

SPECIFICATIONS & APPLICATION HANDBOOK Edition 30

December 2009



Please note that the performance information included in this book is for estimation purposes only. It is based on information that Komatsu Ltd. has but actual figures will vary with the operating conditions, including material characteristics, site conditions, operator efficiency, etc. Neither Komatsu Ltd. nor its dealers will guarantee that the machines will perform as estimated.

Materials and specifications are subject to change without notice.

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KOMATSU

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PREFACE

This handbook refers to machine specifications, productivity and owning & operation cost for construction equipment sold by Komatsu. It serves as a guide for the following cases:

- * Estimation of productivity for each machine
- * Estimation of owning & operating costs for each machine
- * Selection of machines for purchasing construction equipment
- * Selection of machines for performing construction job

The performance of a machine is determined by its production and operating costs. Important machine factors that influence production includes the horsepower, operating weight, capacity of work equipment, traveling speed and types of mechanical, hydraulic and electrical systems. They are referred to in the related section in the handbook. Some of the significant elements that comprise the operating cost factors are the consumption of fuel and lubricants, the service life of tires and undercarriage and the repair cost of components. These expenditures are discussed in the section entitled Owning & Operating Costs.

The data and tables in the handbook are based on Komatsu's bench and field tests, computer analysis and many years of experience. We continuously conduct tests to improve the reliability of the data. However, because of the complexity of factors influencing production costs and the deviations that may occur during the preparation of data, Komatsu does not guarantee that the data is exact and that the performance shown in the handbook is always obtainable with the given job conditions.

The basic performance data in the handbook are the values when machines are used at ideal efficiency. As performance varies with operator's skill, ground and weather conditions, etc., in reality, the basic data needs to be modified by using the various factors included in the handbook, resulting in different figures depending on the selection of these factors. Owning and operating cost also varies depending upon the machine usage, and the calculation result differs by what job condition and factors are applied for the calculation. Therefore, it should be understood that the calculated figures do not always completely match the actual measured data. Nevertheless, handbook users will be able to make proper approximate calculations based on the data given in the handbook, their work experience and knowledge of local conditions.

This handbook is revised yearly. The data in the handbook is accurate at the time of printing; however, Komatsu may make changes in the specifications and materials without notice. Changes are made because of Komatsu's fundamental program of conducting continuous improvements on its products. Therefore, when you need the most updated information or specifications, obtain the latest catalogs through your distributor.

This handbook contains machine models produced in the various areas in the world. Specifications may vary depending upon production location; all models are not always available everywhere in the world.

The final objective for an owner of construction equipment is to perform the necessary construction job with the best efficiency and safety. It is desirable for an owner to understand the job efficiency factors and the machine use factors before utilizing this handbook.

They are as follows:

1. Job efficiency factors

1) Skill of operator

In order to obtain high productivity, the skill of the operator needs to match the performance of the machine. It is essential that the operator has the knowledge and skill to obtain high productivity from the machine.

Therefore, operators should be given education and training about machine operation, construction job operations and safety. The operator must read and understand the operator's manual. The operator must also read and understand the safety manual of the applicable manufacturers association in each area (AEM in USA, CECE in Europe, etc). The employer should assess the skill of each operator and assign the operator to an appropriate job. The operator should be given clear job instruction.

2) Selection of type of machine and specification

The contractor should select the kind, size and specification of machine that can obtain the optimum job efficiency. The contractor can use his past results and experience to select the most appropriate machine. If the contractor is uncertain about the proper machine selection, it is recommended that the contractor consult with the Komatsu distributor or the Komatsu application engineer. They have abundant information and experience and can provide valuable assistance in machine selection.

3) Selection of construction method

To attain the job objective, the contractor must select the proper method of construction or process. The contractor can choose the optimal method of construction and the optimal process by past actual result or experience. If the contractor is uncertain about the selection, it is recommended that the contractor consult a Komatsu application engineer. Komatsu has a program called OFR (Optimum Fleet Recommendation), which provides suitable recommendations for optimal method of construction and process.

4) Choice and use of attachments and optional parts

Care should be taken in the selection of attachments or optional parts since they affect work efficiency and safety. Typical attachments and optional parts are shown in this handbook. Komatsu has additional attachments and optional parts. You can consult with the distributor, salesman, or Komatsu application engineer for additional details.

5) Use of special application machine

This handbook includes relatively popular special application machines (modified machine for special application), but does not include every special application machine because of the limited number of pages. Komatsu will evaluate individual special application work which is not shown in this handbook and may create a special application machine to meet job requirements. You can consult with the distributor, salesman, or application engineer of Komatsu.

2. Machine use factors

1) Operator's protection from hazard

The employer has a duty to secure the safety of operators. They must not start work until they understand the machines to be used, method of construction and job site, and until they check and confirm that the operator is protected from all potential hazards.

- If an additional protection device is needed on the machine for operator protection, the Komatsu distributor should be consulted.
- The owner of a machine for the purpose of raising productivity and durability may want to modify a machine. In such a case, any modifications and attachment installations that may endanger the operator must not be carried out. For example, modifications that hinder an operator's field of view, hinder operation of a machine, hinder access to a machine or worsen the function of brake, steering and ROPS, stability of a machine, etc., must not be performed.

2) Protection from breakdown or lessening of machine life

In order to lower O&O cost, it is important to lengthen the economical life of a machine while reducing machine failure. Therefore, the owner of a machine needs to address the following items:

- Understand the method of construction and the condition of job site, and choose the type, size, and specification of machine that has ample strength for the job. Komatsu machines are equipped with the adequate strength and structure for typical work. However, when the machine is used in special applications, special strengthening and/or the addition of protection structures may be needed. In such a case, it is recommended that Komatsu should be consulted through the distributor. If the owner of the machine makes modification himself without consulting Komatsu, there are risks of generating problems in the performance, durability and safety of the machine.
- To increase production or durability, the owner of a machine may want to convert a main part of the machine or attachments himself, or may want to put attachments other than a Komatsu design which is procured locally, even if it is not a special application. In such a case, it is recommended that Komatsu be consulted through the distributor. Komatsu will propose through the distributor the proper means to respond to the request of a customer. If the owner of the machine makes modification himself without consulting Komatsu, there are risks of generating problems in the performance, durability and safety of the machine.

3) Prevention of fire

The owner and operator of a construction machine must follow the machine's maintenance guidelines and manage the job so that danger of fire will be minimized. A fire breaks out mainly by leakage of fuel, oil and grease; by electrical shorts caused from fatigue, loosening, or rubbing of electric parts and by ignition from engine high temperature parts contacting combustibles, such as plants and papers.

- The owner of a machine needs to maintain a machine by daily checks so that the causes described above do not exist.
- The operator must confirm by walk-around check before starting the machine that the above-mentioned hazards do not exist. If any problems are found, the machine must not be started until the problems are fixed.
- Equip a machine with a fire extinguisher in preparation for emergency.

4) Consideration of safety around the machine and environment.

Exercise care regarding safety, vibration, noise and flying debris (soil and stone) for the people who work around machines and for the surrounding area before putting a machine into a job site.

- Due to carelessness, the people working around the machine may suffer injury when the machine reverses, turns, and the attachment moves, etc. In order to prevent injuries, Komatsu can offer hazard alarm equipment and hazard detection equipment on its machines and the clothing of people working around the machine. The owner of the machine should evaluate whether the equipment on the machine are enough to cover the job site condition and should equip the machine and the people with additional equipment if needed.
- Komatsu sells machines that conform to the surrounding noise level regulation in the area sold. However, when it is necessary to have lower noise than a regulation level of the area, it is possible to reduce noise levels by modifying the machine. You are requested to consult Komatsu through its distributor.
- It is quite difficult to prevent the vibration of the land and flying debris by modification of the machine. Such problems should be solved by changing the work condition.

5) Compliance with regulations

Regulations pertaining to safety, noise, engine exhaust gas, etc. vary in different areas of the world. The owner of a machine has to recognize the regulations about the safety and environment legislated by each country and local government against construction machines, and has to use machines that conform to the applicable regulations. Although Komatsu supplies machines that conform to each regulation in the world, it is necessary to confirm through the Komatsu distributor if the machine conforms to all regulations in that area, before putting the machine to work.

Occasionally, a machine manufactured for another area in the world may be moved and relocated without Komatsu's knowledge. In this case, the machine may not have the specifications or structure to satisfy regulations of the area where the machine is located. In such a case, check in advance to determine if it conforms to the regulation of the area. If it does not conform, the owner must either make the necessary modifications to the machine to make it conform, or not operate the machine there.

6) Appropriate maintenance and management of a machine

The most important factor to maximize machine operation is performing maintenance and management of the machine correctly. It is essential to perform daily check & maintenance and periodic inspection & maintenance procedures shown in the operation manual of each machine.

● **BULLDOZERS**

Horsepower 32.4 to 858 kW (43.4 to 1150 HP)



D575A-3 SD



D575A-3



D475ASD-5E0



D475A-5E0



D375A-6 D375A-5
D375A-6R D375A-5R



D275A-5
D275AX-5E0
D275A-5R



D155A-5
D155A-6
D155AX-6



D85EX-15E0
D85EX-15R



D85ESS-2
D85ESS-2A



D68ESS-12



D65E-12
D65EX-16
D65WX-16



D61EX-15E0



D51EX-22



D39EX-22



D37EX-22



D31EX-22



D21A-8E0

● **SWAMP BULLDOZERS**

Horsepower 32.4 to 168 kW (43.4 to 225 HP)



D85PX-15E0
D85PX-15R



D65P-12
D65PX-16



D61PX-15E0



D51PX-22



D39PX-22



D37PX-22



D31PX-22



D21P-8E0

● **PIPELAYERS**

Horsepower 168 to 269 kW (225 to 360 HP)



D355C-3



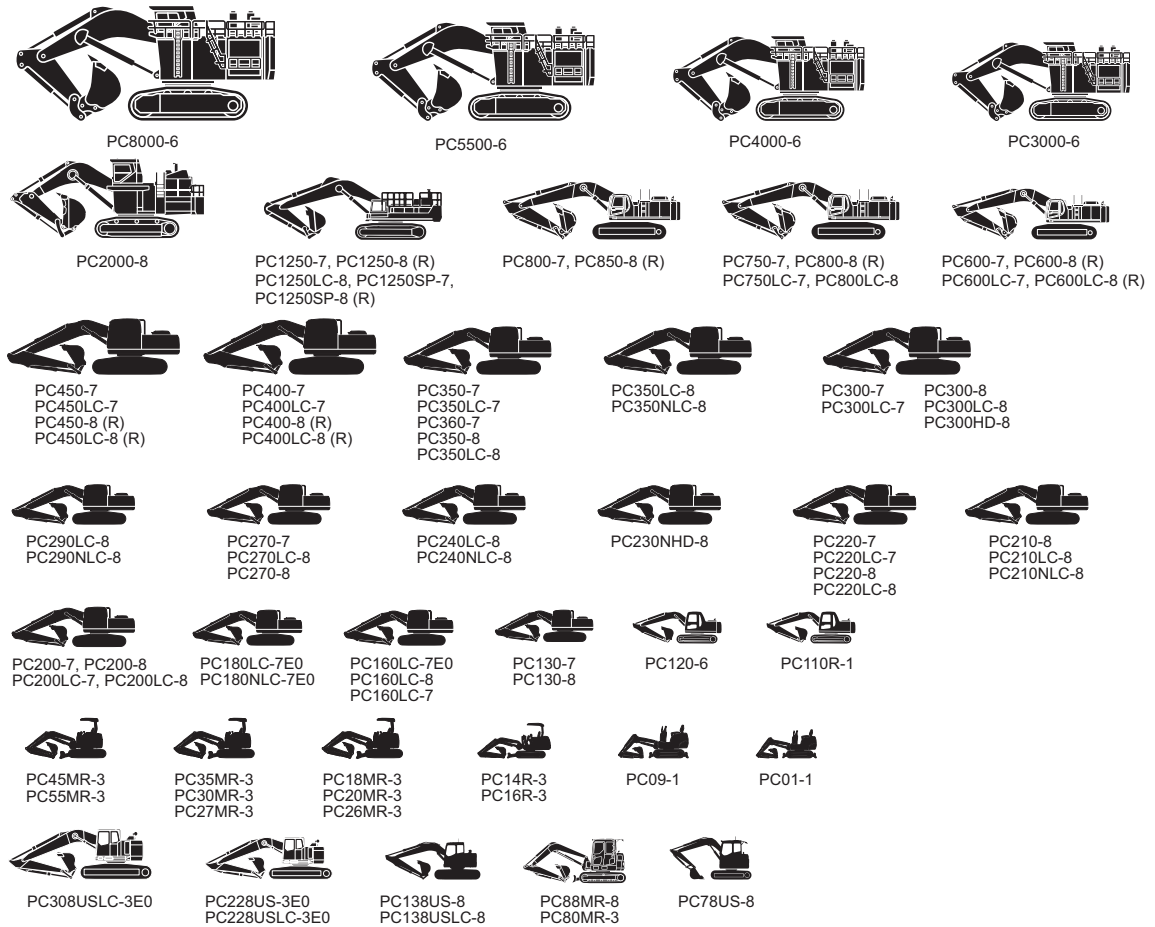
D155C-1



D85C-21

● **HYDRAULIC EXCAVATORS (Back hoe)**

Operating weight 380 to approx. 744,000 kg (840 to approx. 1,640,200 lb)



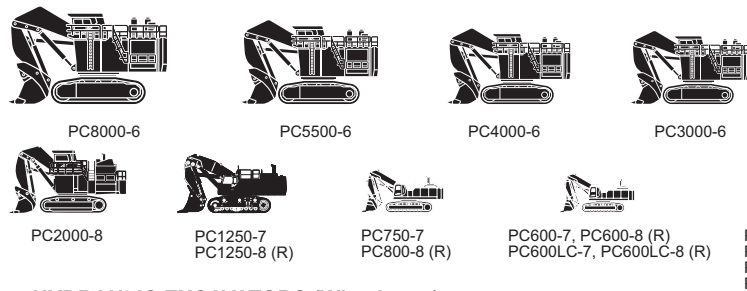
● **MSRX (Minimal swing radius excavator)**

Operating weight 5,290 to 7,960 kg (11,670 to 17,550 lb)



● **HYDRAULIC EXCAVATORS (Loading shovel)**

Operating weight 43,100 to approx. 725,000 kg (95,020 to approx. 1,598,300 lb)



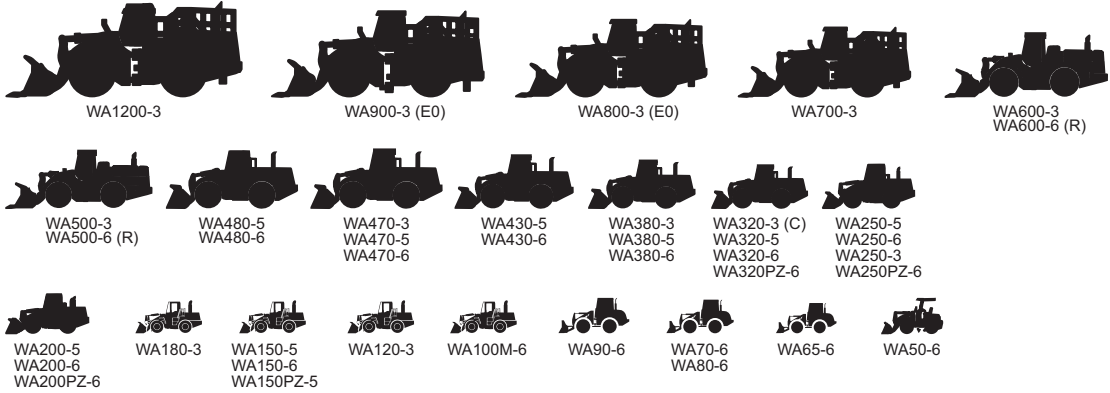
● **HYDRAULIC EXCAVATORS (Wheel type)**

Operating weight 8,620 to 22,390 kg (19,000 to 49,360 lb)



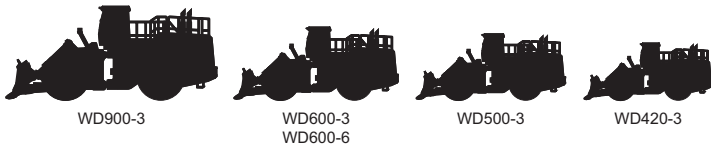
● **WHEEL LOADERS**

Bucket capacity 0.6 to 20 m³ (0.8 to 26.2 yd³)
(C) indicates custom series.



● **WHEEL DOZERS**

Horsepower 338 to 853 kW (454 to 853 HP)



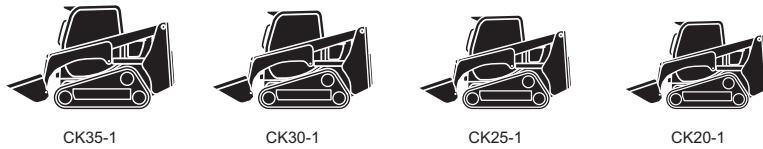
● **SKID STEER LOADERS**

Bucket capacity 0.16 to 0.45 m³ (0.21 to 0.59 yd³)



● **COMPACT TRACK LOADERS**

Bucket capacity 0.4 to 0.45 m³ (0.52 to 0.59 yd³)



● **BACKHOE LOADERS**

Bucket capacity 0.95 to 1.03 m³ (1.25 to 1.35 yd³)

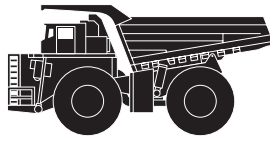


● **RIGID DUMP TRUCKS**

Hauling capacity 25 to 290 ton (28 to 320 US ton)



960E



930E-4
930E-4SE



860E-1K



830E-AC



730E



HD1500-7



HD785-5
HD785-7



HD605-7 (E0)
HD605-7R



HD465-7 (E0)
HD465-7R



HD405-6
HD405-7
HD405-7R



HD325-6
HD325-7
HD325-7R



HD255-5

● **ARTICULATED DUMP TRUCKS**

Hauling capacity 24 to 37 ton (26.5 to 40.0 US ton)



HM400-1
HM400-2
HM400-2R



HM350-1
HM350-2
HM350-2R



HM300-1
HM300-2
HM300-2R



HM250-2

● **CRAWLER CARRIERS**

Hauling capacity 6 to 11 ton (6.6 to 12.1 US ton)



CD110R-2



CD60R-1

● **MOTOR GRADERS**

Horsepower 93 to 209 kW (125 to 280 HP)



GD825A-2



GD705A-4



GD675-3A
GD675-3E0
GD675-5



GD661A-1



GD655-3A
GD655-3E0
GD655-5



GD623A-1



GD611A-1



GD555-3A
GD555-3C
GD555-5



GD521A-1



GD511A-1

● **VIBRATORY ROLLERS**

Operating weight 2,440 to 4,000 kg (5,380 to 8,820 lb)



JV40CW-6



JV40DW-6



JV25CW-6



JV25DW-6

● **TIRE ROLLER**

Operating weight 3,000 kg (6,610 lb)



JW30-2

● **HARVESTERS**

Horsepower 150 to 207 kW (204 to 277 HP)



941



931



911



901 6WD/4WD
901TX

● **FORWARDERS**

Max. permissible load 9 to 18 ton (9.9 to 19.8 U.S. ton)



890 8WD/4WD



860 8WD/6WD



840 8WD/6WD
840TX



830

● **TRACKED FELLER BUNCHERS**

Operating weight 20,230 to 37,195 kg (44,600 to 82,000 lb)



475 FXL



450 FXL



445 FXL



430 FX/FXL



415 FX



FX 10

● **MOBILE CRUSHER & RECYCLERS**

Horsepower 54 to 345 HP (40.5 to 257kW)



BR580JG-1



BR380JG-1E0



BR100JG-2



BZ210-1

● **DIESEL GENERATOR SETS**

Rated output 41 to 1,000 kVA (33 to 800 kW)



EGS1200BS-6
EGS1200-6



EGS1050BS-7
EGS1050-7



EGS1000BS-7
EGS1000-7



EGS850BS-6
EGS850-6



EGS760BS-6
EGS760-6



EGS630BS-6
EGS630-6



EGS500BS-6
EGS500-6



EGS380BS-6
EGS380-6



EGS360BS-6
EGS360-6



EGS300BS-6
EGS300-6



EGS240BS-6
EGS240-6



EGS120BS-6
EGS120-6



EGS65BS-6
EGS65-6



EGS45BS-6
EGS45-6

● **ENGINES**

Piston displacement 3.92 to 61.8 ltr (239 to 3771 cu in)



SA12V170E



SA12V140
SDA12V140



SA6D170E
SAA6D170E



S6D140E
SA6D140E
SAA6D140E



6D125E
S6D125E
SA6D125E
SAA6D125E



S6D114E
SA6D114E
SAA6D114E



S6D108E
SA6D108E
SAA6D108E



SAA4D107E
SAA6D107E



6D102E
S6D102E
SA6D102E
SAA6D102E



4D102E
S4D102E
SA4D102E
SAA4D102E



SAA6D95LE



4D95LE
S4D95LE
SAA4D95LE

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■ High productivity

The high-power engine, highly efficient power train, large drawbar pull provided by the conventional undercarriage, and the high performance work equipment provide high productivity.

● Large capacity blade

Large capacity blade, powerful digging force, large up-and-down movement of the blade, and high strength provided by high tensile steel.

● Uniquely designed ripper

The unique linkage design enables the ripper point to draw an ideal locus during cylinder tilting for effective excavation of embedded rocks.

● Automatic lock-up torque converter

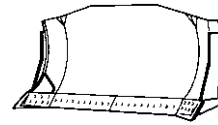
When the lock-up clutch is engaged, the pump and the turbine are virtually connected and the internal power loss of the torque converter is minimized. (D275AX, D375A and D475A)

● Resilient Equalized Undercarriage (REU)

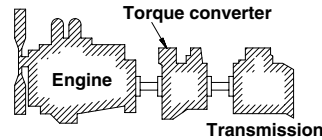
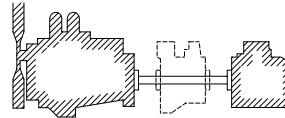
This highly advanced undercarriage system utilizes an X-shape bogie structure with an independent see-saw movement for the track rollers. This allows the shoes to always follow the contour of the ground for excellent traction. The bogies contact the track frame through rubber shock absorber reduces vibration and shock. (D155A-5, D155AX-6 and D575A)

■ Dependable and high-performance components

- Komatsu's diesel engine delivers a strong horsepower and has a direct-injection system for fuel savings and cleaner exhaust.
- The TORQFLOW transmission not only ensures smooth and responsive power shifting, but also makes instant speed and directional changes by a single lever.
- The HYDROSHIFT transmission ensures not only efficient power transmitting ability for reduced fuel costs, but also a single-lever speed control and F/R directional changes for easy operation. (D21)
- Wet, multiple-disc type steering clutches and brakes ensure long service life and eliminate troublesome brake-lining adjustments. (D65, D155A-5, D275A, D375A, D475A and D575A)
- Double reduction final drives feature a large reduction ratio and minimize shocks to the power train components and extend the life of components. [Except D21]
- Lubricated track links: Since the clearance between the link pin and bushing is lubricated, wear and pitch extensions are minimized for extended service life.
- Unique dust seals prevent dust from entering into pin-to-bushing clearance for extended service.
- Floating seals in the idlers and rollers keep dirt out and lubricant in for durable operation.

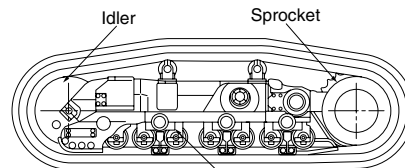


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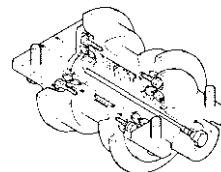
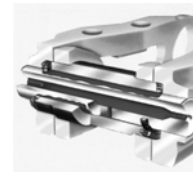
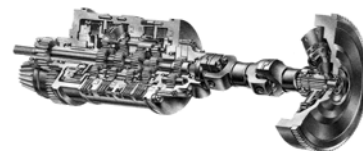
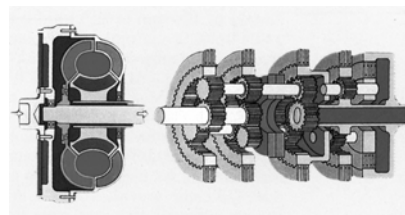
Transmission

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X-bogie system

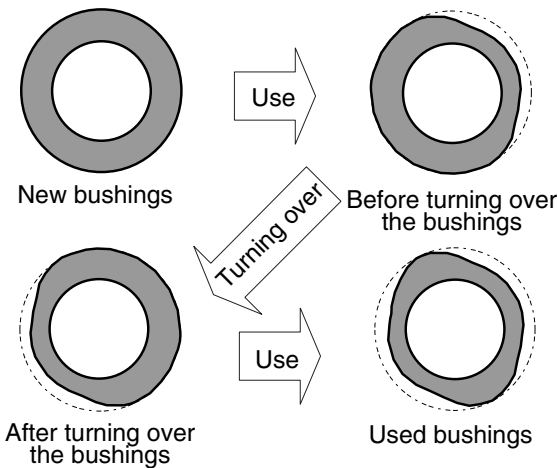
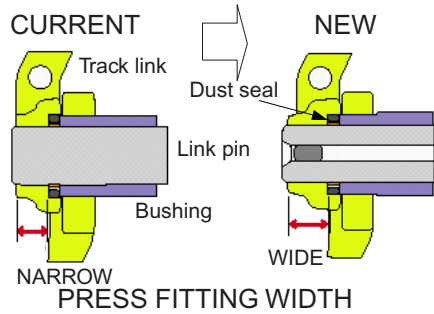
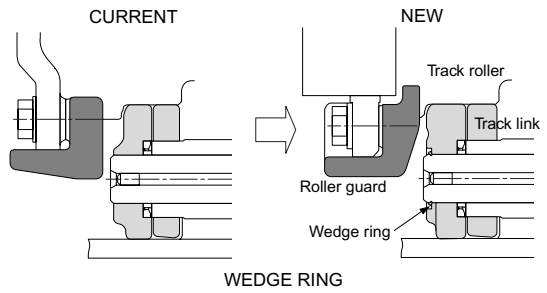
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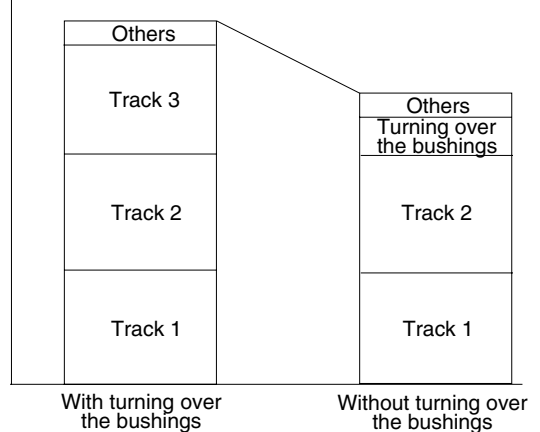
Features

CRAWLER-TYPE TRACTORS

- Reduction of man-hours for turning over the bushings by employment of wedge ring. (Large Class)
- Strengthening of undercarriage by increase of press fitting width of pin. (Small-middle Class)
The most important matters for the undercarriage of a bulldozer are holding of the oil filled in the links and easiness of turning over the bushings. KOMATSU increased the rigidity and abrasion life of the links and lowered the press fitting force of the pins to reduce scuffing when the links are disassembled. As a result, the bushings are turned over extremely easily. It's the link, the repair cost of the undercarriage of a bulldozer is the highest of all. You can reduce the repair cost with the turning over the bushings drastically.

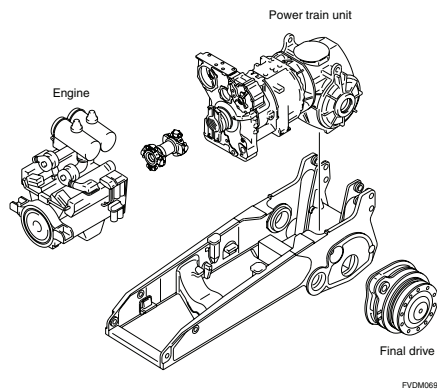


Repair cost of the undercarriage



• Modular design

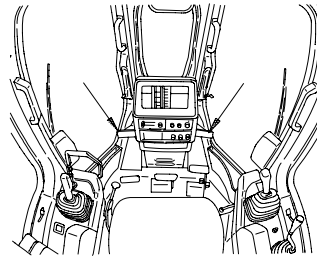
The sealed, modular design allows the power-train components to be mounted / dismantled without any oil spillage, making servicing work clean, smooth and easy. (D61, D65, D155A-5, D155AX, D275, D375A, D475A and D575A)



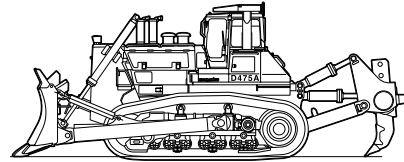
FVDM0692

■ **Easy operation / Operator comfort**

- Operator-oriented arrangement of control levers, pedals, instruments and operator seat.
- Walk-through operator compartment provides easy boarding and exiting.
- Operator seat can be adjusted to provide the most suitable operating posture.
- Steering clutches and brakes are interconnected for easy operation.
- Low profile design assures excellent machine balance and a low center of gravity, making machine dynamically stable and controllable, accounting for operator confidence and comfort.
- Oscillating type equalizer bar suspension absorbs vibrations and shocks for high mobility and comfortable ride even on rugged terrain. [Except D21, D31, D37 and D39]



FLD00456



FZDM0699

• **Wrist-control-type single lever for steering/directional and speed change**

All speed and directional changes, 1st to 3rd forward and reverse, and right-and left-hand steering are controlled with just a joystick single-lever on the left. (D21, D65 and D155A-5/ D155AX)

• **Blade control joystick**

Blade lift, angle and tilt operations are instantly accomplished with a joystick right single-lever. The introduction of this left and right "joystick" system permits simultaneous traveling and working, offering both ease and a shorter cycle time. (D21 and D61)

• **Hydrostatic steering system (HSS)**

Engine power is ideally distributed to the left and right tracks in portion to lever movement each time the machine makes a turn; the outside track moves faster and the inside slower, providing a smooth and powerful turn. (D31/D37/D39-22, D61, D65EX/PX, D85EX/PX, D155AX and D275AX)

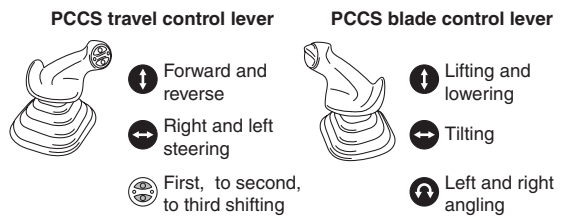
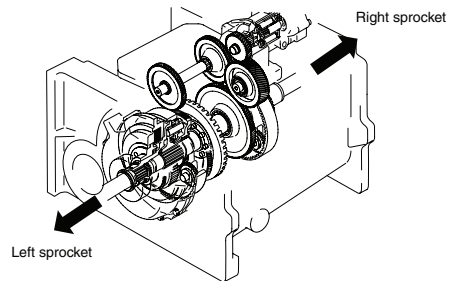
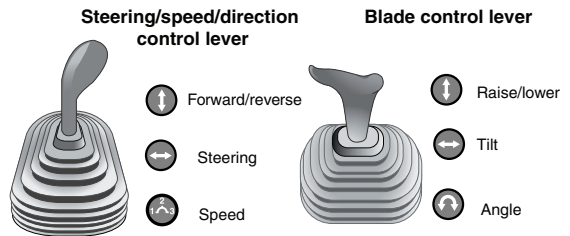
• **Palm Command Control System**

Palm Command Control System (PCCS) joystick controls for all directional movements. Pushing the joystick forward results in forward machine travel, while pulling it rearward reverses the machine.

Simply tilt the joystick to the left to make a left turn. Tilt it to the right for a right turn.

The travel speed is selected by pressing the shift button on the palm lever.

(D31/D37/D39-22, D61, D65EX/PX/WX, D85EX/PX, D155AX-6, D275, D375A, D475A, D475A SD and D575A SD)



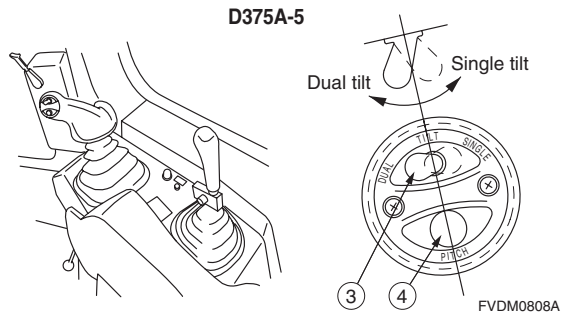
FVBH0229

• **Centralized oil pressure inspection ports**

Oil pressure check ports are centralized on the left side of the chassis to make it easier to carry out inspection and maintenance.

• **Palm Command PPC Controlled Blade Control Joystick**

Blade control joystick uses the PPC (Proportional Pressure Control) valve and palm command joystick the same as travel control joystick. PPC control uses the highly reliable Komatsu hydraulic system enabling superb fine control. (Dual tilt and pitch operation are enabled by depressing switch with a thumb. This is available when optional dual tilt dozer is installed.) (D61, D65EX/PX, D85EX/PX, D155AX-6, D275, D375A, D475A, D475A SD and D575A SD)

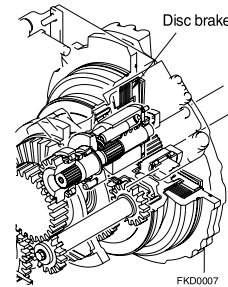
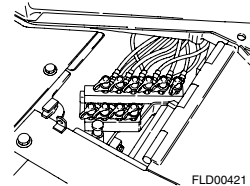


■ **Easy maintenance**

- Bolt-on type sprocket or segmented sprocket teeth for easy in- field replacement. [Except D21]
- Simple maintenance is promoted through adoption of spin-on type fuel and full-flow filters, an air cleaner with an automatic dust evacuator, and others.

• **Maintenance-free, wet, multiple-disc brakes**

To ensure long life and dependability maintenance-free, wet, multiple-disc brakes are utilized. (D61, D65, D85, D155A-5/D155AX, D275, D375A, D475A and D575A)



■ **KomStat Hydrostatic Transmission**

• **3-speed HST**

The D31/D37/D39-22 are equipped with Komatsu's exclusive KomStat Hydrostatic Transmission (HST) consists of dual-path and closed-circuit with two variable displacement piston pumps and two 3-speed variable displacement travel motors. The 3-speed variable capacity travel motors allow the operator to select the optimum speed to match specific jobs.

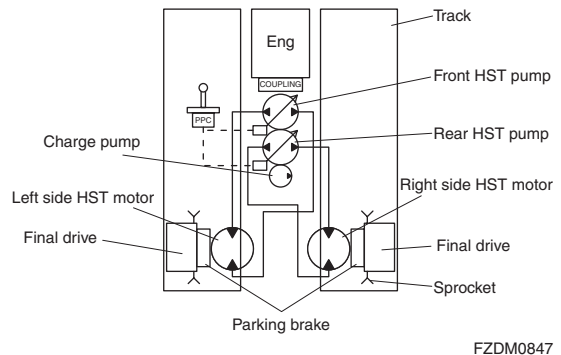
• **Automatic shift between 1st and 2nd speeds**

KomStat shifts automatically between 1st and 2nd speed depending on load or ground conditions to facilitate efficient operation.

• **Intermediate speed selection**

Enables the setting of intermediate speed in each speed range as operator desires or optimum travel speed to match job conditions.

This means, for example, intermediate speeds of 1st speed (4.3 km/h 2.7mph), such as 3.0 km/h 1.9 mph etc., are obtained by using the newly developed PPC valve with friction disc clutch. This contributes to increased job efficiency on fine or rough grading operation with optimum travel speed to match job conditions.



- **HST dynamic brakes**

KomStat uses HST dynamic brakes to ensure safe operation.

Parking brake is wet, multiple-disc type with a unique drag-prevention control to keep hydraulic oil clean.

(D31, D37 and D39)

- **K-Bogie undercarriage system**

K-Bogie undercarriage system retains prior advantages, with new additional features.

Features on K-Bogie Undercarriage System:

- K-bogies oscillate with two fulcrums, and track roller vertical travel is greatly increased. Impact loading on all undercarriage components has been reduced and durability of components is improved since track rollers are always in contact with track link.
- Undercarriage life is improved due to better control of track chain alignment with track rollers.
- Riding comfort is improved by reducing vibration and shock when traveling over rough terrain.
(D155AX-6, D275A, D275AX, D375A-6R and D475A)

- **Auto-shift down function**

Controller monitors engine speed, travel gear and travel speed.

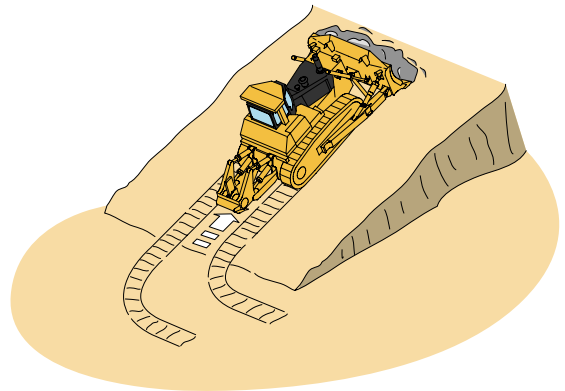
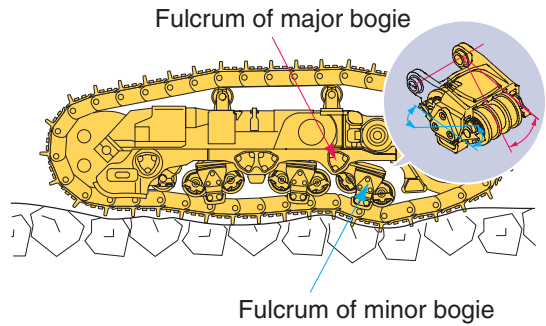
When load is applied and machine travel speed is reduced, the controller automatically downshifts to optimize gear speed to provide high fuel efficiency. This function provides comfortable operation and high productivity without manual downshifting. (This function can be deactivated with cancel switch).

(D275, D375A and D575A SD)

- **Preset travel speed selection function**

Preset travel speed selection function is standard equipment, enabling the operator to select fore and aft travel speed among three preset patterns, F1-R2, F2-R2 and manual shift. When F1-R2 or F2-R2 preset pattern is selected, and travel control joystick moves from forward to reverse direction, the machine travels forward/reverse with F1/R2 or F2/R2 speed automatically. This function reduces gear shifting time during repeated round trip operations.

(D275, D375A and D575A SD)



• **K-Bogie undercarriage system (8-roller, oscillating idler)**

New K-Bogie Undercarriage System combines prior advantages with new additional features.

Current features:

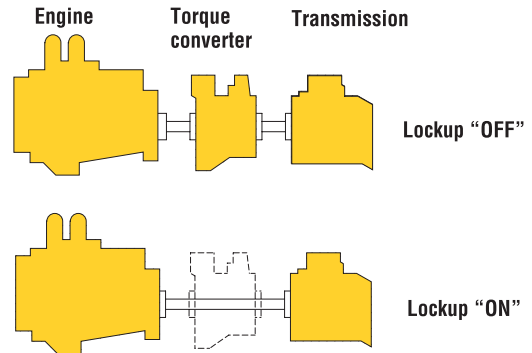
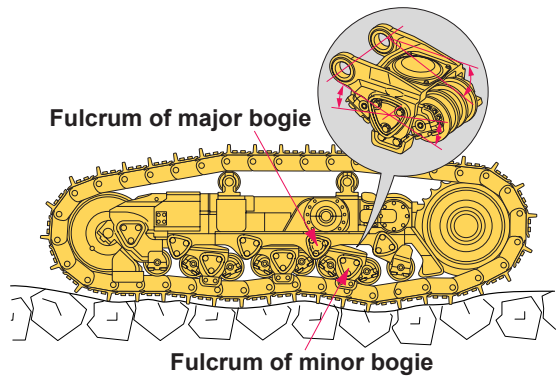
- K-Bogies that oscillate with two fulcrums assure large amount of track roller vertical. Impact load to undercarriage components is minimized and durability of components is improved since track rollers are always in contact with track link.
- Track rollers follow track link movement to extend the undercarriage life.
- Excellent riding comfort is provided due to less vibration and shock when traveling over rough terrain.

Features on new K-Bogie undercarriage system:

- New K-Bogies with front and rear single bogies are utilized providing increased length of track on ground to improve machine stability.
- The oscillating idler and increased sprocket lead angle improve riding comfort when traveling over rough terrain. (D375A-6, D475A-5E0 and D475ASD-5E0)

• **Automatic transmission with lockup torque converter**

A sharp reduction in fuel consumption and greater power train efficiency is achieved by the new automatic gearshift transmission and lock up torque converter. The automatic gearshift transmission selects the optimal gear range depending on the working conditions and load placed on the machine. The means the machine is always operating at maximum efficiency. (Manual gearshift mode is selectable with a switch) (D155AX-6)



■ Ecology Features

- **ecot 3 (EPA Tier 3, EU Stage 3A certified engine)**

Komatsu develops and produces all major components, such as engines, electronics and hydraulic components in house.

With this “Komatsu Technology”, and adding customer feedback, Komatsu is achieving great advancements in technology.

To achieve high levels of productivity and ecology, Komatsu developed the main components with an advanced control system.

The result is a new generation of high performance and environment friendly machines.

- **Fuel efficient electronic controlled engine**

The engine is EPA Tier 3 and EU Stage 3A emission regulation certified. The engine is turbocharged and features Common Rail Injection system (CRI) and air-to-air aftercooling to maximize power, fuel efficiency and emission compliance.

To minimize noise and vibration, the engine is mounted to the main frame with rubber cushions.

- **Hydraulic drive radiator cooling fan**

The engine cooling fan rotation speed is electronically controlled. The fan rotation speed depends on engine coolant and hydraulic oil temperatures, the higher the temperature the higher the fan speed. This system increases fuel efficiency, reduces the operating noise levels and requires less horsepower than belt driven fan.

(D61-15E0, D65-16, D85-15E0, D155AX-6, D275AX-5E0, D375A-6)

Specifications

CRAWLER-TYPE TRACTORS

Item	Model	D21A-8E0	•D31EX-22	•D31EX-22***	•D37EX-22
OPERATING WEIGHT*	kg (lb)	3710 (8,180)	7670 (16,910)	7670 (16,910)	7890 (17,400)
TRACTOR WEIGHT	kg (lb)	3160 (6,970)	6520 (14,370)	6520 (14,370)	6710 (14,800)
HORSEPOWER SAE J1995 Gross ISO9249/SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	32.4 (43.4)/2450	60 (80)/2200 58 (78)/2200 53 (71)/2200	60 (80)/2200 58 (78)/2200 53 (71)/2200	68 (91)/2200 66 (89)/2200 59 (79)/2200
PERFORMANCE:					
Travel speed Forward 1st	km/h (MPH)	2.6 (1.6)	3.4 (2.1)	0 to	3.4 (2.1)
2nd		4.4 (2.7)	5.6 (3.5)	8.5 (5.3)	5.6 (3.5)
3rd		—	8.5 (5.3)	—	8.5 (5.3)
Reverse 1st		3.3 (2.1)	4.1 (2.5)	0 to	4.1 (2.5)
2nd		5.6 (3.5)	6.5 (4.0)	8.5 (5.3)	6.5 (4.0)
3rd		—	8.5 (5.3)	—	8.5 (5.3)
Max. drawbar pull	kg (lb/kN)	4520 (9,970/44.3)	15300 (33,730/150)	15300 (33,730/150)	15300 (33,730/150)
DIMENSIONS:					
Overall length (tractor)*5	mm (ft.in)	2405 (7'11")	3220 (10'7")	3220 (10'7")	3185 (10'5")
Overall length*	mm (ft.in)	3250 (10'8")	4175 (13'8")	4175 (13'8")	4190 (13'9")
Overall width (w/o trunnion)	mm (ft.in)	1610 (5'3")	1910 (6'3")	1910 (6'3")	1910 (6'3")
Overall width (with blade)*	mm (ft.in)	2170 (7'1")	2550 (8'4")	2550 (8'4")	2710 (8'11")
Overall height (tractor)**	mm (ft.in)	1785 (5'10")	2760 (9'1")*6	2760 (9'1")*6	2760 (9'1")*6
Overall height*	mm (ft.in)	2135 (7'0")	2760 (9'1")	2760 (9'1")	2760 (9'1")
Track gauge	mm (ft.in)	1310 (4'4")	1510 (4'11")	1510 (4'11")	1510 (4'11")
Length of track on ground	mm (ft.in)	1685 (5'6")	2185 (7'2")	2185 (7'2")	2240 (7'4")
ENGINE:					
Model		KOMATSU 4D94LE-2	KOMATSU SAA4D95LE-5	KOMATSU SAA4D95LE-5	KOMATSU SAA4D95LE-5
No. of cylinders- bore × stroke	mm (in)	4-94 × 110 (3.70 × 4.33)	4-95 × 115 (3.74 × 4.53)	4-95 × 115 (3.74 × 4.53)	4-95 × 115 (3.74 × 4.53)
Piston displacement	ltr. (cu.in)	3.053 (186)	3.26 (199)	3.26 (199)	3.26 (199)
UNDERCARRIAGE:					
No. of rollers (carrier/track)		1/5	1/6	1/6	1/6
Width of standard shoe	mm (in)	300 (11.8)	400 (15.7)	400 (15.7)	400 (15.7)
FUEL TANK CAPACITY (Refilled):	ltr. (U.S.Gal)	60 (15.9)	195 (51.5)	195 (51.5)	195 (51.5)
*) Spec conditions: Bulldozer Rear attachment Upper attachment		PAT — —	PAT — ROPS canopy	PAT — ROPS canopy	PAT — ROPS canopy

Item	Model	•D37EX-22***	•D39EX-22	•D39EX-22***	•D51EX-22
OPERATING WEIGHT*	kg (lb)	7890 (17,400)	9040 (19,930)	8520 (18,780)	12620 (28040)
TRACTOR WEIGHT	kg (lb)	6710 (14,800)	7800 (17,200)	6950 (15,320)	11200 (24740)
HORSEPOWER SAE J1995 Gross ISO9249/SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	68 (91)/2200 66 (89)/2200 59 (79)/2200	79.9 (107)/2200 79 (105)/2200 71 (95)/2200	71 (95)/2200	99 (133)/2200 97 (130)/2200 90 (120)/2200
PERFORMANCE:					
Travel speed Forward 1st	km/h (MPH)	0 to	3.4 (2.1)	0 to	3.4 (2.1)
2nd		8.5 (5.3)	5.6 (3.5)	8.5 (5.3)	5.6 (3.5)
3rd		—	8.5 (5.3)	—	9.0 (5.6)
Reverse 1st		0 to	4.1 (2.5)	0 to	4.1 (2.5)
2nd		8.5 (5.3)	6.5 (4.1)	8.5 (5.3)	6.5 (4.0)
3rd		—	8.5 (5.3)	—	9.0 (5.6)
Max. drawbar pull	kg (lb/kN)	15300 (33,730/150)	14800 (32,630/145)	14800 (32,630/145)	—
DIMENSIONS:					
Overall length (tractor)*5	mm (ft.in)	3185 (10'5")	3295 (10'10")	3295 (10'10")	3665 (12'0")
Overall length*	mm (ft.in)	4190 (13'9")	4335 (14'3")	4335 (14'3")	4800 (15'8")
Overall width (w/o trunnion)	mm (ft.in)	1910 (6'3")	2110 (6'11")	2110 (6'11")	2300 (7'6")
Overall width (with blade)*	mm (ft.in)	2710 (8'11")	2710 (8'11")	2710 (8'11")	3045 (10'0")
Overall height (tractor)**	mm (ft.in)	2760 (9'1")*6	2825 (9'3")*6	2825 (9'3")*6	3002 (9'10")*6
Overall height*	mm (ft.in)	2760 (9'1")	2825 (9'3")	2825 (9'3")	3182 (10'5")
Track gauge	mm (ft.in)	1510 (4'11")	1650 (5'5")	1650 (5'5")	1790 (5'10")
Length of track on ground	mm (ft.in)	2240 (7'4")	2360 (7'9")	2360 (7'9")	2736 (9'0")
ENGINE:					
Model		KOMATSU SAA4D95LE-5	KOMATSU SAA4D107E-1	KOMATSU SAA4D107E-1	KOMATSU SAA6D107E-1
No. of cylinders- bore × stroke	mm (in)	4-95 × 115 (3.74 × 4.53)	4-107 × 124 (4.21 × 4.88)	4-107 × 124 (4.21 × 4.88)	4-107 × 124 (4.21 × 4.88)
Piston displacement	ltr. (cu.in)	3.26 (199)	4.46 (272)	4.46 (272)	6.69 (408)
UNDERCARRIAGE:					
No. of rollers (carrier/track)		1/6	1/6	1/6	2/7
Width of standard shoe	mm (in)	400 (15.7)	460 (18.1)	460 (18.1)	510 (20.1)
FUEL TANK CAPACITY (Refilled):	ltr. (U.S.Gal)	195 (51.5)	195 (51.5)	195 (51.5)	270 (71)
*) Spec conditions: Bulldozer Rear attachment Upper attachment		PAT — ROPS canopy	PAT — ROPS canopy	PAT — ROPS canopy	PAT — ROPS cab

** : Without canopy, exhaust pipe, pre-cleaner cap or other easily removed encumbrances.

*** : With variable travel speed mode

*4 : Long track spec. *5 : With hitch

*6 : To top of ROPS canopy or cab • : Tier 3 and Stage 3A model

Specifications

CRAWLER-TYPE TRACTORS

Item	Model	•D61EX-15E0	•D61EX-15E0*4	D65E-12	•D65EX-16
OPERATING WEIGHT*	kg (lb)	16710 (36,840)	17310 (38,160)	19125 (42,160)	19150 (43,010)
TRACTOR WEIGHT	kg (lb)	13920 (30,690)	14520 (32,010)	15620 (34,440)	17120 (37,740)
HORSEPOWER SAE J1995 Gross ISO9249/SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	127 (170)/1850 125 (168)/1850 116 (155)/1850	127 (170)/1850 125 (168)/1850 116 (155)/1850	135 (180)/1950	155 (207)/1950 153 (205)/1950 139 (186)/1950
PERFORMANCE:					
Travel speed Forward 1st 2nd 3rd Reverse 1st 2nd 3rd	km/h (MPH)	3.2 (2.0) 5.6 (3.5) 8.7 (5.4) 4.3 (2.7) 7.2 (4.5) 11.0 (6.8)	3.2 (2.0) 5.6 (3.5) 8.7 (5.4) 4.3 (2.7) 7.2 (4.5) 11.0 (6.8)	3.9 (2.4) 6.8 (4.2) 10.6 (6.6) 5.0 (3.1) 8.6 (5.3) 13.4 (8.3)	3.6 (2.2) 5.5 (3.4) 11.2 (7.0) 4.4 (2.7) 6.6 (4.1) 13.4 (8.3)
Max. drawbar pull	kg (lb/kN)	—	—	—	—
DIMENSIONS:					
Overall length (tractor)	mm (ft.in)	3920 (12'10")	4160 (13'8")	4365 (14'4")	4335 (14'3")
Overall length*	mm (ft.in)	5030 (16'6")	5450 (17'11")	5440 (17'10")	5490 (18'0")
Overall width (w/o trunnion)	mm (ft.in)	2500 (8'2")	2500 (8'2")	2390 (7'10")	2390 (7'10")
Overall width (with blade)*	mm (ft.in)	3275 (10'9")	3275 (10'9")	3460 (11'4")	3410 (11'2")
Overall height (tractor)**	mm (ft.in)	2270 (7'5")	2270 (7'5")	2330 (7'8")	3155 (10'4")*5
Overall height*	mm (ft.in)	3150 (10'4")	3150 (10'4")	3165 (10'5")	3155 (10'4")
Track gauge	mm (ft.in)	1900 (6'3")	1900 (6'3")	1880 (6'2")	1880 (6'2")
Length of track on ground	mm (ft.in)	2600 (8'6")	3170 (10'5")	2675 (8'9")	2980 (9'9")
ENGINE:					
Model		KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	KOMATSU 6D125E-2	KOMATSU SAA6D114E-3
No. of cylinders- bore × stroke	mm (in)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-125 × 150 (4.92 × 5.91)	6-114 × 135 (4.49 × 5.31)
Piston displacement	ltr. (cu.in)	6.69 (408)	6.69 (408)	11.04 (674)	8.27 (505)
UNDERCARRIAGE:					
No. of rollers (carrier/track)		2/7	2/8	2/7	2/7
Width of standard shoe	mm (in)	600 (23.6)	600 (23.6)	510 (20.1)	510 (20.0)
FUEL TANK CAPACITY (Refilled):	ltr. (U.S.Gal)	390 (103)	390 (103)	406 (107)	415 (109.6)
*) Spec conditions: Bulldozer Rear attachment Upper attachment		PAT — ROPS canopy	PAT — ROPS canopy	Semi-U tilt — ROPS canopy	SIGMADOZER — ROPS cab

Item	Model	•D65EX-16*4	•D65WX-16	•D65WX-16	D68ESS-12***
OPERATING WEIGHT*	kg (lb)	20990 (46,270)	20360 (44,880)	21890 (48,260)	18800 (41,500)
TRACTOR WEIGHT	kg (lb)	18030 (39,750)	17860 (39,370)	18900 (41,670)	14280 (31,490)
HORSEPOWER SAE J1995 Gross ISO9249/SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	154 (207)/1950 153 (205)/1950 139 (186)/1950	155 (207)/1950 153 (205)/1950 139 (186)/1950	155 (207)/1950 153 (205)/1950 139 (186)/1950	116 (155)/1850
PERFORMANCE:					
Travel speed Forward 1st 2nd 3rd Reverse 1st 2nd 3rd	km/h (MPH)	3.6 (2.2) 5.5 (3.4) 11.2 (7.0) 4.4 (2.7) 6.6 (4.1) 13.4 (8.3)	3.6 (2.2) 5.5 (3.4) 11.2 (7.0) 4.4 (2.7) 6.6 (4.1) 13.4 (8.3)	3.6 (2.2) 5.5 (3.4) 11.2 (7.0) 4.4 (2.7) 6.6 (4.1) 13.4 (8.3)	3.4 (2.1) 5.8 (3.6) 9.0 (6.0) 4.4 (2.7) 7.6 (4.7) 11.3 (7.0)
Max. drawbar pull	kg (lb/kN)	—	—	—	—
DIMENSIONS:					
Overall length (tractor)	mm (ft.in)	4335 (14'3")	4335 (14'3")	4335 (14'3")	4100 (13'5")
Overall length*	mm (ft.in)	5790 (19'0")	5500 (18'1")	5790 (19'0")	6120 (20'1")
Overall width (w/o trunnion)	mm (ft.in)	2610 (8'7")	2810 (9'3")	2990 (9'10")	2535 (8'4")
Overall width (with blade)*	mm (ft.in)	3870 (12'8")	3580 (11'9")	4010 (13'2")	3275 (10'9")
Overall height (tractor)**	mm (ft.in)	3155 (10'4")*5	3155 (10'4")*5	3155 (10'4")*5	2305 (7'7")
Overall height*	mm (ft.in)	3155 (10'4")	3155 (10'4")	3155 (10'4")	3135 (10'3")
Track gauge	mm (ft.in)	2050 (6'9")	2050 (6'9")	2230 (7'4")	1925 (6'4")
Length of track on ground	mm (ft.in)	2980 (9'9")	2980 (9'9")	2980 (9'9")	2930 (9'7")
ENGINE:					
Model		KOMATSU SAA6D114E-3	KOMATSU SAA6D114E-3	KOMATSU SAA6D114E-3	KOMATSU S6D114E
No. of cylinders- bore × stroke	mm (in)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)	4-114 × 135 (4.49 × 5.31)
Piston displacement	ltr. (cu.in)	8.27 (505)	8.27 (505)	8.27 (505)	8.27 (505)
UNDERCARRIAGE:					
No. of rollers (carrier/track)		2/7	2/7	2/7	2/6
Width of standard shoe	mm (in)	510 (20.0)	760 (30)	760 (30)	610 (24)
FUEL TANK CAPACITY (Refilled):	ltr. (U.S.Gal)	415 (109.6)	415 (109.6)	415 (109.6)	315 (93.3)
*) Spec conditions: Bulldozer Rear attachment Upper attachment		PAT — ROPS cab	SIGMADOZER — ROPS cab	PAT — ROPS cab	PAT Winch Sweep canopy

** : Without canopy or cab, exhaust pipe, pre-cleaner cap or other easily removed encumbrances.

*** : Indonesia source

*4 : Long track spec. *5 : To top of ROPS cab

*6 : For USA

• : Tier 3 and Stage 3A model

Specifications

CRAWLER-TYPE TRACTORS

Item	Model	D85ESS-2***	D85ESS-2A	*D85EX-15E0	D85EX-15R
OPERATING WEIGHT*	kg (lb)	21490 (47,380)	20670 (45,580)	28100 (61,950)	28000 (61,730)
TRACTOR WEIGHT	kg (lb)	15740 (34,700)	15420 (34,000)	21220 (46,780)	21120 (46,560)
HORSEPOWER SAE J1995 Gross ISO9249/SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	161 (215)/1950	149 (200)/1950	199 (266)/1900 197 (264)/1900 179 (240)/1900	199 (266)/1900 197 (264)/1900 179 (240)/1900
PERFORMANCE:					
Travel speed Forward 1st	km/h (MPH)	3.9 (2.4)	3.9 (2.4)	3.3 (2.1)	3.3 (2.1)
2nd		6.8 (4.2)	6.8 (4.2)	6.1 (3.8)	6.1 (3.8)
3rd		10.6 (6.6)	10.6 (6.6)	10.1 (6.3)	10.1 (6.3)
Reverse 1st		5.0 (3.1)	5.0 (3.1)		4.4 (2.7)
2nd		8.6 (5.3)	8.6 (5.3)		8.0 (5.0)
3rd		13.4 (8.3)	13.4 (8.3)	13.0 (8.1)	13.0 (8.1)
Max. drawbar pull	kg (lb/kN)	—	—	—	—
DIMENSIONS:					
Overall length (tractor)	mm (ft.in)	4135 (13'7")	4150 (13'7")	5035 (16'6")	5035 (16'6")
Overall length*	mm (ft.in)	5930 (19'5")	7150 (23'6")	7255 (23'10")	7255 (23'10")
Overall width (w/o trunnion)	mm (ft.in)	2660 (8'9")	2560 (8'5")	2560 (8'5")	2560 (8'5")
Overall width (with blade)*	mm (ft.in)	4370 (14'4")	4370 (14'4")	3635 (11'11")	3635 (11'11")
Overall height (tractor)**	mm (ft.in)	2375 (7'10")	2375 (7'10")	3163 (10'5")*4	3163 (10'5")*4
Overall height*	mm (ft.in)	2560 (8'5")	3160 (10'4")	3330 (10'11")	3324 (10'11")
Track gauge	mm (ft.in)	2050 (6'9")	2050 (6'9")	2000 (6'7")	2000 (6'7")
Length of track on ground	mm (ft.in)	2980 (9'9")	2980 (9'9")	3050 (10')	3050 (10')
ENGINE:					
Model		KOMATSU S6D125-2	KOMATSU S6D125E-2	KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-5
No. of cylinders- bore × stroke	mm (in)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)
Piston displacement	ltr. (cu.in)	11.04 (674)	11.04 (674)	11.04 (674)	11.04 (674)
UNDERCARRIAGE:					
No. of rollers (carrier/track)		2/8	2/8	2/7	2/7
Width of standard shoe	mm (in)	610 (24.0)	510 (20.1)	560 (22)	560 (22)
FUEL TANK CAPACITY (Refilled):	ltr. (U.S.Gal)	407 (107.5)	406 (107)	490 (129)	490 (129)
*) Spec conditions: Bulldozer Rear attachment Upper attachment		Angledozer Winch Sweep canopy	Angledozer Multi-shank ripper Canopy	Semi-U tilt Multi-shank ripper Steel cab, ROPS	Semi-U tilt Multi-shank ripper Steel cab, ROPS

Item	Model	D155A-5	D155A-6	*D155AX-6	D275A-5
OPERATING WEIGHT*	kg (lb)	38700 (85,320)	41700 (91,930)	39500 (87,100)	49850 (109,900)
TRACTOR WEIGHT	kg (lb)	27900 (61,510)	32300 (71,200)	31000 (68,350)	37680 (83,070)
HORSEPOWER SAE J1995 Gross ISO9249/SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	225 (302)/1900	268 (360)/1900 264 (354)/1900 239 (320)/1900	268 (360)/1900 264 (354)/1900 239 (320)/1900	306 (410)/2000
PERFORMANCE:					
Travel speed Forward 1st	km/h (MPH)	3.7 (2.3)	3.9 (2.4)	3.8 (2.4)	3.8 (2.4)
2nd		6.7 (4.2)	5.7 (3.5)	5.6 (3.5)	6.7 (4.2)
3rd		11.0 (6.8)	11.4 (7.1)	11.6 (7.2)	11.2 (7.0)
Reverse 1st		5.0 (3.1)	4.7 (2.9)		4.9 (3.0)
2nd		8.2 (5.1)	6.8 (4.2)		8.7 (5.4)
3rd		13.9 (8.6)	13.7 (8.5)	14.0 (8.7)	14.9 (9.3)
Max. drawbar pull	kg (lb/kN)	—	—	—	—
DIMENSIONS:					
Overall length (tractor)	mm (ft.in)	4975 (16'4")	5030 (16'6")	4875 (16'0")	5255 (17'3")
Overall length*	mm (ft.in)	8155 (26'9")	8680 (28'6")	8225 (27')	9290 (30'6")
Overall width (w/o trunnion)	mm (ft.in)	2695 (8'10")	2765 (9'1")	2765 (9'1")	2925 (9'7")
Overall width (with blade)*	mm (ft.in)	3955 (13'0")	4130 (13'7")	4060 (13'4")	4300 (14'1")
Overall height (tractor)**	mm (ft.in)	2590 (8'6")	3395 (11'2")	2680 (8'10")	3160 (10'4")
Overall height*	mm (ft.in)	3500 (11'6")	3510 (11'6")	3395 (11'2")	3985 (13'1")
Track gauge	mm (ft.in)	2100 (6'11")	2140 (7'0")	2140 (7')	2260 (7'5")
Length of track on ground	mm (ft.in)	3210 (10'6")	3150 (10'4")	3275 (10'9")	3480 (11'5")
ENGINE:					
Model		KOMATSU SAA6D140E-2	KOMATSU SAA6D140E-5	KOMATSU SAA6D140E-5	KOMATSU SDA6D140E-3
No. of cylinders- bore × stroke	mm (in)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)
Piston displacement	ltr. (cu.in)	15.24 (930)	15.24 (930)	15.24 (930)	15.24 (930)
UNDERCARRIAGE:					
No. of rollers (carrier/track)		2/6	2/7	2/7	2/7
Width of standard shoe	mm (in)	560 (22.0)	560 (22)	560 (22)	610 (24.0)
FUEL TANK CAPACITY (Refilled):	ltr. (U.S.Gal)	500 (132)	625 (165)	625 (165)	840 (222)
*) Spec conditions: Bulldozer Rear attachment Upper attachment		Semi-U tilt Multi-shank ripper Steel cab, ROPS	Semi-U tilt Giant ripper Steel cab, ROPS	Strengthened SIGMADOZER Giant ripper ROPS cab	Semi-U tilt Giant ripper Steel cab, ROPS

** : Without canopy or cab, exhaust pipe, pre-cleaner cap or other easily removed encumbrances.

*** : Indonesia source

*4 : To top of cab

• : Tier 3 and Stage 3A model

Specifications

CRAWLER-TYPE TRACTORS

Item	Model	D275A-5R	*D275AX-5E0	D375A-5	D375A-5R
OPERATING WEIGHT*	kg (lb)	50850 (112,100)	49850 (109,900)	66990 (147,690)	68370 (150,730)
TRACTOR WEIGHT	kg (lb)	37680 (83,070)	37680 (83,070)	49800 (109,790)	50720 (111,820)
HORSEPOWER SAE J1995 Gross ISO9249/SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	337 (452)/2000 335 (449)/2000 306 (410)/2000	337 (452)/2000 335 (449)/2000 306 (410)/2000	391 (525)/1800	451 (605)/1800 391 (525)/1800 391 (525)/1800
PERFORMANCE:					
Travel speed Forward 1st	km/h (MPH)	3.6 (2.2)	3.6 (2.2)	3.8 (2.4)	3.5 (2.2)
2nd		6.7 (4.2)	6.7 (4.2)	6.8 (4.2)	6.8 (4.2)
3rd		11.2 (7.0)	11.2 (7.0)	11.8 (7.3)	11.8 (7.3)
Reverse 1st	km/h (MPH)	4.7 (2.9)	4.7 (2.9)	5.1 (3.2)	4.6 (2.9)
2nd		8.7 (5.4)	8.7 (5.4)	9.2 (5.7)	9.2 (5.7)
3rd		14.9 (9.3)	14.9 (9.3)	15.8 (9.8)	15.8 (9.8)
Max. drawbar pull	kg (lb/kN)	—	—	—	—
DIMENSIONS:					
Overall length (tractor)	mm (ft.in)	5255 (17'3")	5255 (17'3")	5770 (18'11")	5905 (19'4")
Overall length*	mm (ft.in)	9290 (30'6")	9260 (30'5")	10330 (33'11")	10410 (34'2")
Overall width (w/o trunnion)	mm (ft.in)	2925 (9'7")	2925 (9'7")	3220 (10'7")	3225 (10'7")
Overall width (with blade)*	mm (ft.in)	4300 (14'1")	4300 (14'1")	4695 (15'5")	4695 (15'5")
Overall height (tractor)**	mm (ft.in)	3160 (10'4")	3160 (10'4")	3280 (10'9")	3475 (11'5")
Overall height*	mm (ft.in)	3985 (13'1")	3990 (13'1")	4230 (13'11")	4235 (13'11")
Track gauge	mm (ft.in)	2260 (7'5")	2260 (7'5")	2500 (8'2")	2500 (8'2")
Length of track on ground	mm (ft.in)	3480 (11'5")	3480 (11'5")	3840 (12'7")	3840 (12'7")
ENGINE:					
Model		KOMATSU SAA6D140E-5	KOMATSU SAA6D140E-5	KOMATSU SAA6D170E-3	KOMATSU SAA6D170E-5
No. of cylinders- bore × stroke	mm (in)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-170 × 170 (6.69 × 6.69)	6-170 × 170 (6.69 × 6.69)
Piston displacement	ltr. (cu.in)	15.24 (930)	11.04 (674)	23.15 (1413)	23.15 (1413)
UNDERCARRIAGE:					
No. of rollers (carrier/track)		2/7	2/7	2/7	2/8
Width of standard shoe	mm (in)	610 (24.0)	610 (24.0)	610 (24.0)	610 (24.0)
FUEL TANK CAPACITY (Refilled):	ltr. (U.S.Gal)	840 (222)	840 (222)	1050 (277)	1050 (277)
*) Spec conditions: Bulldozer Rear attachment Upper attachment		Semi-U tilt Giant ripper Steel cab, ROPS	Semi-U tilt Giant ripper Steel cab, ROPS	Semi-U tilt Giant ripper Steel cab, ROPS	Semi-U tilt Giant ripper Steel cab, ROPS

Item	Model	D375A-6R	*D375A-6	D475A-5E0	D475A-5E0 SD
OPERATING WEIGHT*	kg (lb)	70235 (154,840)	71640 (157,940)	108390 (238,960)	113200 (249,560)
TRACTOR WEIGHT	kg (lb)	51800 (114,200)	53200 (117,290)	83590 (184,290)	84510 (186,310)
HORSEPOWER SAE J1995 Gross ISO9249/SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	474 (636)/1800 455 (610)/1800 433 (580)/1800	474 (636)/1800 455 (610)/1800 433 (580)/1800	671 (899)/2000 644 (890)/2000 641 (860)/2000	671 (899)/2000 664 (890)/2000 641 (860)/2000
PERFORMANCE:					
Travel speed Forward 1st	km/h (MPH)	3.5 (2.2)	3.5 (2.2)	3.3 (2.1)	3.3 (2.1)
2nd		6.8 (4.2)	6.8 (4.2)	6.2 (3.9)	6.2 (3.9)
3rd		11.8 (7.3)	11.8 (7.3)	11.2 (7.0)	11.2 (7.0)
Reverse 1st	km/h (MPH)	4.6 (2.9)	4.6 (2.9)	—	—
2nd		8.9 (5.5)	8.9 (5.5)	14.0 (8.7)	14.0 (8.7)
3rd		15.8 (9.8)	15.8 (9.8)	—	—
Max. drawbar pull	kg (lb/kN)	—	—	—	—
DIMENSIONS:					
Overall length (tractor)	mm (ft.in)	5905 (19'4")	5905 (19'4")	6680 (21'11")	6680 (21'11")
Overall length*	mm (ft.in)	10515 (34'6")	10485 (34'5")	11565 (37'11")	10525 (34'6")
Overall width (w/o trunnion)	mm (ft.in)	3240 (10'8")	3240 (10'8")	3660 (12')	3610 (11'10")
Overall width (with blade)*	mm (ft.in)	4695 (15'5")	4695 (15'5")	5265 (17'3")	6465 (21'3")
Overall height (tractor)**	mm (ft.in)	3315 (10'11")	3365 (11'0")	3660 (12')	3660 (12')
Overall height*	mm (ft.in)	4235 (13'11")	4285 (14'1")	4646 (15'3")	4646 (15'3")
Track gauge	mm (ft.in)	2500 (8'2")	2500 (8'2")	2770 (9'1")	2770 (9'1")
Length of track on ground	mm (ft.in)	3840 (12'7")	3980 (13'1")	4524 (14'10")	4524 (14'10")
ENGINE:					
Model		KOMATSU SAA6D170E-5	KOMATSU SAA6D170E-5	KOMATSU SAA12V140E-3	KOMATSU SAA12V140E-5
No. of cylinders- bore × stroke	mm (in)	6-170 × 170 (6.69 × 6.69)	6-170 × 170 (6.69 × 6.69)	12-140 × 165 (5.51 × 6.50)	12-140 × 165 (5.51 × 6.50)
Piston displacement	ltr. (cu.in)	23.15 (1413)	23.15 (1413)	30.48 (1860)	—
UNDERCARRIAGE:					
No. of rollers (carrier/track)		2/7	2/8	2/8	2/8
Width of standard shoe	mm (in)	610 (24.0)	610 (24.0)	710 (28.0)	810 (32.0)
FUEL TANK CAPACITY (Refilled):	ltr. (U.S.Gal)	1200 (317)	1200 (317)	1670 (441)	1670 (441)
*) Spec conditions: Bulldozer Rear attachment Upper attachment		Semi-U tilt Giant ripper Steel cab, ROPS	Semi-U tilt Giant ripper Steel cab, ROPS	Semi-U tilt Giant ripper Steel cab, ROPS	Super dozer Counterweight Steel cab, ROPS

** : Without canopy, exhaust pipe, pre-cleaner cap or other easily removed encumbrances.

• : Tier 3 and Stage 3A model

Specifications

CRAWLER-TYPE TRACTORS

Item	Model	D575A-3	D575A-3 SD		
OPERATING WEIGHT*	kg (lb)	131350 (289,570)	152600 (336,420)		
TRACTOR WEIGHT	kg (lb)	98450 (217,040)	114580 (252,600)		
HORSEPOWER SAE J1995 Gross ISO9249/SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	783 (1050)/1800	858 (1150)/1800		
PERFORMANCE:					
Travel speed Forward 1st	km/h (MPH)	3.7 (2.3)	3.7 (2.3)		
2nd		6.6 (4.1)	6.6 (4.1)		
3rd		11.6 (7.2)	11.6 (7.2)		
Reverse 1st	km/h (MPH)	4.3 (2.7)	4.3 (2.7)		
2nd		7.7 (4.8)	7.7 (4.8)		
3rd		13.3 (8.3)	13.3 (8.3)		
Max. drawbar pull	kg (lb/kN)	—	—		
DIMENSIONS:					
Overall length (tractor)	mm (ft.in)	7270 (23'10")	7695 (25'3")		
Overall length*	mm (ft.in)	12095 (39'8")	11720 (38'5")		
Overall width (w/o trunnion)	mm (ft.in)	4180 (13'9")	4180 (13'9")		
Overall width (with blade)*	mm (ft.in)	5880 (19'3")	7400 (24'3")		
Overall height (tractor)**	mm (ft.in)	3780 (12'5")	3780 (12'5")		
Overall height*	mm (ft.in)	4880 (16'0")	4880 (16'0")		
Track gauge	mm (ft.in)	3220 (10'7")	3220 (10'7")		
Length of track on ground	mm (ft.in)	4530 (14'10")	5485 (18')		
ENGINE:					
Model		KOMATSU SA12V170	KOMATSU SA12V170		
No. of cylinders- bore × stroke	mm (in)	12-170 × 170 (6.69 × 6.69)	12-170 × 170 (6.69 × 6.69)		
Piston displacement	ltr. (cu.in)	46.3 (2825)	46.3 (2825)		
UNDERCARRIAGE:					
No. of rollers (carrier/track)		2/6	2/8		
Width of standard shoe	mm (in)	860 (34.0)	860 (33.9)		
FUEL TANK CAPACITY (Refilled):	ltr. (U.S.Gal)	2100 (555)	2100 (555)		
*) Spec conditions:					
Bulldozer		Semi-U dozer	Super dozer		
Rear attachment		Giant ripper	Counterweight		
Upper attachment		Steel cab, ROPS	Steel cab, ROPS		

** : Without canopy, exhaust pipe, pre-cleaner cap or other easily removed encumbrances.

Specifications (Low Ground Pressure Tractors)

CRAWLER-TYPE TRACTORS

Item	Model	D21P-8E0	•D31PX-22	•D31PX-22***	•D37PX-22
OPERATING WEIGHT*	kg (lb)	4100 (9,040)	8130 (17,930)	8130 (17,930)	8240 (18,170)
TRACTOR WEIGHT	kg (lb)	3520 (7,760)	6910 (15,240)	6910 (15,240)	6990 (15,410)
HORSEPOWER SAE J1995 Gross ISO9249/SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	32.4 (43.4)/2450	60 (80)/2200 58 (78)/2200 53 (71)/2200	60 (80)/2200 58 (78)/2200 53 (71)/2200	68 (91)/2200 66 (89)/2200 59 (79)/2200
PERFORMANCE:					
Travel speed Forward 1st	km/h (MPH)	2.6 (1.6)	3.4 (2.1)	0 to	3.4 (2.1)
2nd		4.4 (2.7)	5.6 (3.5)	8.5 (5.3)	5.6 (3.5)
3rd		—	8.5 (5.3)	—	8.5 (5.3)
Reverse 1st	km/h (MPH)	3.3 (2.1)	4.1 (2.5)	0 to	4.1 (2.5)
2nd		5.6 (3.5)	6.5 (4.0)	8.5 (5.3)	6.5 (4.0)
3rd		—	8.5 (5.3)	—	8.5 (5.3)
Max. drawbar pull	kg (lb/kN)	4480 (9,880/43.9)	15300 (33,730/150)	15300 (33,730/150)	15300 (33,730/150)
DIMENSIONS:					
Overall length (tractor)*4	mm (ft.in)	2430 (8'0")	3220 (10'7")	3220 (10'7")	3055 (10'2")
Overall length*	mm (ft.in)	3260 (10'8")	4155 (13'8")	4155 (13'8")	4175 (13'8")
Overall width (w/o trunnion)	mm (ft.in)	2000 (6'7")	2250 (7'5")	2250 (7'5")	2250 (7'5")
Overall width (with blade)*	mm (ft.in)	2560 (8'5")	3250 (10'8")	3250 (10'8")	3250 (10'8")
Overall height (tractor)**	mm (ft.in)	1810 (5'11")	2760 (9'1") ⁵	2760 (9'1") ⁵	2760 (9'1") ⁵
Overall height*	mm (ft.in)	2335 (7'8")	2775 (9'1")	2775 (9'1")	2775 (9'1")
Track gauge	mm (ft.in)	1490 (4'11")	1650 (5'5")	1650 (5'5")	1650 (5'5")
Length of track on ground	mm (ft.in)	1685 (5'6")	2185 (7'2")	2185 (7'2")	2240 (7'4")
ENGINE:					
Model		KOMATSU 4D94LE-2	KOMATSU SAA4D95LE-5	KOMATSU SAA4D95LE-5	KOMATSU SAA4D95LE-5
No. of cylinders- bore × stroke	mm (in)	4-94 × 110 (3.70 × 4.33)	4-95 × 115 (3.74 × 4.53)	4-95 × 115 (3.74 × 4.53)	4-95 × 115 (3.74 × 4.53)
Piston displacement	ltr. (cu.in)	3.053 (186)	3.26 (199)	3.26 (199)	3.26 (199)
UNDERCARRIAGE:					
No. of rollers (carrier/track)		1/5	1/6	1/6	1/6
Width of standard shoe	mm (in)	510 (20.1)	600 (23.6)	600 (23.6)	600 (23.6)
FUEL TANK CAPACITY (Refilled):	ltr. (U.S.Gal)	60 (15.9)	195 (51.5)	195 (51.5)	195 (51.5)
*) Spec conditions: Bulldozer Rear attachment Upper attachment		PAT — —	PAT — ROPS canopy	PAT — ROPS canopy	PAT — ROPS canopy

Item	Model	•D37PX-22***	•D39PX-22	•D39PX-22***	•D51PX-22
OPERATING WEIGHT*	kg (lb)	8240 (18,170)	9480 (20,900)	8900 (19,620)	13220 (29,150)
TRACTOR WEIGHT	kg (lb)	6990 (15,410)	8160 (17,990)	8160 (17,990)	11620 (25,620)
HORSEPOWER SAE J1995 Gross ISO9249/SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	68 (91)/2200 66 (89)/2200 59 (79)/2200	79.9 (107)/2200 79 (105)/2200 71 (95)/2200	79.9 (107)/2200 79 (105)/2200 71 (95)/2200	99 (133)/2200 97 (130)/2200 90 (120)/2200
PERFORMANCE:					
Travel speed Forward 1st	km/h (MPH)	0 to	3.4 (2.1)	0 to	3.4 (2.1)
2nd		8.5 (5.3)	5.6 (3.5)	8.5 (5.3)	5.6 (3.5)
3rd		—	8.5 (5.3)	—	9.0 (5.6)
Reverse 1st	km/h (MPH)	0 to	4.1 (2.5)	0 to	4.1 (2.5)
2nd		8.5 (5.3)	6.5 (4.1)	8.5 (5.3)	6.5 (4.0)
3rd		—	8.5 (5.3)	—	9.0 (5.6)
Max. drawbar pull	kg (lb/kN)	15300 (33,730/150)	14500 (32,630/145)	14500 (32,630/145)	—
DIMENSIONS:					
Overall length (tractor)*4	mm (ft.in)	3055 (10'2")	3295 (10'10")	3295 (10'10")	3665 (12'0")
Overall length*	mm (ft.in)	4175 (13'8")	4335 (14'3")	4335 (14'3")	4800 (15'8")
Overall width (w/o trunnion)	mm (ft.in)	2250 (7'5")	2425 (7'11")	2425 (7'11")	2590 (8'6")
Overall width (with blade)*	mm (ft.in)	3250 (10'8")	3250 (10'8")	3250 (10'8")	3045 (10'0")
Overall height (tractor)**	mm (ft.in)	2760 (9'1") ⁵	2825 (9'3") ⁵	2825 (9'3") ⁵	3002 (9'10") ⁵
Overall height*	mm (ft.in)	2775 (9'1")	2825 (9'3")	2825 (9'3")	3182 (10'5")
Track gauge	mm (ft.in)	1650 (5'5")	1790 (5'10")	1790 (5'10")	1880 (6'2")
Length of track on ground	mm (ft.in)	2240 (7'4")	2360 (7'9")	2360 (7'9")	2745 (9'0")
ENGINE:					
Model		KOMATSU SAA4D95LE-5	KOMATSU SAA4D107E-1	KOMATSU SAA4D107E-1	KOMATSU SAA6D107E-1
No. of cylinders- bore × stroke	mm (in)	4-95 × 115 (3.74 × 4.53)	4-107 × 124 (4.21 × 4.88)	4-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)
Piston displacement	ltr. (cu.in)	3.26 (199)	4.46 (272)	4.46 (272)	6.69 (408)
UNDERCARRIAGE:					
No. of rollers (carrier/track)		1/6	1/6	1/6	2/7
Width of standard shoe	mm (in)	600 (23.6)	635 (25.0)	635 (25.0)	710 (28)
FUEL TANK CAPACITY (Refilled):	ltr. (U.S.Gal)	195 (51.5)	195 (51.5)	195 (51.5)	270 (71.3)
*) Spec conditions: Bulldozer Rear attachment Upper attachment		PAT — ROPS canopy	PAT — ROPS canopy	PAT — ROPS canopy	PAT — ROPS cab

** : Without canopy, exhaust pipe, pre-cleaner cap or other easily removed encumbrances.

*** : Variable travel speed mode

*4 : With hitch ⁴⁵ : To top of ROPS canopy or cab

• : Tier 3 and Stage 3A model

Specifications (Low Ground Pressure Tractors)

CRAWLER-TYPE TRACTORS

Item	Model	•D61PX-15E0	D65P-12	•D65PX-16	•D65PX-16
OPERATING WEIGHT*	kg (lb)	18710 (41,250)	20185 (44,500)	20990 (46,270)	21860 (48,190)
TRACTOR WEIGHT	kg (lb)	15620 (34,440)	16940 (37,350)	18890 (41,640)	18870 (41,600)
HORSEPOWER SAE J1995 Gross ISO9249/SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	127 (170)/1850 125 (168)/1850 116 (155)/1850	142 (190)/1950	155 (207)/1950 153 (205)/1950 139 (186)/1950	155 (207)/1950 153 (205)/1950 139 (186)/1950
PERFORMANCE:					
Travel speed Forward	1st 2nd 3rd	3.2 (2.0) 5.6 (3.5) 8.7 (5.4)	3.9 (2.4) 6.8 (4.2) 10.6 (6.6)	3.6 (2.2) 5.5 (3.4) 11.2 (7.0)	3.6 (2.2) 5.5 (3.4) 11.2 (7.0)
Reverse	1st 2nd 3rd	4.3 (2.7) 7.2 (4.5) 11.2 (6.8)	5.0 (3.1) 8.6 (5.3) 13.4 (8.3)	4.4 (2.7) 6.6 (4.1) 13.4 (8.3)	4.4 (2.7) 6.6 (4.1) 13.4 (8.3)
Max. drawbar pull	kg (lb/kN)	—	—	—	—
DIMENSIONS:					
Overall length (tractor)	mm (ft.in)	4160 (13'8")	4425 (14'6")	4505 (14'9")	5130 (16'10")
Overall length*	mm (ft.in)	5440 (17'10")	5520 (18'1")	5680 (18'8")	5790 (19'0")
Overall width (w/o trunnion)	mm (ft.in)	3000 (9'10")	2965 (9'9")	2965 (9'8")	2990 (9'10")
Overall width (with blade)*	mm (ft.in)	3860 (12'8")	3970 (13'0")	3970 (13' 0")	2990 (9'10")
Overall height (tractor)**	mm (ft.in)	2270 (7'5")	2300 (7'7")	3155 (10'4")* ⁵	3155 (10'4")* ⁵
Overall height*	mm (ft.in)	3150 (10'4")	3165 (10'5")	3155 (10'4")	3155 (10'4")
Track gauge	mm (ft.in)	2140 (7')	2050 (6'9")	2050 (6' 9")	2230 (7' 4")
Length of track on ground	mm (ft.in)	3170 (10'5")	3285 (10'9")	3285 (10'9")	3285 (10'9")
ENGINE:		KOMATSU	KOMATSU	KOMATSU	KOMATSU
Model		SAA6D107E-1	S6D125E	SAA6D114E-3	SAA6D114E-3
No. of cylinders- bore × stroke	mm (in)	6-107 × 124 (4.21 × 4.88)	6-125 × 150 (4.92 × 5.91)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)
Piston displacement	ltr. (cu.in)	6.69 (408)	11.04 (674)	8.27 (505)	8.27 (505)
UNDERCARRIAGE:					
No. of rollers (carrier/track)		2/8	2/8	2/8	2/8
Width of standard shoe	mm (in)	860 (34)	915 (36.0)	915 (36)	760 (30)
FUEL TANK CAPACITY (Refilled):	ltr. (U.S.Gal)	390 (103)	406 (107.3)	415 (109.6)	415 (109.6)
*) Spec conditions: Bulldozer Rear attachment Upper attachment		PAT — ROPS canopy	Straight tilt — Steel cab, ROPS	Straight tilt — ROPS cab	PAT — ROPS cab

Item	Model	•D85PX-15E0	D85PX-15R		
OPERATING WEIGHT*	kg (lb)	27650 (60,960)	27550 (60,740)		
TRACTOR WEIGHT	kg (lb)	23500 (51,810)	23400 (51,590)		
HORSEPOWER SAE J1995 Gross ISO9249/SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	199 (266)/1900 197 (264)/1900 179 (240)/1900	179 (240)/1900		
PERFORMANCE:					
Travel speed Forward	1st 2nd 3rd	3.3 (2.1) 6.0 (3.7) 10.0 (6.2)	3.6 (2.2) 6.0 (3.7) 10.0 (6.2)		
Reverse	1st 2nd 3rd	12.7 (7.9)	4.7 (2.9) 7.9 (4.9) 12.7 (7.9)		
Max. drawbar pull	kg (lb/kN)	—	—		
DIMENSIONS:					
Overall length (tractor)	mm (ft.in)	4720 (15'6")	4720 (15'6")		
Overall length*	mm (ft.in)	6065 (19'11")	6065 (19'11")		
Overall width (w/o trunnion)	mm (ft.in)	3160 (10'4")	3160 (10'4")		
Overall width (with blade)*	mm (ft.in)	4365 (14'4")	4365 (14'4")		
Overall height (tractor)**	mm (ft.in)	3163 (10'5")* ⁵	3163 (10'5")* ⁵		
Overall height*	mm (ft.in)	3330 (10'11")	3324 (10'11")		
Track gauge	mm (ft.in)	2250 (7'5")	2250 (7'5")		
Length of track on ground	mm (ft.in)	3480 (11'5")	3480 (11'5")		
ENGINE:		KOMATSU	KOMATSU		
Model		SAA6D125E-5	SAA6D125E-5		
No. of cylinders- bore × stroke	mm (in)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.9 × 5.9)		
Piston displacement	ltr. (cu.in)	11.04 (674)	11.04 (674)		
UNDERCARRIAGE:					
No. of rollers (carrier/track)		2/8	2/8		
Width of standard shoe	mm (in)	910 (36)	910 (36)		
FUEL TANK CAPACITY (Refilled):	ltr. (U.S.Gal)	490 (129)	490 (129)		
*) Spec conditions: Bulldozer Rear attachment Upper attachment		Straight tilt — Steel cab, ROPS	Straight tilt — Steel cab, ROPS		

** : Without canopy, exhaust pipe, pre-cleaner cap or other easily removed encumbrances.

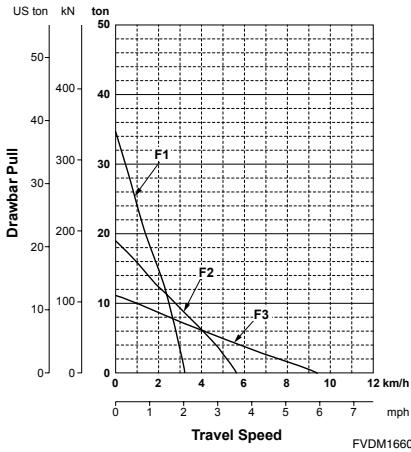
*⁵ : To top of ROPS cab

• : Tier 3 and Stage 3A model

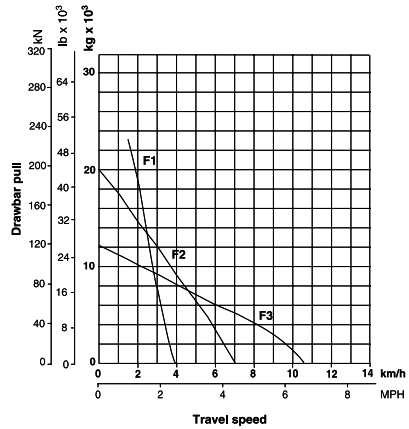
Drawbar Pull vs. Travel Speed

CRAWLER-TYPE TRACTORS

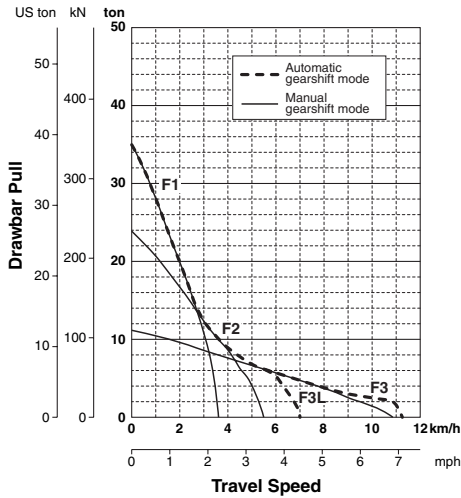
D61EX-15E0



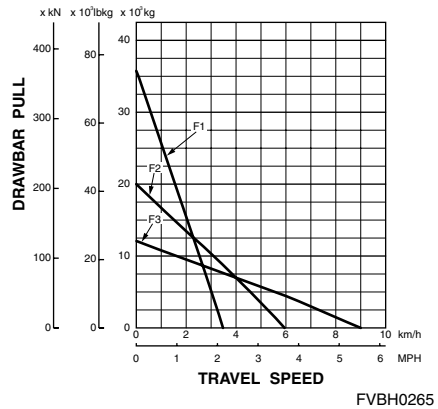
D65E-12



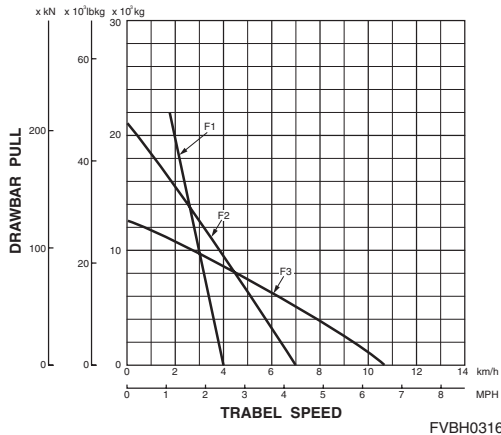
D65EX-16, D65WX-16



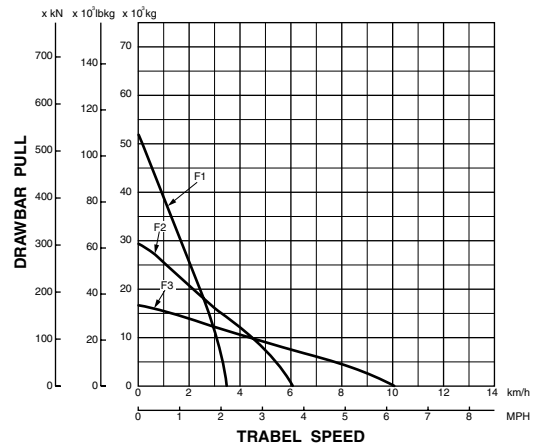
D68ESS-12



D85ESS-2, D85ESS-2A



**D85EX-15E0
D85EX-15R**

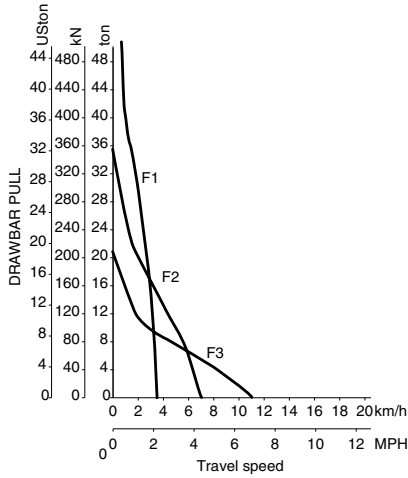


NOTE: THE DRAWBAR PULL AND TRAVEL SPEED MAY BE SUBJECT TO CHANGE DEPENDING ON THE GROUND CONDITIONS AND MACHINE WEIGHT.

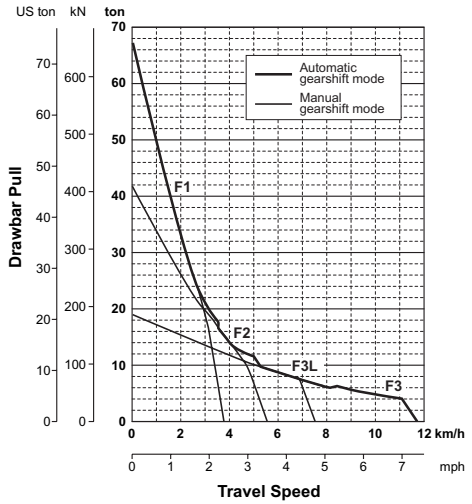
Drawbar Pull vs. Travel Speed

CRAWLER-TYPE TRACTORS

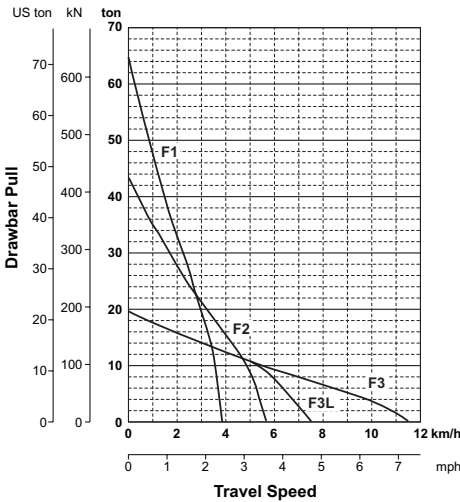
D155A-5



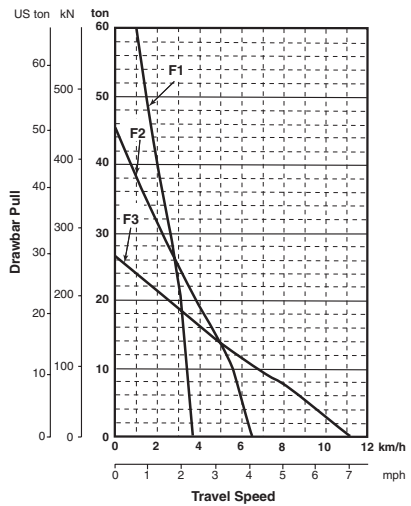
D155AX-6



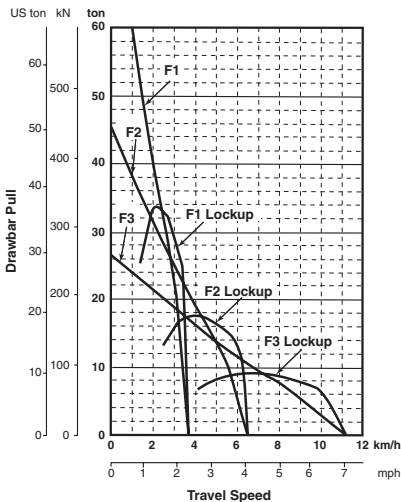
D155A-6



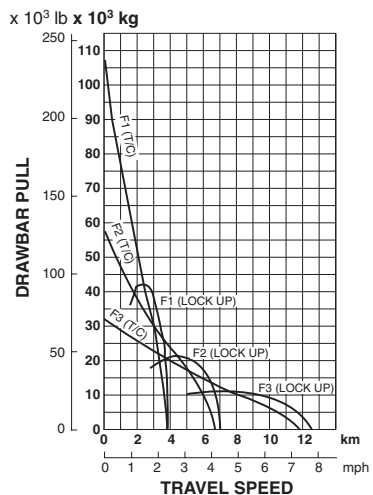
D275A-5, D275A-5R



D275AX-5E0



D375A-5, D375A-5R

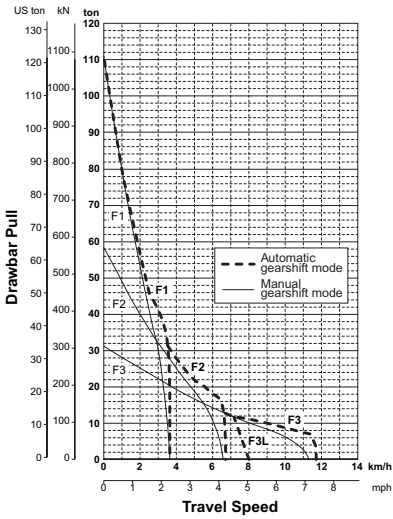


NOTE: THE DRAWBAR PULL AND TRAVEL SPEED MAY BE SUBJECT TO CHANGE DEPENDING ON THE GROUND CONDITIONS AND MACHINE WEIGHT.

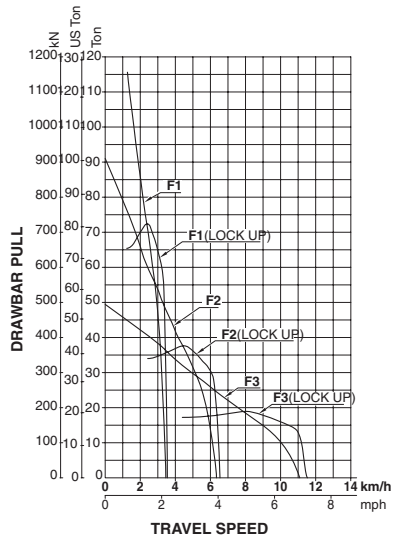
Drawbar Pull vs. Travel Speed

CRAWLER-TYPE TRACTORS

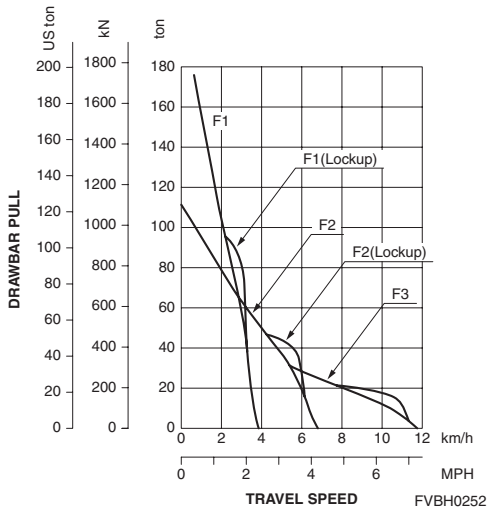
D375A-6



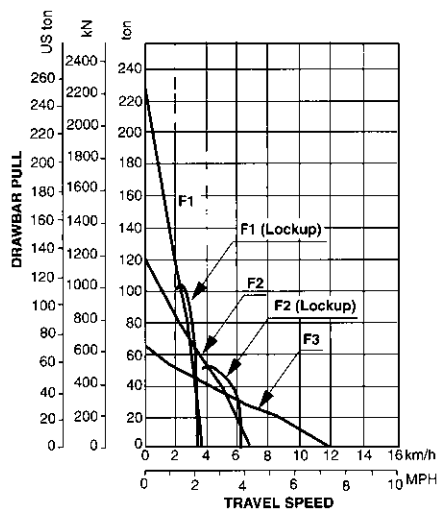
D475A-5E0, D475ASD-5E0



D575A-3



D575A-3 SD

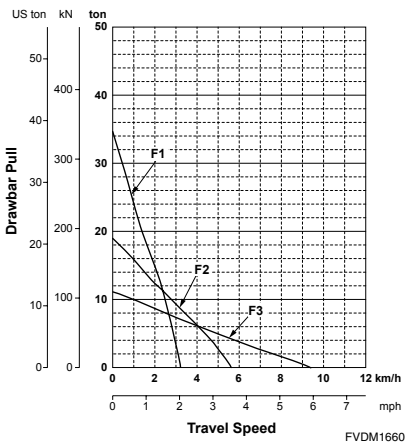


NOTE: THE DRAWBAR PULL AND TRAVEL SPEED MAY BE SUBJECT TO CHANGE DEPENDING ON THE GROUND CONDITIONS AND MACHINE WEIGHT.

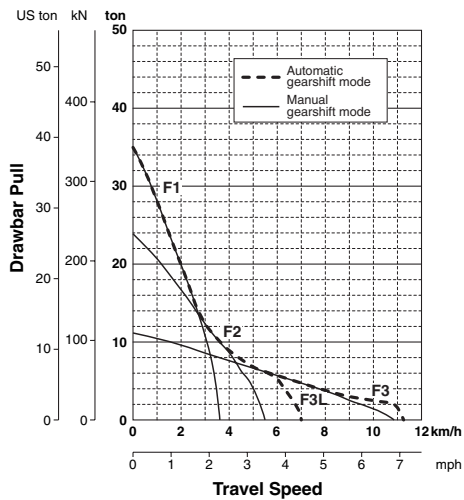
Drawbar Pull vs. Travel Speed

CRAWLER-TYPE TRACTORS

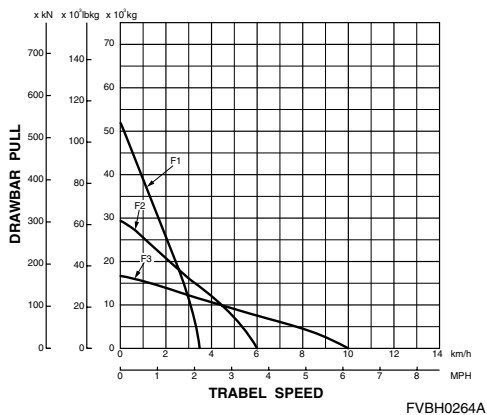
D61PX-15E0



D65PX-16



D85PX-15E0



NOTE: THE DRAWBAR PULL AND TRAVEL SPEED MAY BE SUBJECT TO CHANGE DEPENDING ON THE GROUND CONDITIONS AND MACHINE WEIGHT.

Definition: Ground pressure = tractor machine operating weight / total ground contact area where;
total ground contact area = length of track on ground × shoe width × 2.

Single grouser shoe

Model	Shoe width mm (in.)	Ground contact area m ² (in ²)	Ground pressure kg/cm ² (PSI/kPa)	Application**
D21A-8E0	300 (12)*	1.01 (1570)	0.31 (4.41/30.4)	B
	340 (13.4)	1.15 (1780)	0.28 (3.98/27.5)	B
D21P-8E0	510 (20.0)	1.72 (2660)	0.20 (2.84/19.6)	C
D31EX-22	400 (15.7)	1.75 (2713)	0.37 (5.26/36.3)	B
D31PX-22	600 (23.6)	2.62 (4061)	0.26 (3.70/25.5)	C
D37EX-22	400 (15.7)	1.79 (2775)	0.37 (5.26/36.3)	B
D37PX-22	600 (23.6)	2.69 (4170)	0.26 (3.70/25.5)	C
D39EX-22	460 (18)*	2.17 (3364)	0.36 (5.12/35.3)	B
	510 (20)	2.41 (3736)	0.33 (4.69/32.4)	B
D39PX-22	635 (25)*	3.00 (4646)	0.27 (3.84/26.5)	B
	700 (27.6)	3.31 (5130)	0.25 (3.56/24.5)	C
D51EX-22	510 (20)*	2.80 (4340)	0.40 (5.69/39.2)	B
	560 (22)	3.07 (4759)		B
D51PX-22	710 (28)*	3.90 (6042)	0.30 (4.27/29.4)	C
D61EX-15***	600 (23.6)*	3.80 (5890)	0.38 (5.40/37.3)	B
D61EX-15E0	600 (23.6)*	3.12 (4836)	0.45 (6.46/44.1)	B
D61EX-15E0***	600 (23.6)*	3.80 (5890)	0.38 (5.40/37.3)	B
D61PX-15E0	860 (33.9)*	5.45 (8447)	0.29 (4.12/28.4)	C
D65E-12	510 (20)*	2.73 (4230)	0.57 (8.11/55.9)	B
	560 (22)	3.00 (4650)	0.53 (7.54/52.0)	B
	610 (24)	3.26 (5050)	0.49 (6.97/48.1)	B
	660 (26)	3.53 (5473)	0.45 (6.40/44.1)	B
D65EX-16	510 (20)*	3.04 (4712)	0.56 (8.01/55.2)	B
	560 (22)	3.34 (5177)	0.52 (7.35/50.7)	B
	610 (24)	3.64 (5642)	0.48 (6.83/66.9)	B
	660 (26)	3.93 (6092)	0.44 (6.26/61.4)	B
D65PX-16	915 (36)*	6.01 (9318)	0.31 (4.47/30.8)	C
D65P-12	915 (36)*	6.01 (9320)	0.28 (3.98/25.4)	C
D65WX-16	760 (30)*	4.53 (7021)	0.39 (5.61/38.6)	C
D68ESS-12	610 (24)*	3.57 (5635)	0.53 (7.54/52.0)	B
D85ESS-2	610 (24) *	3.64 (5640)	0.43 (6.11/42.2)	B
D85ESS-2A	510 (20) *	3.04 (4712)	0.51 (7.25/50.0)	A
	560 (22)	3.34 (5177)	0.47 (6.68/46.1)	A
	610 (24)	3.64 (5642)	0.43 (6.11/42.2)	B
	660 (26)	3.93 (6092)	0.40 (5.69/39.2)	B
D85EX-15E0 D85EX-15R	560 (22)*	3.42 (5295)	0.62 (8.83/60.8)	A
	610 (24)	3.72 (5768)	0.57 (8.11/55.9)	B
	660 (26)	4.03 (6240)	0.54 (7.68/53.0)	B
D85PX-15E0 D85PX-15R	910 (36)*	6.33 (9820)	0.37 (5.26/36.3)	C
D155A-5	560 (22) *	3.60 (5580)	0.78 (11.09/76.5)	A
	610 (24)	3.92 (6080)	0.72 (10.23/70.6)	B
	660 (26)	4.24 (6570)	0.67 (9.53/65.7)	B
	710 (28)	4.56 (7070)	0.63 (8.96/61.8)	C
D155A-6	560 (22)*	3.53 (5472)	0.92 (13.1/90.2)	A
	610 (24)	3.84 (5952)	0.85 (12.1/83.4)	B
	660 (26)	4.16 (6448)	0.79 (11.2/77.5)	B
	710 (28)	4.47 (6929)	0.74 (10.5/72.6)	C
D155AX-6	560 (22) *	3.67 (5685)	0.84 (11.9/82.4)	A
	610 (24)	4.00 (6193)	0.78 (11.1/76.5)	B
	660 (26)	4.32 (6700)	0.73 (10.4/71.6)	B
	710 (28)	4.61 (7208)	0.69 (9.8/67.7)	C

* : Standard shoe
** : See the classification of shoe application
*** : Long track spec.

Definition: Ground pressure = tractor machine operating weight / total ground contact area where;
total ground contact area = length of track on ground × shoe width × 2.

Extreme service shoe

Model	Shoe width mm (in.)	Ground contact area m ² (in ²)	Ground pressure kg/cm ² (PSI/kPa)	Application**
D155A-5	560 (22)	3.60 (5580)	0.79 (11.23/77.5)	A
	610 (24)	3.92 (6080)	0.73 (10.38/71.6)	B
	660 (26)	4.24 (6570)	0.68 (9.67/66.7)	B
D155A-6	560 (22)	3.53 (5472)	0.93 (13.2/91.2)	A
	610 (24)	3.84 (5952)	0.86 (12.2/84.3)	B
	660 (26)	4.16 (6448)	0.80 (11.4/98.5)	B
D155AX-6	560 (22)	3.67 (5685)	0.85 (12.1/83.4)	A
	610 (24)	4.00 (6193)	0.79 (11.2/77.5)	B
	660 (26)	4.32 (6700)	0.74 (10.5/72.6)	B
D275A-5 D275A-5R	610 (24)*	4.25 (6590)	0.89 (12.66/87.3)	A
	710 (28)	4.94 (7660)	0.77 (10.95/75.5)	B
	810 (32)	5.29 (8200)	0.73 (10.38/71.6)	B
D275AX-5E0	610 (24)*	4.25 (6590)	0.89 (12.66/87.3)	A
	710 (28)	4.94 (7660)	0.77 (10.95/75.5)	B
	810 (32)	5.29 (8200)	0.73 (10.38/71.6)	B
D375A-5	610 (24)*	4.69 (7260)	1.06 (15.07/104.0)	A
	710 (28)	5.45 (8450)	0.93 (13.22/91.2)	B
	810 (32)	6.22 (9640)	0.82 (11.66/80.4)	C
D375A-5R	610 (24)*	4.69 (7260)	1.08 (15.4/106)	A
	710 (28)	5.45 (8450)	0.94 (13.4/92.2)	B
	810 (32)	6.22 (9640)	0.84 (11.9/82.4)	C
D375A-6	610 (24)*	4.86 (7527)	1.10 (15.6/108)	A
	710 (28)	5.65 (8760)	0.95 (13.5/93.2)	B
	810 (32)	6.45 (9990)	0.85 (12.1/83.4)	C
D375A-6R	610 (24)*	4.69 (7260)	1.11 (15.8/109)	A
	710 (28)	5.45 (8450)	0.96 (13.7/94.1)	B
	810 (32)	6.22 (9640)	0.85 (12.1/83.4)	C
D475A-5E0	710 (28)*	6.42 (9957)	1.30 (18.5/128)	A
	810 (32)	7.33 (11360)	1.15 (16.4/113)	B
	910 (36)	8.23 (12762)	1.04 (14.8/102)	C
D475ASD-5E0	810 (32)*	7.33 (11360)	1.14 (16.2/112)	A,B
	910 (36)	8.23 (12762)	1.04 (14.8/102)	C
D575A-3	760 (30)	6.89 (10670)	1.41 (19.1/137.3)	A
	810 (32)	7.34 (11380)	1.33 (18.8/129.4)	B
	860 (34)*	7.79 (12080)	1.26 (17.8/122.6)	B
	910 (36)	8.25 (12780)	1.19 (16.9/116.7)	C
D575A-3 SD	860 (34)*	9.43 (14620)	1.22 (17.3/119.6)	A,B
	910 (36)	9.98 (15470)	1.15 (16.4/112.8)	B

Swamp shoe (Circular arc shape)

Model	Shoe width mm (in.)	Ground contact area m ² (in ²)	Ground pressure kg/cm ² (PSI/kPa)	Application**
D31PX-22	600 (23.6)	2.62 (4061)	0.26 (3.70/25.5)	C
D37PX-22	600 (23.6)	2.69 (4170)	0.26 (3.70/25.5)	C
D39PX-22	700 (27.6)	3.30 (3800)	0.27 (3.84/26.5)	C
D61PX-15E0	860 (33.9)	5.45 (8447)	0.28 (3.98/27.5)	C
D65P-12	950 (37.4)	6.24 (9670)	0.27 (3.84/25.4)	C
D65PX-16	940 (37.0)	6.18 (9579)	0.31 (4.41/30.4)	C
D85PX-15R	910 (36)*	6.33 (9820)	0.37 (5.26/36.3)	C

* : Standard shoe

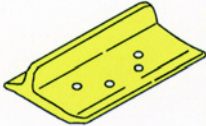
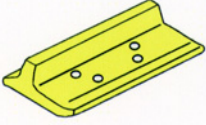
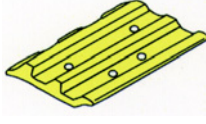
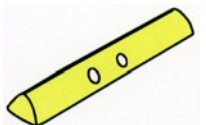
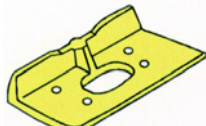

** : See the classification of shoe application

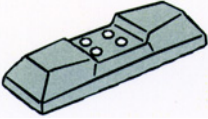
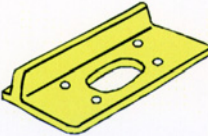
Classification of the applications:

Classification	Applicable terrain	Limitations
A	Rocky terrain, general terrain	These can be used over a wide range of general civil engineering work from crushed rock to preparation of residential land. There is no particular limitation on their use.
B	General or soft terrain	These are used for general earthmoving work where the main work is scraping operations and pushing operations when constructing golf courses, and overburden stripping operations in coal mines. They cannot be used on rocky ground. Be careful to avoid traveling over rocks when carrying out operations on job sites where there are scattered rocks.
C	Extremely soft terrain (swamps)	These are used on soft ground where B classification shoes would sink. These cannot be used on ground where there are scattered rocks.

NOTE: Select the proper shoe width for your customers, by taking the limitations described above into consideration, (especially on wide shoes "B" and "C").
Select the narrowest possible shoes, depending on the flotation and ground pressure of the machines. If the shoe is too wide, the load on the track shoe increases and results in bends in the shoes, cracks in the links, breakage and slipping out of the pins and loosening of the bolts.

Applications of different shoes in accordance with soil characteristics and working conditions.

Type of shoe	Applicable soil and work	Advantages	Disadvantages	Remarks
<p>1 Single grouser shoe</p> 	<p>General soil excluding rocky ground (for bulldozer)</p>	<ul style="list-style-type: none"> Because the shape of the grouser is sharp, it easily bites into the ground and provides a large traction force. 	<ul style="list-style-type: none"> Strength is somewhat reduced on rocky ground, and bending and other damage may occur. The riding conform is a little inferior to the triple and double grouser shoes. The road surface is liable to be roughed. The turning resistance is large. 	<p>Is available in various widths to suit the softness of the soil.</p>
<p>2 Heavy duty shoe</p> 	<p>For rocky ground (for bulldozer)</p>	<ul style="list-style-type: none"> Compared to a single grouser shoe, the grouser and plate portions of this shoe are thicker and stronger, providing high bending resistance and wear resistance. 		
<p>3 • Tripple grouser shoe • Double grouser shoe</p> 	<p>Hard ground Suitable for both soft and hard ground (for hydraulic excavator and dozer shovel)</p>	<ul style="list-style-type: none"> The three grousers have the same height, hence turning ability is good. Good riding comfort is obtained as compared with a single grouser shoe. Rotating resistance is low. Because three beams are used, resistance to bending is high. 	<ul style="list-style-type: none"> This shoe does not readily bite into the ground, so the traction force is low. 	
<p>4 Swamp shoe</p> 	<p>Swamp areas (for swamp dozer)</p>	<ul style="list-style-type: none"> Because the cross-section of this shoe is an arc, the ground contact area is large, and buoyancy is easily obtained. This shoe is particularly suitable for use in swamp areas and areas with low ground pressure. The ground surface is not damaged when the machine travels over it, so it is suitable for soil compaction and leveling work. 	<ul style="list-style-type: none"> Unsuitable for ground other than swampy ground. When used off swampy ground, it is liable to bend due to its low strength. 	<p>Various widths are available to suit the degree of softness of the swampy ground.</p>
<p>5 Snow shoe</p> 	<p>On snow</p>	<ul style="list-style-type: none"> For use on snow To prevent transverse slip <ol style="list-style-type: none"> 1) Is provided with rib. 2) Grousers are stepped. For discharging ice and snow <ol style="list-style-type: none"> 1) Holes are provided in plate portion. 2) Tail of plate has been eliminated. 	<ul style="list-style-type: none"> Wear and damage occur rapidly when this shoe is used on general soil and rocky ground. 	
<p>6 Flat shoe</p> 	<p>Paved roads Indoor work</p>	<ul style="list-style-type: none"> Projections have been eliminated (heads of shoe bolts are recessed), permitting work on paved roads without damaging road surface. Turning resistance is very low, and tracks are highly wear resistant. 	<ul style="list-style-type: none"> Because there are no grousers, this shoe does not bite into the ground. 	

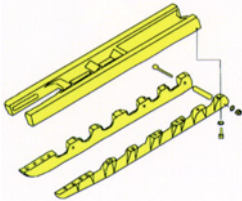
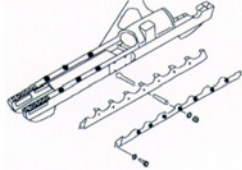
Type of shoe	Applicable soil and work	Advantages	Disadvantages	Remarks
<p>7 Road liner (rubber)</p> 	<p>Paved road Indoor work</p>	<ul style="list-style-type: none"> • The surface of the shoe in contact with the ground is made of rubber, so the machine can travel on paved roads without damaging the road surface. • Prevents noise when machine is traveling. 	<ul style="list-style-type: none"> • Use in the following places will shorten the cutting life of the rubber. <ol style="list-style-type: none"> (1) Rocky ground (2) Cold areas (below -25°C) (3) Hot areas (above 65°C) • Because there are no grouser, this shoe does not bite into the ground. 	
<p>8 Center hole shoe</p> 	<p>Soil which clogs</p>	<ul style="list-style-type: none"> • There is a hole in the plate to remove any mud or soil. • The sprocket removes any mud or soil collected between the track rails, so clogging of the track is reduced. 	<ul style="list-style-type: none"> • Strength is somewhat reduced on rocky ground, and crack and other damage may occur. 	

Roller guard installation (Bulldozer)

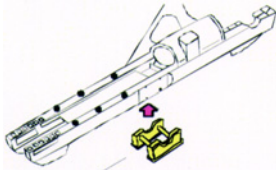
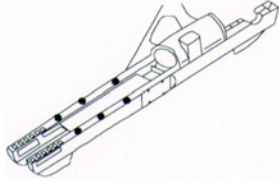
■ Small-middle Class

When using bulldozers, it is necessary to make most appropriate choices of the track roller guards fitting to respective working environments. Given below are the criterion for the choices.

This chart provides clearer criterion for the choices in consideration of respective functions of different types of track roller guards.

Types	Full roller guard	
	Integral structure full roller guard	3-part split type full roller guard
Determination criterion for different working environments		 Local add-on type
	Rocks and soil containing boulders and gravel (A and E)	The part is effective for prevention of catching pebbles.
	Sand and sandy soil (A, E and P)	The part is effective for prevention of pitch squeaking.
	Clayey soil (P and PL)	Be careful when using this part since the soil sets when dried. (Note 1)
	Swamp (PL and PLL)	The part is effective for prevention of snaking of the track. (Prevents side sliding of the track shoes.) (Note 1) The part is effective for prevention of disengagement of the track shoes.
	Slopes	The part is effective for prevention of disengagement of the track shoes. (Prevents side-sliding of the track shoes.)

(Note 1) Although soil and sand tend to enter less, once they enter, they may not be easily discharged depending on the type of soil, so make the choice in consideration of past experience with machines having been used in the subject area and of the working environments of the machine.

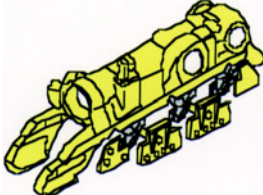
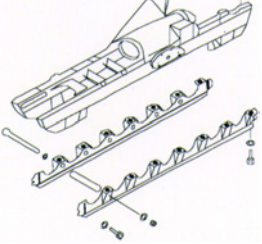
Types	Not full roller guard		
	Center and end section track guard	End section track guard	
Determination criterion for different working environments	 Short length guard for installation at the center section		
	Rocks and soil containing boulders and gravel (A and E)	The part is not suitable	The part is not suitable
	Sand and sandy soil (A, E and P)	No noticeable difference from use of the end-section only track guard	Although sand and soil tend to enter more, they can be easily discharged and this part is being employed.
	Clayey soil (P and PL)	The part is effective for prevention of disengagement or side-sliding of the track shoes	
	Swamp (PL and PLL)		
	Slopes	The part is not suitable	The part is not suitable

NOTE: Please consult your local distributor for availability of track rollers guard for the model that you require.

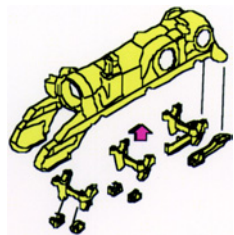
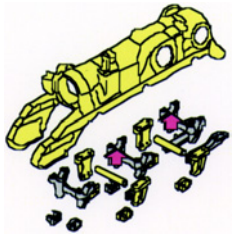
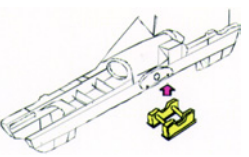
■ Large Class

When using bulldozers, it is necessary to make most appropriate choices of the track roller guards fitting to respective working environments. Given below are the criterion for the choices.

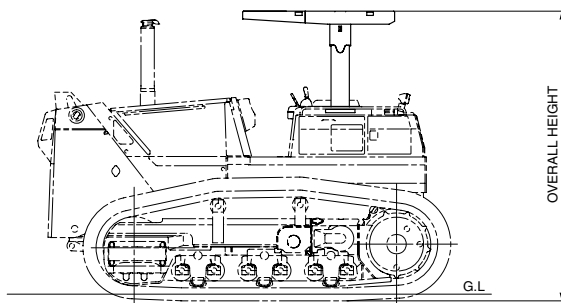
This chart provides clearer criterion for the choices in consideration of respective functions of different types of track roller guards.

Determination criterion for different working environments	Types	Full roller guard	
		Bogie full roller guard	Split type full roller guard
			
Rocks and soil containing boulders and gravel (A and E)	The part is effective for prevention of catching pebbles.		
Sand and sandy soil (A, E and P)	The part is effective for prevention of pitch squeaking.		
Clayey soil (A, E and P)	Be careful when using this part since the soil sets when dried. (Note 1)		
Slopes	The part is effective for prevention of disengagement of the track shoes. (Prevents side-sliding of the track shoes.)		

(Note 1) Although soil and sand tend to enter less, once they enter, they may not be easily discharged depending on the type of soil, so make the choice in consideration of past experience with machines having been used in the subject area and of the working environments of the machine.

Determination criterion for different working environments	Types	Not full roller guard		
		Bogie roller guard	Add-on full roller guard	Center end section track guard
				
Rocks and soil containing boulders and gravel (A and E)	Although sand and soil tend to enter more, they can be easily discharged and this part is being employed.	The part prevents stones from entering between rollers on the rocky soil		The part is not suitable
Sand and sandy soil (A, E and P)	The part is effective for prevention of disengagement or side-sliding of the track shoes.			Although sand and soil tend to enter more, they can be easily discharged and this part is being employed.
Clayey soil (A, E and P)				The part is effective for prevention of disengagement or side-sliding of the track shoes.
Slopes	The part is not suitable			The part is not suitable

NOTE: Please consult your local distributor for availability of track rollers guard for the model that you require.



Mode	Item	Weight kg (lb)			Overall height mm (ft.in)		
		Canvas or plastic canopy	*ROPS canopy	*ROPS cab	Canvas or plastic canopy	ROPS canopy	ROPS cab
D21A-8E0	70 (150)	310 (680)	566 (1,250)	2475 (8'1")	2450 (8')	2450 (8')	
D21P-8E0				2500 (8'2")	2475 (8'1")	2475 (8'1")	
D31EX-22	—	310 (680)	650 (1,430)	—	2760 (9'1")	2760 (9'1")	
D31PX-22							
D37EX-22	—	310 (680)	650 (1,430)	—	2760 (9'1")	2760 (9'1")	
D37PX-22							
D39EX-22	—	330 (730)	670 (1,480)	—	2825 (9'3")	2825 (9'3")	
D39PX-22							
D51EX-22	—	—	1716 (3783)* ⁵	—	—	3002 (9'10")	
D51PX-22							
D61EX-15E0	—	390 (860)***	710 (1,565) ⁴	—	3150 (10'4")	3150 (10'4")	
D61PX-15E0							
D65E, P-12	140 (310)	420 (930)***	760 (1,675) ⁴	2995 (9'10")	3165 (10'5")	3165 (10'5")	
D65EX-16	—	390 (860)***	810 (1,790) ⁶	—	3155 (10'4")	3155 (10'4")	
D65PX-16							
D65WX-16							
D85ESS-2A	140 (310)	420 (930)***	760 (1,675) ⁴	2995 (9'10")	3160 (10'4")	3160 (10'4")	
D85EX-15E0	—	437 (970)***	781 (1,730) ⁴	—	3340 (10'11")	3324 (10'11")	
D85EX-15R							
D85PX-15E0							
D85PX-15R							
D155A-5	—	505 (1,110)***	790 (1,740)	—	3500 (11'6")	3500 (11'6")	
D155A-6	—	—	430 (950)	—	3395 (11'2")	3395 (11'2")	
D155AX-6	—	—	700 (1,545)	—	—	3395 (11'2")	
D275A-5	—	650 (1,430)***	1065 (2,350) ⁴	—	3990 (13'1")	3990 (13'1")	
D275A-5R							
D275AX-5E0	—	—	1060 (2,340)***	—	—	3990 (13'1")	
D375A-5	—	760 (1,680)***	1175 (2,590) ⁴	—	4230 (13'11")	4230 (13'11")	
D375A-5E0	—	—	1270 (2,800)***	—	—	4285 (14'1")	
D475A-5E0	—	—	1395 (3,070)***	—	—	4646 (15' 3")	
D475ASD-5E0	—	—	1395 (3,070)***	—	—	4646 (15' 3")	
D575A-3	—	1970 (4,340)***	2450 (5,400) ⁴	—	4880 (16')	4880 (16')	
D575A-3 SD	—	1970 (4,340)***	2450 (5,400) ⁴	—	4880 (16')	4880 (16')	

* : With ROPS brackets, except D65-12 and D85ESS-2A

*⁵ : Include floor sheet and air conditioner

** : With inside power angle-tilt dozer

*⁶ : Include floor sheet

*** : Two-pole type

*⁴ : ROPS & steel cab

SECTION **1B**

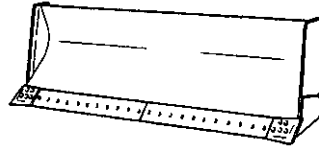
BULLDOZERS

CONTENTS

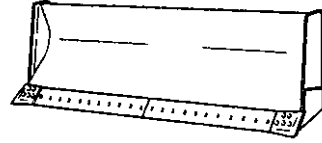
Blade Selection 1B-2
Blade Availability 1B-4
Blade Specifications:
 Straight-tilt dozer 1B-6
 Power-tilt power-pitch dozer 1B-7
 Angle dozer 1B-8
 Power Angle-tilt dozer 1B-10
 Semi-U-tilt dozer 1B-13
 Dual semi-U-tilt dozer 1B-15
 SIGMADOZER, Sigma power-pitch dozer 1B-16
 U-tilt dozer 1B-18
 Super Dozer 1B-21
 Coal Dozer 1B-22
Production 1B-23

Straight-tilt dozer

Having a high HP/ cutting edge length, this blade has an aggressive penetration. This blade also has a high HP/loose cubic yards for easy handling of heavy materials. The tilting function of this blade increases production and versatility. With a sturdy construction, this blade is suitable for powerful cutting and dozing, especially heavy cutting on rocky ground.

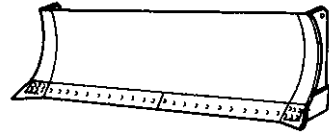
**Straight dozer**

This blade has the same structure and functions but is not equipped with a tilt-cylinder.

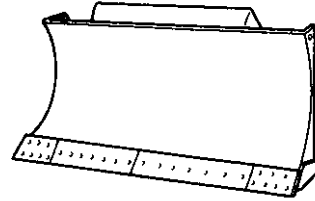
**Angle dozer**

The blade can be set straight or angled to both sides. Plowing earth or snow to one side is possible by angling the blade.

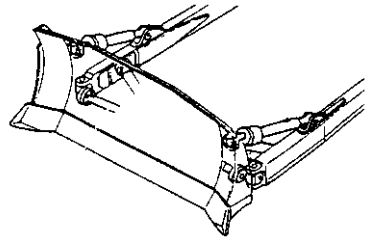
Useful for road construction, back filling etc.

**Power angle-tilt dozer**

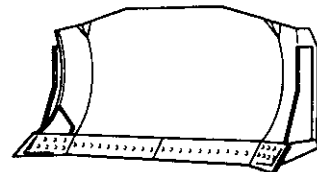
Power angling and tilting of the blade are possible from the operator seat. This blade is applicable for versatile works such as grading, back filling, spreading and light land clearing

**Dual tilt dozer**

The blade has two tilt cylinders on both sides. An optimum blade cutting angle for all types of materials and ground inclinations can be selected for increased loads and consequently increased production. A fast tilt speed and a large tilt angle also concentrate blade force where maximum penetration is needed.

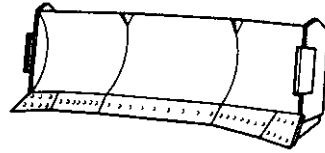
**Semi-U-tilt dozer**

The blade combines penetration ability of straight blade with increased load capacity provided by short wings which include only the end bits.

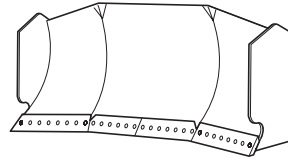


U-tiltblade

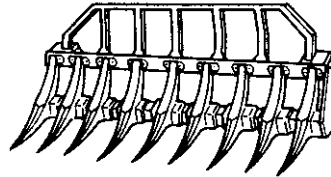
The wings on this blade minimize material spillage. Since this blade has a lower HP/loose cubic yards than a straight-tiltblade, this blade is suitable for moving lighter or loose materials over long distances. Suitable works are land reclamation, stockpiling and other similar jobs.

**Coal dozer**

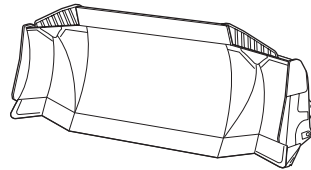
Specialized blade for pushing coal, with larger width and deep angled wings.

**Rake dozer**

Having teeth, this blade provides good penetration into the soil for removal of stumps, roots and rocks.

**SIGMADOZER**

A new frontal design concept adopted for digging and rolling up at the center of the blade increases soil holding capacity, simultaneously reducing sideways spillage. Reduced digging resistance produces smoother flow of earth, enabling the dozing of large quantities of soil with less power.



Attachment	Model	D21-8E0		D31-22		D37-22		D39-22		D51-22	
		A	P	EX	PX	EX	PX	EX	PX	EX	PX
Straight-tiltadozer											
Strengthened straight-tiltadozer											
Straight dozer											
Strengthened straight dozer											
Angle dozer											
Strengthened angle dozer											
Power angle-tiltadozer		○	○	○	○	○	○	○	○	○	○
Wide power angle-tiltadozer										○	
Mechanical angle power tiltadozer											
Semi-U-tiltadozer											
Strengthened semi-U-tiltadozer											
U-tiltadozer											
Mechanical tilt coal dozer											
Power tilt coal dozer											
Cushionadozer											
Welded type pusher plate											
Bolt-on type pusher plate											
Angle-rakedozer											
Straight-rakedozer											
Shear blade											
Trimming dozer											
Straight-rock rake dozer											
Power tilt and pitch dozer											

Attachment	Model	D61-15E0		D65-12		D65-16			D68-12	D85-2
		EX	PX	E	P	EX	PX	WX	ESS	ESS
Straight-tiltadozer				○	○	○	○			
Strengthened straight-tiltadozer										
Straight dozer										
Strengthened straight dozer										
Angle dozer				○		○			○	○
Strengthened angle dozer				○						
Power angle-tiltadozer		○	○			○	○	○	○	
Wide power angle-tiltadozer		○								
Mechanical angle power tiltadozer										
Semi-U-tiltadozer		○		○						
Strengthened semi-U-tiltadozer										
U-tiltadozer										
Strengthened U-tiltadozer										
Mechanical tilt coal dozer										
Power tilt coal dozer										
Cushion dozer										
Welded type pusher plate										
Bolt-on type pusher plate										
Angle-rake dozer										
Straight-rake dozer				○						
Shear blade										
Trimming dozer				○						
Straight rock rake dozer										
Semi-U-dual tiltadozer										
Strengthened semi-U-dual tiltadozer										
U-dual tiltadozer										
Strengthened U-dual tiltadozer										
Power tilt power pitch dozer			○		○		○			
SIGMADOZER						○		○		
Sigma power-pitch dozer						○		○		

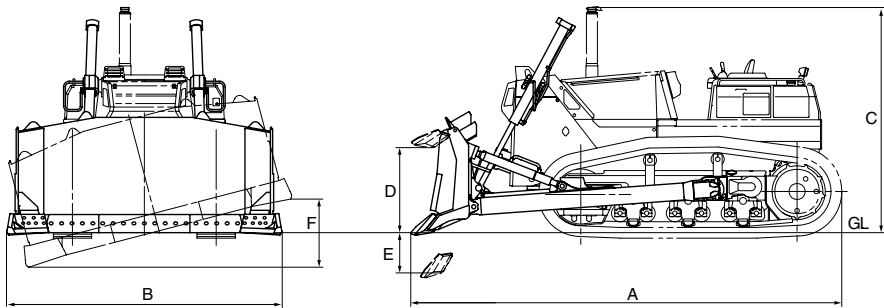
Attachment	Model	D85-2A	D85-15E0 D85-15R		D155-5	D155-6		D275-5	D275-5E0
		ESS	EX	PX	A	A	AX	A	AX
Straight-tiltdozer		○	○	○					
Strengthened straight-tiltdozer									
Straight dozer									
Strengthened straight dozer									
Angle dozer		○	○		○	○	○		
Strengthened angle dozer									
Power angle-tiltdozer									
Mechanical angle power tiltdozer			○						
Semi-U-tiltdozer		○	○		○	○	○	○	○
Strengthened semi-U-tiltdozer					○	○	○	○	○
U-tiltdozer					○	○	○	○	○
Strengthened U-tiltdozer					○	○	○	○	○
Mechanical tilt coal dozer					○				
Power tilt coal dozer					○				
Cushion dozer									
Welded type pusher plate					○			○	○
Bolt-on type pusher plate									
Angle-rake dozer									
Straight-rake dozer									
Shear Blade									
Trimming dozer									
Straight rock rake dozer									
Semi-U-dual tiltdozer							○	○	○
Strengthened semi-U-dual tiltdozer							○	○	○
U-dual tiltdozer							○	○	○
Strengthened U-dual tiltdozer							○	○	○
Super dozer									
SIGMADOZER						○	○		
Strengthened SIGMADOZER						○	○		

Attachment	Model	D275-5R	D375-5	D375-5R	D375-6R D375-6	D475-5E0		D575-3	
		A	A	A	A	A	A-5SD	A	A-3SD
Semi-U-tiltdozer		○	○	○	○	○			
Strengthened semi-U-tiltdozer		○	○	○	○	○		○	
U-tiltdozer		○	○	○		○		○	
Strengthened U-tiltdozer		○	○	○	○*	○			
Mechanical tilt coal dozer									
Power tilt coal dozer									
Cushion dozer									
Welded type pusher plate		○	○	○	○	○			
Bolt-on type pusher plate									
Angle-rake dozer									
Straight-rake dozer									
Shear Blade									
Trimming dozer									
Straight rock rake dozer									
Dual tilt semi-U-dozer		○	○	○	○	○			
Strengthened dual tilt semi-U-dozer		○	○	○	○	○			
U-dual tiltdozer		○	○	○		○		○	
Strengthened dual tilt U-dozer		○	○	○	○*	○			
Super dozer							○		○
SIGMADOZER									
Strengthened SIGMADOZER									

* : With spill guard

Blade Specifications Straight-tiltadozer

BULLDOZERS



Item		Model	D65E-12	D65P-12	D65EX-16***	D65PX-16***	
OPERATING WEIGHT*		kg (lb)	17620 (38,850)	18970 (41,820)	19180 (42,280)	20990 (46,270)	
BLADE CAPACITY		LH2** SAE	m ³ (yd ³)	5.12 (6.70) 3.89 (5.09)	4.80 (6.28) 3.69 (4.83)	5.12 (6.70) 3.89 (5.09)	4.80 (6.28) 3.69 (4.83)
DIMENSION*							
A	Overall length	mm (ft.in)	5260 (17'3")	5550 (18'3")	5420 (17' 9")	5825 (19'1")	
B	Overall width	mm (ft.in)	3415 (11'2")	3970 (13')	3415 (11' 2")	3970 (13'0")	
C	Overall height	mm (ft.in)	2980 (9'9")	3025 (9'11")	3155 (10'4") ^{*4}	3155 (10'4") ^{*4}	
	Ground pressure	kg/cm ² (PSI)	0.65 (9.24)	0.32 (4.55)	0.63 (8.98)	0.35 (4.98)	
DOZER EQUIPMENT							
	Weight (Includes hydraulic control unit)	kg (lb)	2600 (5,730)	2620 (5,780)	2060 (4540)	2100 (4,630)	
	Length	mm (ft.in)	3415 (11'2")	3970 (13')	3415 (11' 2")	3970 (13'0")	
	Height	mm (ft.in)	1225 (4'1")	1100 (3'7")	1225 (4'0")	1100 (3'7")	
D	Max. lift above ground	mm (ft.in)	1100 (3'7")	1200 (3'11")	1100 (3' 7")	1125 (3'8")	
E	Max. drop below ground	mm (ft.in)	450 (1'6")	445 (1'6")	435 (1' 5")	540 (1'9")	
F	Max. tilting adjustment	mm (ft.in)	870 (2'10")	890 (2'11")	870 (2'10")	890 (2'11")	
	Digging angle	degree	55	57	55	55	

Item		Model	D85ESS-2A	D85EX-15E0	D85EX-15R	D85PX-15E0	
OPERATING WEIGHT*		kg (lb)	18230 (40,190)	24550 (54,120)	24450 (53,900)	26870 (59,240)	
BLADE CAPACITY		LH2** SAE	m ³ (yd ³)	6.1 (7.98) 4.4 (5.76)	7.66 (10.02) 5.2 (6.8)	7.66 (10.02) 5.2 (6.8)	8.19 (10.72) 5.9 (7.7)
DIMENSION*							
A	Overall length	mm (ft.in)	5615 (18'5")	5640 (18'6")	5640 (18'6")	6065 (19'11")	
B	Overall width	mm (ft.in)	3620 (11'11")	3715 (12'2")	3715 (12'2")	4365 (14'4")	
C	Overall height	mm (ft.in)	2980 (9'9")	3330 (10'11")	3330 (10'11")	3330 (10'11")	
	Ground pressure	kg/cm ² (PSI)	0.60 (8.53)	0.72 (10.21)	0.72 (10.21)	0.42 (6.03)	
DOZER EQUIPMENT							
	Weight (Includes hydraulic control unit)	kg (lb)	2810 (6,190)	3329 (7,343)	3329 (7,343)	3366 (7,421)	
	Length	mm (ft.in)	3620 (11'11")	3715 (12'2")	3715 (12'2")	4365 (14'4")	
	Height	mm (ft.in)	1295 (4'3")	1436 (4'9")	1436 (4'9")	1370 (4'6")	
D	Max. lift above ground	mm (ft.in)	1070 (3'6")	1210 (4')	1210 (4')	1230 (4')	
E	Max. drop below ground	mm (ft.in)	590 (1'11")	540 (1'9")	540 (1'9")	570 (1'10")	
F	Max. tilting adjustment	mm (ft.in)	920 (3')	750 (2'6")	750 (2'6")	500 (1'8")	
	Digging angle	degree	55	55	55	55	

* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

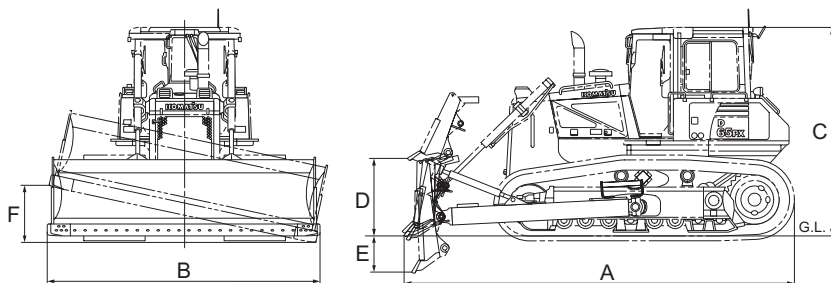
** : L: Blade length H: Blade height

*** : With ROPS cab

*4 : To top of ROPS cab

Blade Specifications Power-tilt power-pitch dozer

BULLDOZERS



FVBH0456

Item		Model	D65P-12	D65PX-16***		
OPERATING WEIGHT*		kg (lb)	19670 (43,360)	21050 (46,410)		
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	3.69 (4.83)	3.69 (4.83)		
DIMENSION*						
A	Overall length	mm (ft.in)	5520 (18'11")	5680 (18'8")		
B	Overall width	mm (ft.in)	3970 (13'0")	3970 (13'0")		
C	Overall height	mm (ft.in)	2990 (9'10")	3155 (10'4")*4		
	Ground pressure	kg/cm ² (PSI)	0.33 (4.69)	0.35 (4.98)		
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	2730 (6,020)	2160 (4,760)		
	Length	mm (ft.in)	3970 (13'0")	3970 (13'0")		
	Height	mm (ft.in)	1100 (3'7")	1100 (3'7")		
D	Max. lift above ground	mm (ft.in)	1105 (3'8")	1125 (3'8")		
E	Max. drop below ground	mm (ft.in)	540 (1'9")	540 (1'9")		
F	Max. tilting adjustment	mm (ft.in)	890 (2'11")	890 (2'11")		
	Digging angle (Available stepless angle adjustment)	degree	50 to 66	49 to 61		

* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

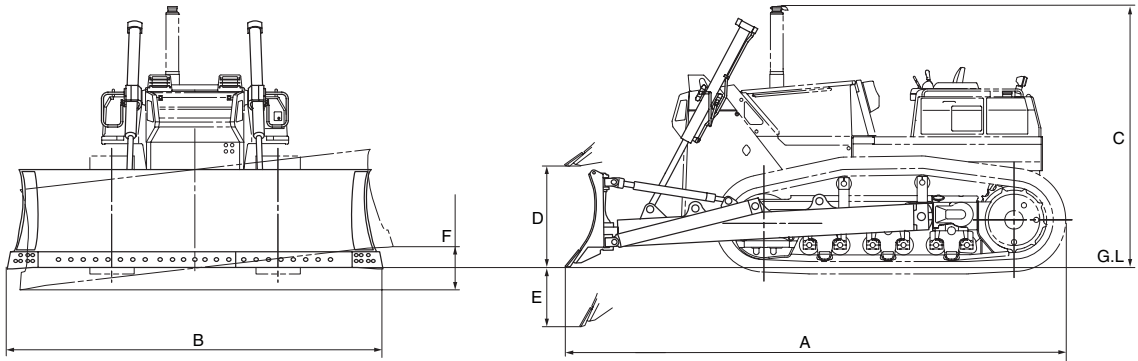
** : L: Blade length H: Blade height

*** : With ROPS cab

*4 : To top of ROPS cab

Blade Specifications Angle dozer

BULLDOZERS



Item		Model	D65E-12	D65EX-16	D68ESS-12	D85ESS-2
OPERATING WEIGHT*		kg (lb)	17690 (39,000)	19320 (42,590)	16940 (37,350)	19170 (42,260)
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	4.80 (6.28) 3.55 (4.64)	4.80 (6.28) 3.55 (4.64)	3.6 (4.71) 2.6 (3.40)	5.0 (6.54) 3.4 (4.45)
DIMENSION*						
A	Overall length	mm (ft.in)	5470 (17'11")	5630 (18'6")	5930 (19'5")	5930 (19'5")
B	Overall width	mm (ft.in)	3970 (13')	3970 (13'0")	3970 (13')	4370 (14'4")
C	Overall height	mm (ft.in)	2980 (9'9")	3155 (10'4")* ⁴	3140 (10'4")	2560 (8'5")
	Ground pressure	kg/cm ² (PSI)	0.65 (9.2)	0.64 (9.10)	0.54 (7.68)	0.52 (7.39)
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	2820 (6,220) 2930 (6,460)	2200 (4,850)	2660 (5,860)	2890 (6,370)
	Length	mm (ft.in)	3970 (13')	3970 (13'0")	3970 (13')	4370 (14'4")
	Height	mm (ft.in)	1100 (3'7")	1100 (3' 7")	950 (3'1")	1070 (3'6")
D	Max. lift above ground	mm (ft.in)	1180 (3'10")	1175 (3'10")	1205 (3'11")	1255 (4'1")
E	Max. drop below ground	mm (ft.in)	460 (1'6")	445 (1' 6")	535 (1'9")	485 (1'7")
F	Max. tilting adjustment	mm (ft.in)	400 (1'4")	400 (1' 4")	400 (1'4")	400 (1'4")
	Digging angle	degree	56.5	56	55	56

Item		Model	D85ESS-2A	D85EX-15E0	D85EX-15R	D155A-5
OPERATING WEIGHT*		kg (lb)	18850 (41,560)	24804 (54,680)	24704 (54,460)	33040 (72,840)
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	5.0 (6.54) 3.4 (4.45)	5.8 (7.6) 4.0 (5.2)	5.8 (7.6) 4.0 (5.2)	7.00 (9.16) 4.9 (6.4)
DIMENSION*						
A	Overall length	mm (ft.in)	5930 (19'5")	6035 (19'10")	6035 (19'10")	6502 (21'4")
B	Overall width	mm (ft.in)	4370 (14'4")	4515 (14'10")	4515 (14'10")	4850 (15'11")
C	Overall height	mm (ft.in)	2980 (9'9")	3330 (10'11")	3330 (10'11")	3395 (11'2")
	Ground pressure	kg/cm ² (PSI)	0.62 (8.82)	0.73 (10.39)	0.72 (10.24)	0.92 (13.1)
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	3430 (7,560)	3584 (7,900)	3584 (7,900)	5140 (11,330)
	Length	mm (ft.in)	4370 (14'4")	4515 (14'10")	4515 (14'10")	4850 (15'11")
	Height	mm (ft.in)	1070 (3'6")	1130 (3'8")	1130 (3'8")	1205 (3'11")
D	Max. lift above ground	mm (ft.in)	1255 (4'1")	1170 (3'10")	1170 (3'10")	1295 (4'3")
E	Max. drop below ground	mm (ft.in)	485 (1'7")	755 (2'6")	755 (2'6")	745 (2'5")
F	Max. tilting adjustment	mm (ft.in)	400 (1'4")	520 (1'8")	520 (1'8")	520 (1'8")
	Digging angle	degree	56	55	55	55

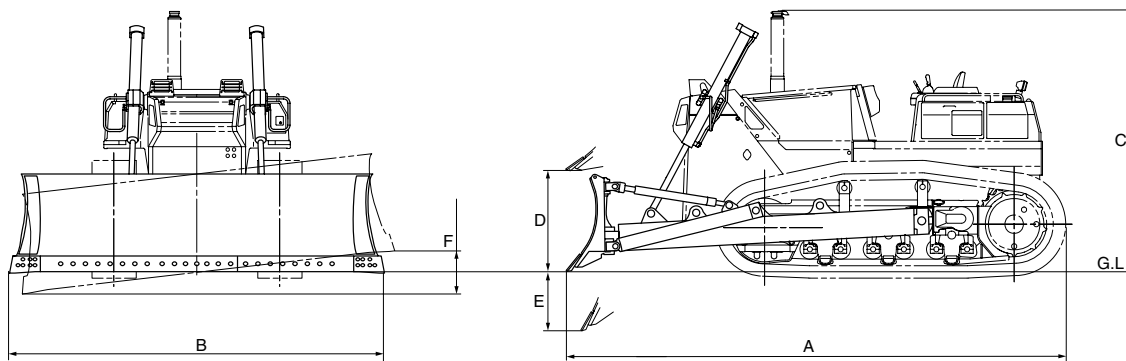
* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

** : L: Blade length H: Blade height

*4 : To top of ROPS cab

Blade Specifications Angle dozer

BULLDOZERS



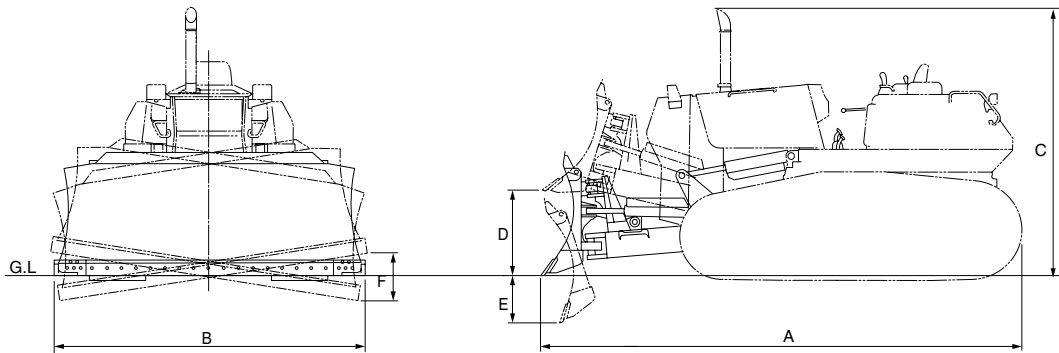
Item		Model	D155AX-6	D155A-6		
			kg (lb)	36170 (79,750)	37470 (82,610)	
OPERATING WEIGHT*		kg (lb)	36170 (79,750)	37470 (82,610)		
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	7.04 (9.21) 4.6 (6.0)	6.64 (8.69) 4.6 (6.0)		
DIMENSION*						
A	Overall length	mm (ft.in)	6743 (22'1")	6580 (21'7")		
B	Overall width	mm (ft.in)	4850 (15'11")	4850 (15'11")		
C	Overall height	mm (ft.in)	3385 (11'1")	3385 (11'1")		
	Ground pressure	kg/cm ² (PSI)	0.99 (14.02)	1.06 (15.07)		
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	5170 (11,400)	5170 (11,400)		
	Length	mm (ft.in)	4850 (15'11")	4850 (15'11")		
	Height	mm (ft.in)	1205 (3'11")	1170 (3'10")		
D	Max. lift above ground	mm (ft.in)	1562 (5'1")	1560 (5'1")		
E	Max. drop below ground	mm (ft.in)	664 (2'2")	660 (2'2")		
F	Max. tilting adjustment	mm (ft.in)	520 (1'8")	520 (1'8")		
	Digging angle	degree	56	56		

* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

** : L: Blade length H: Blade height

Blade Specifications Power Angle-tilt dozer

BULLDOZERS



Item		Model	D21A-8E0	D21P-8E0	D31EX-22***	D31PX-22***
OPERATING WEIGHT*		kg (lb)	3710 (8,180)	4100 (9,040)	7670 (16,910)	8130 (17,930)
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	0.76 (0.99) 0.57 (0.75)	0.89 (1.16) 0.68 (0.89)	1.80 (2.35) 1.61 (2.11)	1.83 (2.39) 1.61 (2.11)
DIMENSION*						
A	Overall length	mm (ft.in)	3250 (10'8")	3260 (10'8")	4175 (13'8")	4155 (13'8")
B	Overall width	mm (ft.in)	2170 (7'11")	2560 (8'5")	2550 (8'4")	3250 (10'8")
C	Overall height	mm (ft.in)	2315 (7'7")	2335 (7'8")	2760 (9'1")	2760 (9'1")
	Ground pressure	kg/cm ² (PSI)	0.37 (5.26)	0.24 (3.41)	0.44 (6.26)	0.31 (4.41)
DOZER EQUIPMENT						
	Type		Inside mount	Inside mount	Inside mount	Inside mount
	Weight (Includes hydraulic control unit)	kg (lb)	550 (1,210)	580 (1280)	1100 (2,430)	1220 (2,690)
	Length	mm (ft.in)	2170 (7'11")	2560 (8'5")	2550 (8'4")	3250 (10'8")
	Height	mm (ft.in)	590 (1'11")	590 (1'11")	840 (2'9")	750 (2'6")
D	Max. lift above ground	mm (ft.in)	790 (2'7")	850 (2'9")	870 (2'10")	860 (2'10")
E	Max. drop below ground	mm (ft.in)	385 (1'3")	325 (1'1")	390 (1'3")	380 (1'3")
F	Max. tilting adjustment	mm (ft.in)	250 (9'8")	280 (11")	350 (1'2")	440 (1'5")
	Angling angle (L/R)	degree	25/25	25/25	25/25	25/25

Item		Model	D37EX-22***	D37PX-22***	D39EX-22***	D39PX-22***
OPERATING WEIGHT*		kg (lb)	7890 (17,400)	8240 (18,170)	9040 (19,930)	9480 (20,900)
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	2.00 (2.62) 1.77 (2.32)	2.24 (3.52) 1.95 (2.55)	2.60 (3.40) 2.21 (2.89)	2.69 (3.52) 2.30 (3.00)
DIMENSION*						
A	Overall length	mm (ft.in)	4190 (13'9")	4175 (13'8")	4335 (14'3")	4335 (13'3")
B	Overall width	mm (ft.in)	2710 (8'11")	3250 (10'8")	2710 (8'11")	3250 (10'8")
C	Overall height	mm (ft.in)	2760 (9'1")	2760 (9'1")	2825 (9'3")	2825 (9'3")
	Ground pressure	kg/cm ² (PSI)	0.44 (6.26)	0.31 (4.41)	0.42 (5.97)	0.32 (4.55)
DOZER EQUIPMENT						
	Type		Inside mount	Inside mount	Inside mount	Inside mount
	Weight (Includes hydraulic control unit)	kg (lb)	1180 (2,600)	1250 (2,760)	1240 (2,730)	1320 (2,910)
	Length	mm (ft.in)	2710 (8'11")	3250 (10'8")	2710 (8'11")	3350 (11'0")
	Height	mm (ft.in)	860 (2'10")	830 (2'9")	980 (3'3")	910 (3'0")
D	Max. lift above ground	mm (ft.in)	880 (2'11")	870 (2'10")	900 (2'11")	900 (2'11")
E	Max. drop below ground	mm (ft.in)	400 (1'4")	390 (1'3")	450 (1'6")	450 (1'6")
F	Max. tilting adjustment	mm (ft.in)	370 (1'3")	440 (1'5")	370 (1'3")	440 (1'5")
	Angling angle (L/R)	degree	25/25	25/25	25/25	25/25

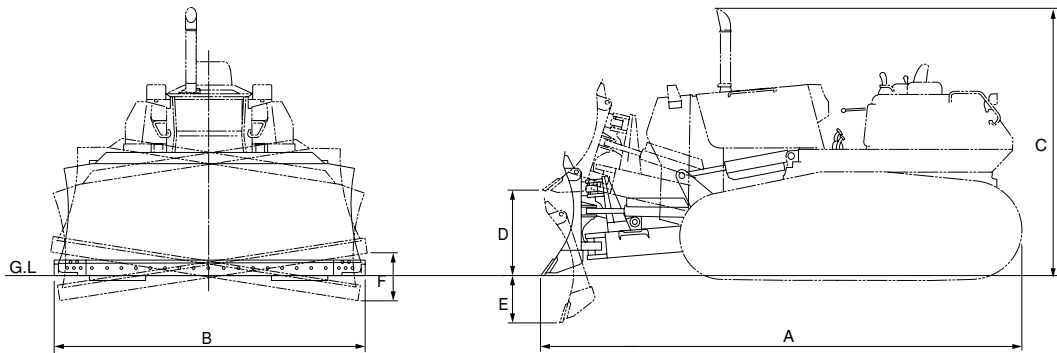
* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

** : L: Blade length H: Blade height

*** : With ROPS canopy

Blade Specifications Power Angle-tilt dozer

BULLDOZERS



Item		Model	D51EX-22	D51EX-22***	D51PX-22	D61EX-15E0	
OPERATING WEIGHT*		kg (lb)	12600(27,780)* ⁴	12695 (27,990)* ⁴	12700(28,000)* ⁴	16320 (35,980)	
BLADE CAPACITY		LH2** SAE	m ³ (yd ³)	3.8 (4.97) 2.7 (3.5)	4.7 (6.15) 2.9 (3.8)	4.1 (5.36) 2.9 (3.8)	4.7 (6.1) 3.4 (4.4)
DIMENSION*							
A	Overall length	mm (ft.in)	4800 (15'8")	4800 (15'8")	4800 (15'8")	5030 (16'6")	
B	Overall width	mm (ft.in)	3045 (10'0")	3350 (11'0")	3350 (11')	3275 (10'9")	
C	Overall height	mm (ft.in)	2885 (9'5")	2885 (9'5")	2885 (9'5")	2945 (9'8")	
	Ground pressure	kg/cm ² (PSI)	0.45 (6.4)	0.45 (6.4)	0.33 (4.69)	0.52 (7.39)	
DOZER EQUIPMENT							
	Type	kg (lb)	Inside mount	Inside mount	Inside mount	Inside mount	
	Weight (Includes hydraulic control unit)		1500 (3,310)	1595 (3,516)	1600 (3,530)	2400 (5,290)	
	Length	mm (ft.in)	3045 (10'0")	3350 (10'0")	3350 (11')	3275 (10'9")	
	Height	mm (ft.in)	1110 (3'8")	1110 (3'8")	1110 (3'8")	1200 (3'11")	
D	Max. lift above ground	mm (ft.in)	1107 (3'8")	1107 (3'8")	1107 (3'8")	980 (3'3")	
E	Max. drop below ground	mm (ft.in)	461 (1'6")	461 (1'6")	461 (1'6")	465 (1'6")	
F	Max. tilting adjustment	mm (ft.in)	459 (1'6")	505 (1'8")	505 (1'8")	510 (1'8")	
	Angling angle (L/R)	degree	28.5/28.5	28.5/28.5	28.5/28.5	25/25	

Item		Model	D61PX-15E0	D65EX-16* ⁴	D65PX-16* ⁴	D65WX-16* ⁴	
OPERATING WEIGHT*		kg (lb)	18320 (40,390)	20990 (46,270)	21860 (48,190)	21890 (48,260)	
BLADE CAPACITY		LH2** SAE	m ³ (yd ³)	5.19 (6.79) 3.8 (5.0)	4.25 (5.56)	4.42 (5.78)	4.42 (5.78)
DIMENSION*							
A	Overall length	mm (ft.in)	5465 (17'11")	5790 (19'0")	5790 (19'0")	5790 (19'0")	
B	Overall width	mm (ft.in)	3860 (12'8")	3870 (12'8")	4010 (13'2")	4010 (13'2")	
C	Overall height	mm (ft.in)	2970 (9'9")	3080 (10'1")	3080 (10'1")	3080 (10'1")	
	Ground pressure	kg/cm ² (PSI)	0.34 (4.83)	0.63 (8.96)	0.44 (6.26)	0.48 (6.83)	
DOZER EQUIPMENT							
	Type	kg (lb)	Inside mount	Inside mount	Inside mount	Inside mount	
	Weight (Includes hydraulic control unit)		2700 (5,950)	2960 (6,530)	2990 (6,590)	2990 (6,590)	
	Length	mm (ft.in)	3860 (12'8")	3870 (12'8")	4010 (13'2")	4010 (13'2")	
	Height	mm (ft.in)	1160 (3'10")	1235 (4'1")	1235 (4'1")	1235 (4'1")	
D	Max. lift above ground	mm (ft.in)	1025 (3'4")	1165 (3'10")	1165 (3'10")	1165 (3'10")	
E	Max. drop below ground	mm (ft.in)	580 (1'11")	700 (2'4")	700 (2'4")	700 (2'4")	
F	Max. tilting adjustment	mm (ft.in)	600 (2'0")	500 (1'8")	520 (1'8")	520 (1'8")	
	Angling angle (L/R)	degree	25/25	25/25	25/25	25/25	

* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

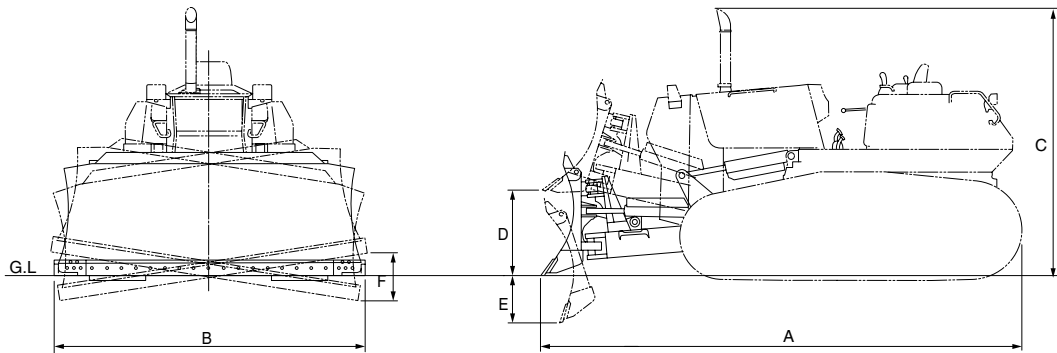
** : L: Blade length H: Blade height

*** : With wide power angle-tilt dozer

*⁴ : With ROPS cab.

Blade Specifications Power Angle-tilt dozer

BULLDOZERS



Item		Model	D68ESS-12 ^{*4}	D85EX-15E0 ^{*5} D85EX-15R ^{*5}		
OPERATING WEIGHT*		kg (lb)	18,800 (41,500)	24970 (55,050) 24870 (54,830)		
BLADE CAPACITY LH2 ^{**} SAE		m ³ (yd ³)	3.4 (4.45)	5.77 (7.55) 4.0 (5.2)		
DIMENSION*						
A	Overall length	mm (ft.in)	6,120 (20'1")	6035 (19'10")		
B	Overall width	mm (ft.in)	3,275 (10'9")	4515 (14'10")		
C	Overall height	mm (ft.in)	3,135 (10'3")	3330 (10'11")		
	Ground pressure	kg/cm ² (PSI)	0.53 (7.53)	0.73 (10.38) 0.73 (10.38)		
DOZER EQUIPMENT						
	Type		Inside mount	Outside mount		
	Weight (Includes hydraulic control unit)	kg (lb)	2,360 (5,205)	3754 (8,276)		
	Length	mm (ft.in)	3275 (10'9")	4515 (14'10")		
	Height	mm (ft.in)	1200 (3'11")	1130 (3'11")		
D	Max. lift above ground	mm (ft.in)	1055 (3'6")	1173 (3'10")		
E	Max. drop below ground	mm (ft.in)	560 (1'10")	760 (2'6")		
F	Max. tilting adjustment	mm (ft.in)	510 (1'9")	520 (1'8")		
	Angling angle (L/R)	degree	25/25	25/25		

* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

** : L: Blade length H: Blade height

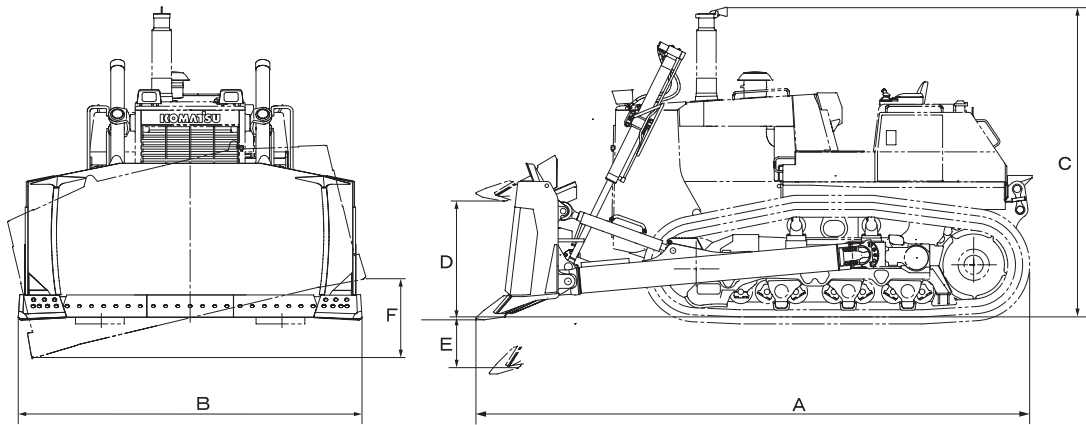
*** : With wide power angle-tilt dozer

*4 : With sweep guard

*5 : Mechanical angle-tilt dozer

Blade Specifications Semi-U-tiltdozer

BULLDOZERS



FVBH0229

Item		Model	D61EX-15E0	D65E-12	D85ESS-2A	D85EX-15E0 D85EX-15R
OPERATING WEIGHT*		kg (lb)	16350 (36,050)	18500 (40,780)	18530 (40,850)	24820 (54,720) 24720 (54,500)
BLADE CAPACITY LH ^{2**} SAE		m ³ (yd ³)	5.4 (7.1) 4.3 (5.6)	6.8 (8.9) 5.6 (7.3)	8.90 (11.64) 6.8 (8.9)	9.07 (11.87) 7.0 (9.2)
DIMENSION*						
A	Overall length	mm (ft.in)	5050 (16'7")	5440 (17'10")	5770 (18'11")	5795 (19')
B	Overall width	mm (ft.in)	3175 (10'5")	3460 (11'4")	3640 (11'11")	3635 (11'11")
C	Overall height	mm (ft.in)	2945 (8'2")	2990 (9'10")	2980 (9'9")	3330 (10'11")
	Ground pressure	kg/cm ² (PSI)	0.52 (7.39)	0.68 (9.67)	0.61 (8.67)	0.73 (10.32)
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	2430 (5,360)	2880 (6,350)	3110 (6,860)	3599 (7,943)
	Length	mm (ft.in)	3175 (10'5")	3460 (11'4")	3640 (11'11")	3635 (11'11")
	Height	mm (ft.in)	1300 (4'3")	1425 (4'8")	1565 (5'2")	1580 (5'2")
D	Max. lift above ground	mm (ft.in)	970 (3'2")	1105 (3'8")	1070 (3'6")	1210 (4')
E	Max. drop below ground	mm (ft.in)	545 (1'9")	440 (1'5")	590 (1'11")	540 (1'9")
F	Max. tilting adjustment	mm (ft.in)	690 (2'3")	465 (1'6")	460 (1'6")	735 (2'5")

Item		Model	D155A-5	D155AX-6	D155A-6	D275AX-5E0 D275A-5 D275A-5R
OPERATING WEIGHT*		kg (lb)	32800 (72,310)	35960 (79,280)	37260 (82,140) 37920(83,600)* ⁴	45190 (99,630)
BLADE CAPACITY LH ^{2**} SAE		m ³ (yd ³)	11.7 (15.3) 8.8 (11.5)	13.23 (17.31) 9.4 (12.3)	13.2 (17.3) 9.4 (12.3)	16.5 (21.6) 13.7 (17.9)
DIMENSION*						
A	Overall length	mm (ft.in)	6300 (20'8")	6175 (20'3")	6010 (19'9")	6930 (22'9")
B	Overall width	mm (ft.in)	3955 (13')	4130 (13'7")	4130 (13'7")	4300 (14'1")
C	Overall height	mm (ft.in)	3395 (11'2")	3385 (11'1")	3385 (11'1")	3965 (13'0")
	Ground pressure	kg/cm ² (PSI)	0.91 (12.94) 0.95 (13.51)	0.98 (13.94)	1.06 (15.07) 1.07 (15.22)* ⁴	1.06 (15.07) 1.06 (15.07)
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	4900 (10,800)	4960 (10,936)	4960 (10,936)	7507 (16,550)
	Length	mm (ft.in)	3955 (13')	4130 (13'7")	4130 (13'7")	4300 (14'1")
	Height	mm (ft.in)	1720 (5'8")	1790 (5'10")	1790 (5'10")	1960 (6'5")
D	Max. lift above ground	mm (ft.in)	1250 (4'1")	1255 (4'1")	1250 (4'1")	1450 (4'9")
E	Max. drop below ground	mm (ft.in)	590 (1'11")	593 (1'11")	590 (1'11")	640 (2'1")
F	Max. tilting adjustment	mm (ft.in)	1000 (3'3")	953 (3')	950 (3'1")	1000 (3'3")

* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

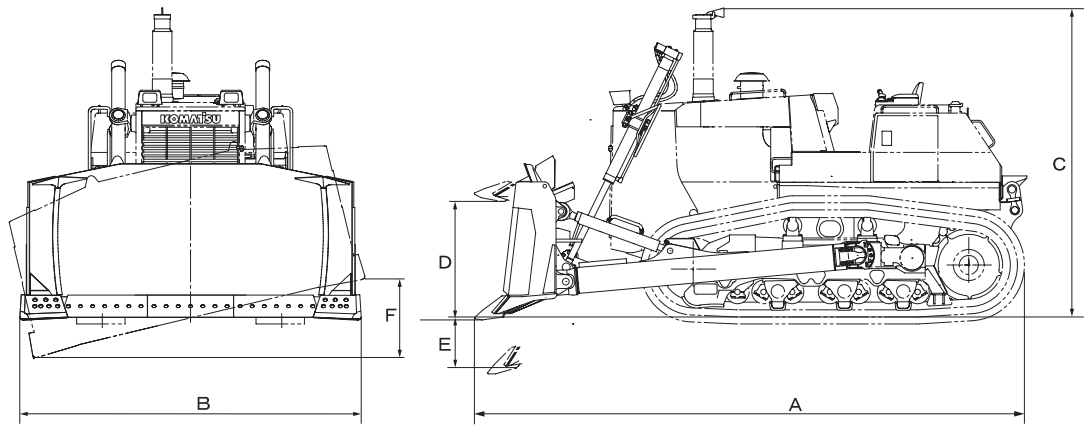
** : L: Blade length H: Blade height

*** : Dual tiltdozer

*4 : Strengthend type

Blade Specifications Semi-U-tiltadozer

BULLDOZERS



FVBH0229

Item		Model	D275AX-5E0*** D275A-5*** D275A-5R***	D375A-5	D375A-5R	D375A-6
OPERATING WEIGHT*		kg (lb)	45270 (99,800)	60340 (133,030)	61630 (135,870)	64165 (141,460)
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	16.5 (21.6) 13.7 (17.9)	24.0 (31.4) 18.5 (24.2)	24.0 (31.4) 18.5 (24.2)	24.0 (31.4) 18.5 (24.2)
DIMENSION*						
A	Overall length	mm (ft.in)	6930 (22'9")	7635 (25'1")	7715 (25'4")	7780 (25'6")
B	Overall width	mm (ft.in)	4300 (14'1")	4695 (15'5")	4695 (15'5")	4695 (15'5")
C	Overall height	mm (ft.in)	3965 (13'0")	4035 (13'3")	4215 (13'10")	4265 (14'0")
	Ground pressure	kg/cm ² (PSI)	1.09 (15.50)	1.29 (18.34)	1.32 (18.77)	1.32 (18.77)
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	7590 (16,730)	10540 (23,240)	10910 (24,050)	10965 (24,170)
	Length	mm (ft.in)	4300 (14'1")	4695 (15'5")	4695 (15'5")	4695 (15'5")
	Height	mm (ft.in)	1960 (6'5")	2265 (7'5")	2265 (7'5")	2265 (7'5")
D	Max. lift above ground	mm (ft.in)	1450 (4'9")	1660 (5'5")	1660 (5'5")	1690 (5'7")
E	Max. drop below ground	mm (ft.in)	640 (2'1")	715 (2'4")	715 (2'4")	735 (2'5")
F	Max. tilting adjustment	mm (ft.in)	1140 (3'9")	1065 (3'6")	1065 (3'6")	970 (3'2")

Item		Model	D375A-6R		
OPERATING WEIGHT*		kg (lb)	62765 (138,370)		
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	24.0 (31.4) 18.5 (24.2)		
DIMENSION*					
A	Overall length	mm (ft.in)	7820 (25'8")		
B	Overall width	mm (ft.in)	4695 (15'5")		
C	Overall height	mm (ft.in)	4215 (13'10")		
	Ground pressure	kg/cm ² (PSI)	1.34 (19.05)		
DOZER EQUIPMENT					
	Weight (Includes hydraulic control unit)	kg (lb)	10965 (24,170)		
	Length	mm (ft.in)	4695 (15'5")		
	Height	mm (ft.in)	2265 (7'5")		
D	Max. lift above ground	mm (ft.in)	1642 (5'5")		
E	Max. drop below ground	mm (ft.in)	800 (2'7")		
F	Max. tilting adjustment	mm (ft.in)	970 (3'2")		

* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

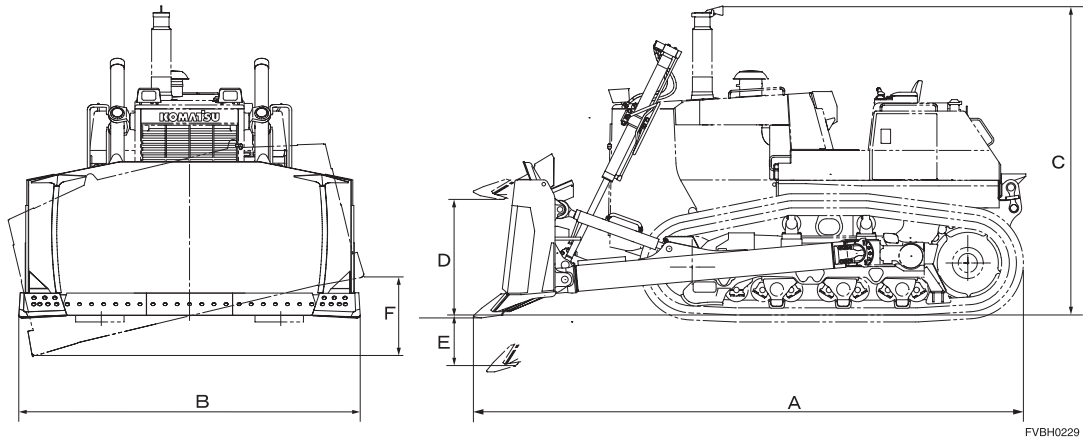
** : L: Blade length H: Blade height

*** : Dual tiltadozer

*4 : Strengthened type

Blade Specifications Dual semi-U-tiltdozer

BULLDOZERS



FVBH0229

Item		Model	D375A-5***	D375A-5R***	D375A-6***	D375A-6R***
OPERATING WEIGHT*		kg (lb)	61590 (135,780)	62010 (136,710)	64820 (142,900)	62950 (138,780)
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	24.0 (31.4) 18.5 (24.2)	24.0 (31.4) 18.5 (24.2)	24.0 (31.4) 18.5 (24.2)	24.0 (31.4) 18.5 (24.2)
DIMENSION*						
A	Overall length	mm (ft.in)	7635 (25'1")	7715 (25'4")	7780 (25'6")	7820 (17240)
B	Overall width	mm (ft.in)	4695 (15'5")	4695 (15'5")	4695 (15'5")	4695 (15'5")
C	Overall height	mm (ft.in)	4035 (13'3")	4215 (13'10")	4265 (7'5")	4265 (7'5")
	Ground pressure	kg/cm ² (PSI)	1.31 (18.63)	1.32 (18.77)	1.33 (18.91)	1.34 (19.05)
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	11790 (25,990)	11290 (24,890)	11620 (25,620)	11150 (24,580)
	Length	mm (ft.in)	4695 (15'5")	4695 (15'5")	4695 (15'5")	4695 (15'5")
	Height	mm (ft.in)	2265 (7'5")	2265 (7'5")	2265 (7'5")	2265 (7'5")
D	Max. lift above ground	mm (ft.in)	1660 (5'5")	1660 (5'5")	1690 (5'7")	1642 (5'5")
E	Max. drop below ground	mm (ft.in)	715 (2'4")	715 (2'4")	735 (2'5")	800 (2'7")
F	Max. tilting adjustment	mm (ft.in)	1165 (3'10")	1150 (3'9")	1185 (3'11")	1185 (3'11")

Item		Model	D475A-5E0***			
OPERATING WEIGHT*		kg (lb)	100540 (221,658)			
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	38.1 (49.83) 27.2 (35.6)			
DIMENSION*						
A	Overall length	mm (ft.in)	8705 (28'7")			
B	Overall width	mm (ft.in)	5265 (17'3")			
C	Overall height	mm (ft.in)	4546 (14'11")			
	Ground pressure	kg/cm ² (PSI)	1.57 (22.25)			
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	16950 (37,370)			
	Length	mm (ft.in)	5265 (17'3")			
	Height	mm (ft.in)	2690 (8'10")			
D	Max. lift above ground	mm (ft.in)	1620 (5'4")			
E	Max. drop below ground	mm (ft.in)	1010 (3'4")			
F	Max. tilting adjustment	mm (ft.in)	1145 (3'9")			

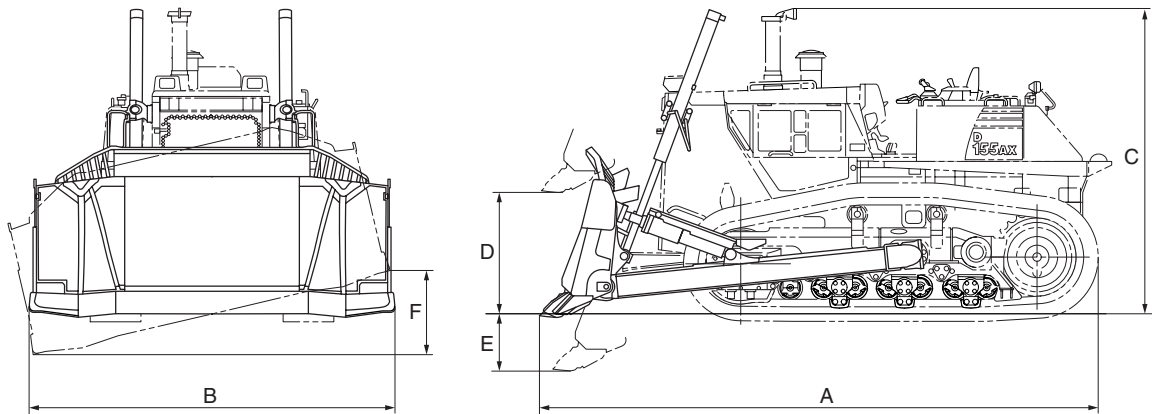
* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

** : L: Blade length H: Blade height

*** : Dual semi-U-tilt dozer

Blade Specifications SIGMADOZER, Sigma power-pitch dozer

BULLDOZERS



FVBH0387

Item		Model	D65EX-16*6	D65EX-16*6*7	D65WX-16*6	D65WX-6*6*7
OPERATING WEIGHT*		kg (lb)	19510 (43,010)	19560 (43,120)	20360 (44,880)	20410 (45,000)
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	5.61 (7.34)	5.61 (7.34)	5.90 (7.72)	5.90 (7.72)
DIMENSION*						
A	Overall length	mm (ft.in)	5490 (18'0")	5490 (18'0")	5500 (18'1")	5500 (18'1")
B	Overall width	mm (ft.in)	3410 (11'2")	3410 (11'2")	3580 (11'9")	3580 (11'9")
C	Overall height	mm (ft.in)	3155 (10'4")	3155 (10'4")	3155 (10'4")	3155 (10'4")
	Ground pressure	kg/cm ² (PSI)	0.64 (9.10)	0.64 (9.10)	0.45 (6.40)	0.45 (6.40)
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	2390 (5,270)	2440 (5,380)	2500 (5,510)	2550 (5,620)
	Length	mm (ft.in)	3410 (11'2")	3410 (11'2")	3580 (11'9")	3580 (11'9")
	Height	mm (ft.in)	1425 (4'8")	1425 (4'8")	1425 (4'8")	1425 (4'8")
D	Max. lift above ground	mm (ft.in)	1130 (3'8")	1130 (3'8")	1130 (3'8")	1130 (3'8")
E	Max. drop below ground	mm (ft.in)	505 (1'8")	505 (1'8")	505 (1'8")	505 (1'8")
F	Max. tilting adjustment	mm (ft.in)	870 (2'10")	870 (2'10")	770 (2'6")	770 (2'6")
	Digging angle	degree	46	46	46	46

Item		Model	D155AX-6	D155AX-6***	D155AX-6*4	D155AX-6*5
OPERATING WEIGHT*		kg (lb)	35940 (79,240)	35940 (79,240)	36360 (80,160)	36360 (80,160)
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	13.9 (18.17)	13.9 (18.17)	13.9 (18.17)	13.9 (18.17)
DIMENSION*						
A	Overall length	mm (ft.in)	6125 (20'1")	6125 (20'1")	6125 (20'1")	6125 (20'1")
B	Overall width	mm (ft.in)	4060 (13'4")	4060 (13'4")	4060 (13'4")	4060 (13'4")
C	Overall height	mm (ft.in)	3385 (11'1")	3385 (11'1")	3385 (11'1")	3385 (11'1")
	Ground pressure	kg/cm ² (PSI)	0.98 (13.92)	0.98 (13.92)	0.99 (14.1)	0.99 (14.1)
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	4940 (10,890)	4940 (10,890)	5360 (11,820)	5360 (11,820)
	Length	mm (ft.in)	4060 (13'4")	4060 (13'4")	4060 (13'4")	4060 (13'4")
	Height	mm (ft.in)	1850 (6'1")	1850 (6'1")	1850 (6'1")	1850 (6'1")
D	Max. lift above ground	mm (ft.in)	1320 (4'4")	1320 (4'4")	1320 (4'4")	1320 (4'4")
E	Max. drop below ground	mm (ft.in)	617 (2')	617 (2')	617 (2')	617 (2')
F	Max. tilting adjustment	mm (ft.in)	920 (3')	920 (3')	920 (3')	920 (3')
	Digging angle	degree	46	46	46	46

* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

** : L: Blade length H: Blade height

*** : Dual tilt/dozer

*4 : Strengthened type

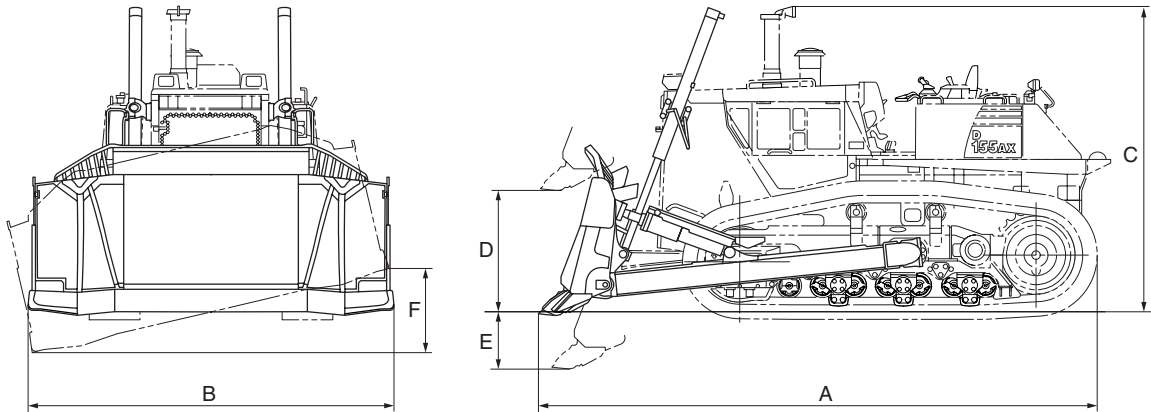
*5 : Strengthened dual tilt/dozer

*6 : With ROPS cab

*7 : With sigma power-pitch dozer

Blade Specifications SIGMADOZER, Sigma power-pitch dozer

BULLDOZERS



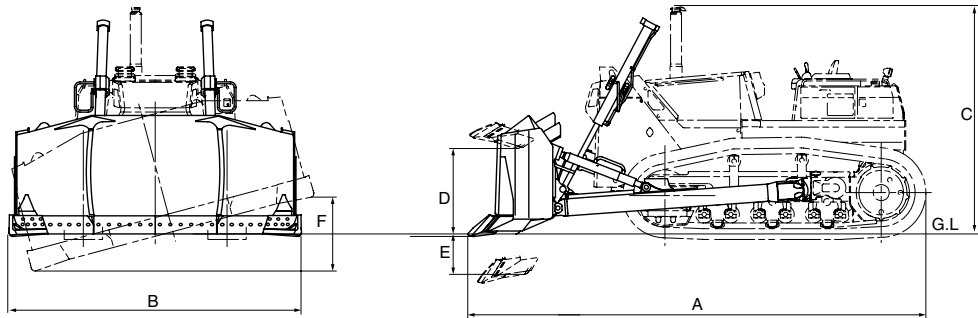
FVBH0387

Item		Model	D155A-6	D155A-6***		
OPERATING WEIGHT*		kg (lb)	37240 (82,100) 37660 (83,030) ⁴	37660 (83,030)		
BLADE CAPACITY LH ² ** SAE		m ³ (yd ³)	13.9 (18.17) 9.4 (12.3)	13.9 (18.17) 9.4 (12.3)		
DIMENSION*						
A	Overall length	mm (ft.in)	6125 (20'1")	6125 (20'1")		
B	Overall width	mm (ft.in)	4060 (13'4")	4060 (13'4")		
C	Overall height	mm (ft.in)	3385 (11'1")	3385 (11'1")		
	Ground pressure	kg/cm ² (PSI)	1.06 (15.07)	1.07 (15.22)		
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	4940 (10,890)	5360 (11,820)		
	Length	mm (ft.in)	4060 (13'4")	4060 (13'4")		
	Height	mm (ft.in)	1850 (6'1")	1850 (6'1")		
D	Max. lift above ground	mm (ft.in)	1320 (4'4")	1320 (4'4")		
E	Max. drop below ground	mm (ft.in)	617 (2')	617 (2')		
F	Max. tilting adjustment	mm (ft.in)	920 (3')	920 (2')		
	Digging angle	degree	46	46		

- * : Including dozer equipment in addition to bare tractor, excluding ROPS and cab
- ** : L: Blade length H: Blade height
- *** : Dual tiltdozer
- *4 : Strengthened type

Blade Specifications U-tiltdozer

BULLDOZERS



Item		Model	D155A-5	D155AX-6	D155A-6	D155A-2A
OPERATING WEIGHT*		kg (lb)	33500 (73,850)	36630 (80,770)	37930 (83,620)	44180 (97,400)
BLADE CAPACITY		LH2** SAE	m ³ (yd ³)	13.2 (17.3) 11.8 (15.4)	13.5 (17.7) 11.9 (15.6)	13.5 (17.7) 11.9 (15.6)
DIMENSION*						
A	Overall length	mm (ft.in)	6695 (22')	6590 (21'7")	6430 (21'1")	6975 (22'11")
B	Overall width	mm (ft.in)	4265 (14')	4225 (13'10")	4225 (13'10")	4225 (13'10")
C	Overall height	mm (ft.in)	3395 (11'2")	3385 (11'1")	3385 (11'1")	3725 (12'3")
	Ground pressure	kg/cm ² (PSI)	0.93 (13.22) 0.97 (13.79)	1.00 (14.19)	1.08 (15.36)	1.00 (14.22)
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	5600 (12,350)	5630 (12,420)	5630 (12,410)	7400 (16,310)
	Length	mm (ft.in)	4265 (14')	4225 (13'10")	4225 (13'10")	4225 (13'10")
	Height	mm (ft.in)	1760 (5'9")	1790 (5'10")	1790 (5'10")	1790 (5'10")
D	Max. lift above ground	mm (ft.in)	1250 (4'1")	1255 (4'1")	1250 (4'1")	1560 (5'1")
E	Max. drop below ground	mm (ft.in)	590 (1'11")	593 (1'11")	590 (1'11")	560 (1'10")
F	Max. tilting adjustment	mm (ft.in)	1080 (3'7")	970 (3'2")	970 (3'2")	1020 (3'4")

Item		Model	D275A-5	D275AX-5E0 D275A-5R	D275A-5***	D275AX-5E0*** D275A-5R***
OPERATING WEIGHT*		kg (lb)	46110 (101,650)	46110 (101,650)	46200 (101,850)	46200 (101,850)
BLADE CAPACITY		LH2** SAE	m ³ (yd ³)	18.0 (23.5) 16.6 (21.7)	18.0 (23.5) 16.6 (21.7)	18.0 (23.5) 16.6 (21.7)
DIMENSION*						
A	Overall length	mm (ft.in)	7265 (23'10")	7265 (23'10")	7265 (23'10")	7265 (23'10")
B	Overall width	mm (ft.in)	4615 (15'2")	4615 (15'2")	4615 (15'2")	4615 (15'2")
C	Overall height	mm (ft.in)	3965 (13'0")	3915 (12'10")	3965 (13'0")	3915 (12'10")
	Ground pressure	kg/cm ² (PSI)	1.09 (15.5)	1.09 (15.5)	1.09 (15.50)	1.09 (15.50)
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	8433 (18,590)	8433 (18,590)	8516 (18,770)	8516 (18,770)
	Length	mm (ft.in)	4615 (15'2")	4615 (15'2")	4615 (15'2")	4615 (15'2")
	Height	mm (ft.in)	1973 (6'6")	1973 (6'6")	1973 (6'6")	1973 (6'6")
D	Max. lift above ground	mm (ft.in)	1450 (4'9")	1450 (4'9")	1450 (4'9")	1450 (4'9")
E	Max. drop below ground	mm (ft.in)	640 (2'1")	640 (2'1")	640 (2'1")	640 (2'1")
F	Max. tilting adjustment	mm (ft.in)	1070 (3'6")	1070 (3'6")	1220 (4'0")	1220 (4'0")

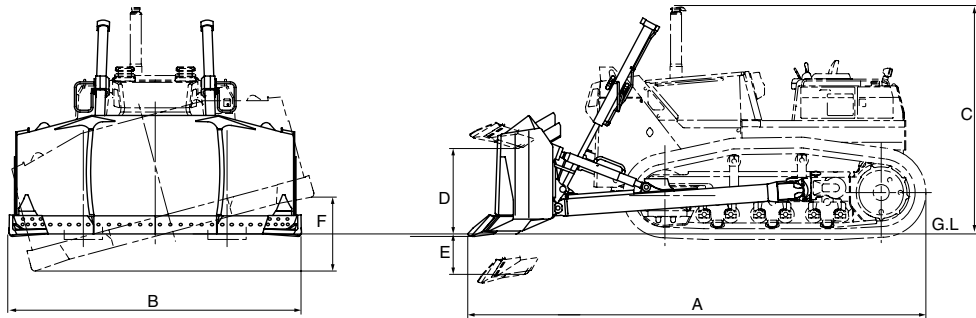
* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

** : L: Blade length H: Blade height

*** : Dual tiltdozer

Blade Specifications U-tiltdozer

BULLDOZERS



Item		Model	D375A-5	D375A-5***	D375A-5R	D375A-5R***
OPERATING WEIGHT*		kg (lb)	61590 (135,780)	61970 (136,620)	63140 (139,200)	63520 (140,040)
BLADE CAPACITY		m ³ (yd ³)	26.3 (34.4)	26.3 (34.4)	26.3 (34.4)	26.3 (34.4)
		SAE	22.0 (28.8)	22.0 (28.8)	22.0 (28.8)	22.0 (28.8)
DIMENSION*						
A	Overall length	mm (ft.in)	8000 (26'5")	8000 (26'5")	8130 (26'8")	8130 (26'8")
B	Overall width	mm (ft.in)	5140 (16'10")	5140 (16'10")	5140 (16'10")	5140 (16'10")
C	Overall height	mm (ft.in)	4035 (13'3")	4035 (13'3")	4215 (13'10")	4215 (13'10")
	Ground pressure	kg/cm ² (PSI)	1.31 (18.63)	1.32 (18.77)	1.35 (19.2)	1.36 (19.3)
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	11790 (25,990)	12170 (26,830)	12420 (27,380)	12800 (28,220)
	Length	mm (ft.in)	5140 (16'10")	5140 (16'10")	5140 (16'10")	5140 (16'10")
	Height	mm (ft.in)	2265 (7'5")	2265 (7'5")	2265 (7'5")	2265 (7'5")
D	Max. lift above ground	mm (ft.in)	1660 (5'5")	1660 (5'5")	1660 (5'5")	1660 (5'5")
E	Max. drop below ground	mm (ft.in)	715 (2'4")	715 (2'4")	715 (2'4")	715 (2'4")
F	Max. tilting adjustment	mm (ft.in)	1165 (3'10")	1260 (4'2")	1165 (3'10")	1260 (4'2")

Item		Model	D375A-6*4	D375A-6*** *4	D375A-6R*4	D375A-6R*** *4
OPERATING WEIGHT*		kg (lb)	65665 (144,770)	65850 (145,170)	64265 (141,680)	64450 (142,090)
BLADE CAPACITY		m ³ (yd ³)	26.3 (34.4)	26.3 (34.4)	26.3 (34.4)	26.3 (34.4)
		SAE	22.0 (28.8)	22.0 (28.8)	22.0 (28.8)	22.0 (28.8)
DIMENSION*						
A	Overall length	mm (ft.in)	8140 (26'8")	8140 (26'8")	8180 (26'8")	8180 (26'8")
B	Overall width	mm (ft.in)	5140 (16'10")	5140 (16'10")	5140 (16'10")	5140 (16'10")
C	Overall height	mm (ft.in)	4265 (7'5")	4265 (7'5")	4215 (13'10")	4215 (13'10")
	Ground pressure	kg/cm ² (PSI)	1.35 (18.77)	1.36 (18.91)	1.37 (19.48)	1.38 (19.62)
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	12465 (27,480)	12650 (27,890)	12465 (27,480)	12650 (27,890)
	Length	mm (ft.in)	5140 (16'10")	5140 (16'10")	5140 (16'10")	5140 (16'10")
	Height	mm (ft.in)	2265 (7'5")	2265 (7'5")	2265 (7'5")	2265 (7'5")
D	Max. lift above ground	mm (ft.in)	1690 (5'7")	1690 (5'7")	1642 (5'5")	1642 (5'5")
E	Max. drop below ground	mm (ft.in)	735 (2'5")	735 (2'5")	800 (2'7")	800 (2'7")
F	Max. tilting adjustment	mm (ft.in)	1065 (3'6")	1300 (4'3")	1065 (3'6")	1300 (4'3")

* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

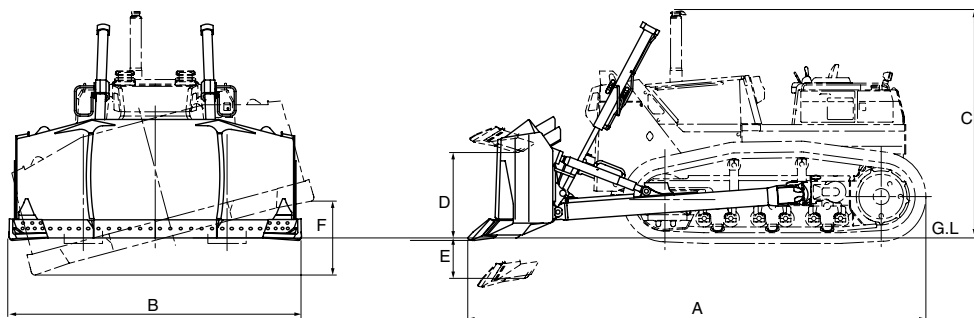
** : L: Blade length H: Blade height

*** : Dual tiltdozer

*4 : With spill guard

Blade Specifications U-tiltdozer

BULLDOZERS



Item		Model	D475A-5E0			
OPERATING WEIGHT*		kg (lb)	102390 (225,736)			
BLADE CAPACITY LH2**		m ³ (yd ³)	42.27 (55.3)			
SAE			34.4 (45.0)			
DIMENSION*						
A	Overall length	mm (ft.in)	9205 (30'2")			
B	Overall width	mm (ft.in)	6205 (20'4")			
C	Overall height	mm (ft.in)				
	Ground pressure	kg/cm ² (PSI)	1.59 (22.65)			
DOZER EQUIPMENT						
	Weight (Includes hydraulic control unit)	kg (lb)	18800 (41,446)			
	Length	mm (ft.in)	6205 (20'4")			
	Height	mm (ft.in)	2610 (8'7")			
D	Max. lift above ground	mm (ft.in)	1620 (5'4")			
E	Max. drop below ground	mm (ft.in)	1010 (3'4")			
F	Max. tilting adjustment	mm (ft.in)	905 (3')			

* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

** : L: Blade length H: Blade height

Blade Specifications U-tiltdozer, Super Dozer

BULLDOZERS

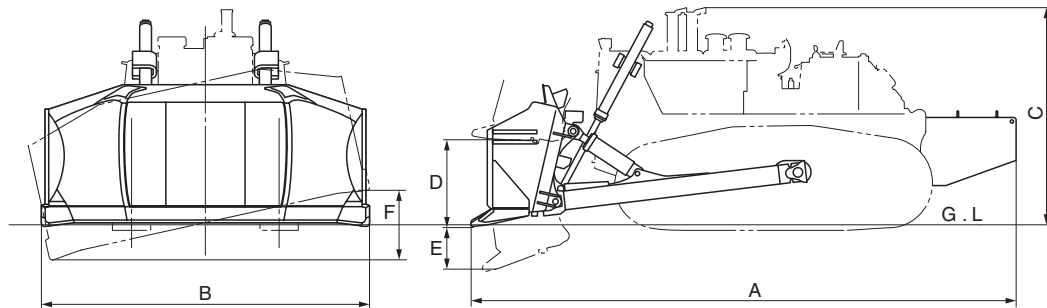
U-tiltdozer

Item		Model			
		D475A-5E0***	D575A-3		
OPERATING WEIGHT*		kg (lb)	102840 (226,730)	121835 (268,600)	
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	42.27 (55.28) 34.4 (45.0)	46.7 (61.1) 45 (58.9)	
DIMENSION*					
A	Overall length	mm (ft.in)	9205 (30'2")	9815 (21'8")	
B	Overall width	mm (ft.in)	6205 (20'4")	6800 (22'4")	
C	Overall height	mm (ft.in)	4546 (14'11")	4495 (14'9")	
	Ground pressure	kg/cm ² (PSI)	1.6 (22.75)	1.56 (22.18)	
DOZER EQUIPMENT					
	Weight (Includes hydraulic control unit)	kg (lb)	19250 (42,440)	23385 (51,550)	
	Length	mm (ft.in)	6205 (20'4")	6800 (22'4")	
	Height	mm (ft.in)	2610 (8'7")	2600 (8'6")	
D	Max. lift above ground	mm (ft.in)	1620 (5'4")	1850 (6'1")	
E	Max. drop below ground	mm (ft.in)	1010 (3'4")	900 (2'11")	
F	Max. tilting adjustment	mm (ft.in)	1350 (4'5")	1600 (5'3")	

* : Including dozer equipment in addition to bare tractor, excluding ROPS and cab

** : L: Blade length H: Blade height

*** : Dual tiltdozer



FVBH0333

Super Dozer

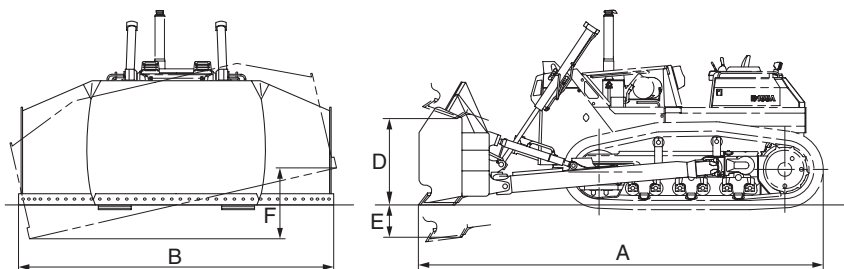
Item		Model			
		D475ASD-5E0	D575A-3 SD		
OPERATING WEIGHT*		kg (lb)	112260 (247,490)	152410 (336,000)	
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	45.0 (58.9)	69.0 (90.3) 60.0 (78.5)	
DIMENSION*					
A	Overall length	mm (ft.in)	10525 (34'6")	11720 (38'5")	
B	Overall width	mm (ft.in)	6465 (21'3")	7400 (24'3")	
C	Overall height	mm (ft.in)	4546 (14'11")	4495 (14'9")	
	Ground pressure	kg/cm ² (PSI)	1.53 (21.8)	1.50 (21.33)	
DOZER EQUIPMENT					
	Weight (Includes hydraulic control unit)	kg (lb)	21350 (47,070)	32430 (71,500)	
	Length	mm (ft.in)	6465 (21'3")	7400 (24'3")	
	Height	mm (ft.in)	2690 (8'10")	3250 (10'8")	
D	Max. lift above ground	mm (ft.in)	1960 (6'5")	1750 (5'9")	
E	Max. drop below ground	mm (ft.in)	860 (2'10")	805 (2'8")	
F	Max. tilting adjustment	mm (ft.in)	900 (2'11")	1000 (3'3")	
COUNTERWEIGHT		kg (lb)	6400 (14,110)	5400 (11,900)	

* : Including dozer equipment and counterweight in addition to bare tractor, excluding ROPS and cab

** : L: Blade length H: Blade height

Blade Specifications Coal Dozer

BULLDOZERS



FVBH0200

Item		Model	D155A-5	D155A-2A		
OPERATING WEIGHT*		kg (lb)	33330 (73,480)	34250 (75,510)		
BLADE CAPACITY LH2** SAE		m ³ (yd ³)	21.5 (28.1)	17.2 (22.5)		
DIMENSION*						
A	Overall length	mm (ft.in)	6900 (22'8")	7020 (23')		
B	Overall width	mm (ft.in)	5300 (17'5")	5300 (17'5")		
C	Overall height	mm (ft.in)	3395 (11'2")	3725 (12'3")		
	Ground pressure	kg/cm ² (PSI)	0.73 (10.5)***	0.97 (13.79)		
DOZER EQUIPMENT						
	Type		Coal dozer with power tilt	Coal dozer with power tilt		
	Weight (Includes hydraulic control unit)	kg (lb)	4930 (10,870)	6380 (14,070)		
	Length	mm (ft.in)	5300 (17'5")	5300 (17'5")		
	Height	mm (ft.in)	2125 (7'0")	1800 (5'11")		
D	Max. lift above ground	mm (ft.in)	1495 (4'11")	1620 (5'4")		
E	Max. drop below ground	mm (ft.in)	565 (1'10")	545 (1'9")		
F	Max. tilting adjustment	mm (ft.in)	1270 (4'2")	1270 (4'2")		

* : Including dozer equipment in addition to bare tractor

** : L: Blade length H: Blade height

*** : With 710 mm (28") shoe

The estimated production curves give maximum production before correction and are based on the following conditions.

1. 100% efficiency
2. 0.05 min time fixed (for gear shifting)
3. Machine cuts for 15 m (50 ft), then drifts blade load.
4. Gear

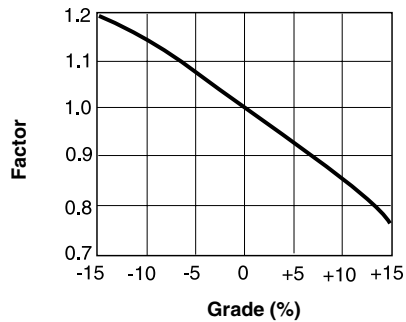
Machines with F3/R3	Machines with F4/R4
Cut : F1	Cut : F1
Carry : F2	Carry : F2, F3
Return : R2	Return : R3

$$\text{Actual Production} = (\text{Estimated Production}) \times (\text{Blade Factor}) \times (\text{Job Efficiency}) \times (\text{Grade Factor})$$

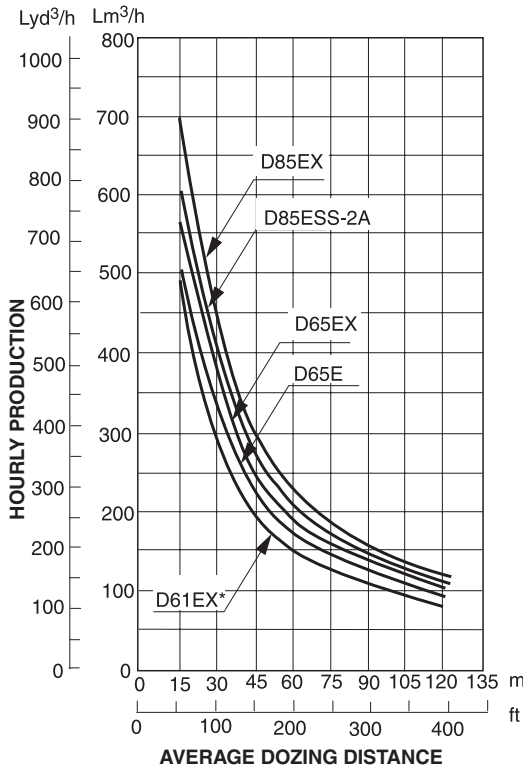
Correction Factor

BLADE FACTOR	
• Easy	1.1~0.9
• Average	0.9~0.7
• Rather difficult	0.7~0.6
• Difficult	0.6~0.4
JOB EFFICIENCY	
• Good	0.83 (50 min out of an hour machine use)
• Average	0.75 (45 min out of an hour machine use)
• Rather poor	0.67 (40 min out of an hour machine use)
• Poor	0.58 (35 min out of an hour machine use)
GRADE FACTOR	See right table

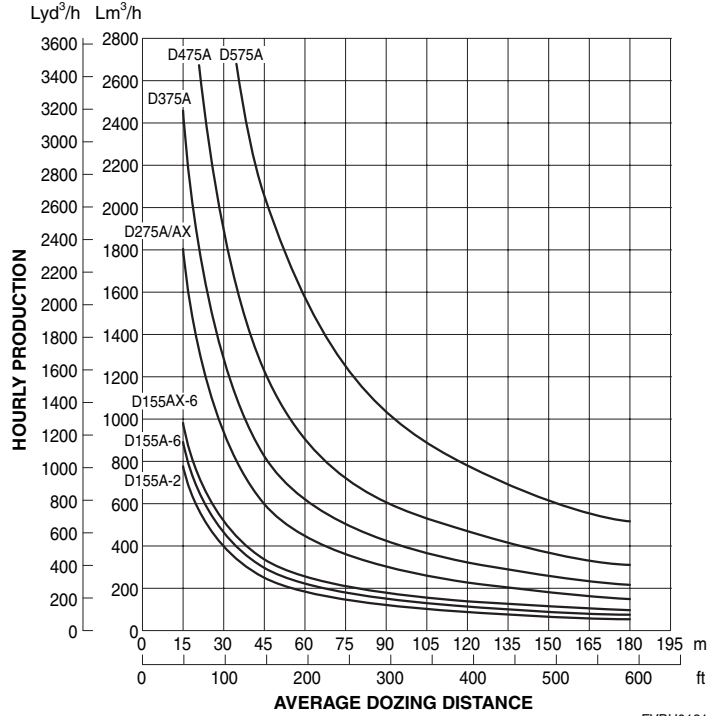
GRADE FACTOR



Estimated Dozing Production (Straight-tiltadozer, Power angle-tiltadozer*)

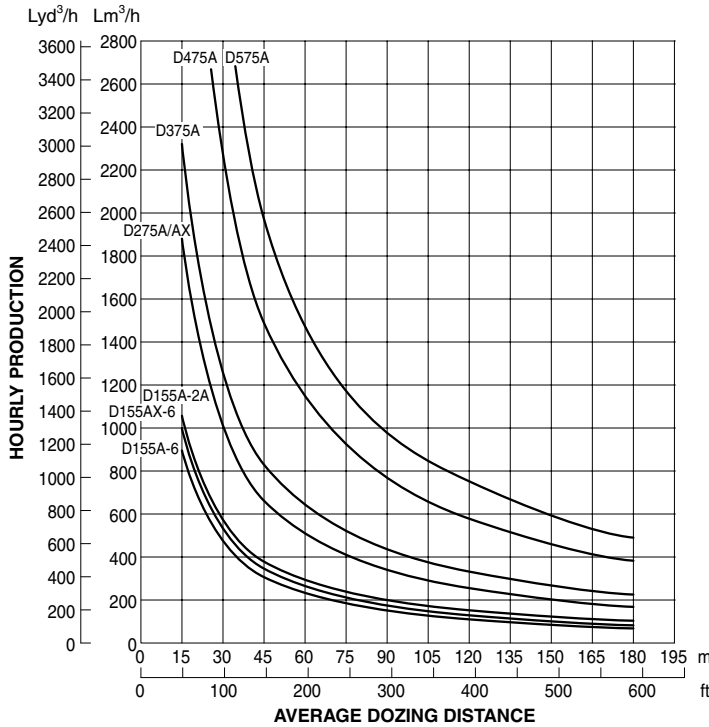


Estimated Dozing Production
(Semi-U-tiltdozer)



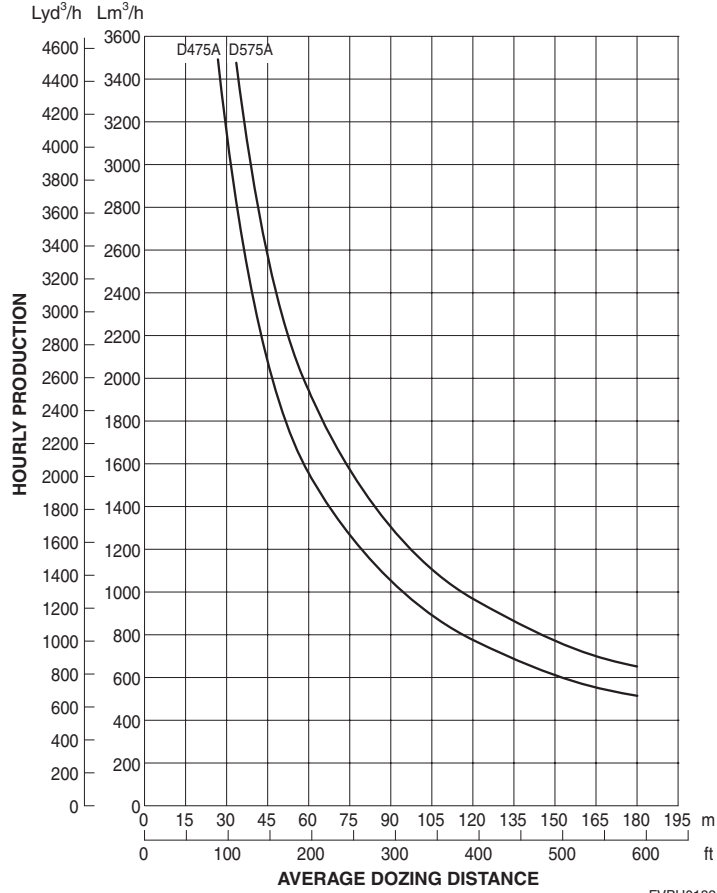
FVBH0181

Estimated Dozing Production
(U-tiltdozer)

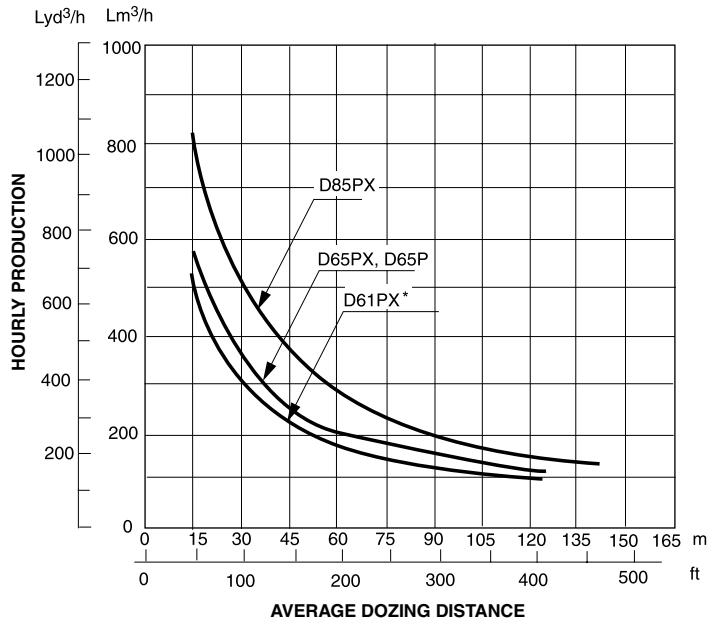


FVBH0182

**Estimated Dozing Production
(Super Dozer)**



**Estimated Dozing Production for Low Ground Pressure Bulldozers
(Straight-tiltdozer, Power Angle-tiltdozer*)**



SECTION **1C**

RIPPERS

CONTENTS

Features 1C-2

Specification:

- Multi-shank Ripper (Rigid type) 1C-3**
- Multi-shank Ripper (Variable type) 1C-4**
- Giant Ripper (Variable type) 1C-5**

Ripper Selection 1C-7

Ripper Point Selection 1C-8

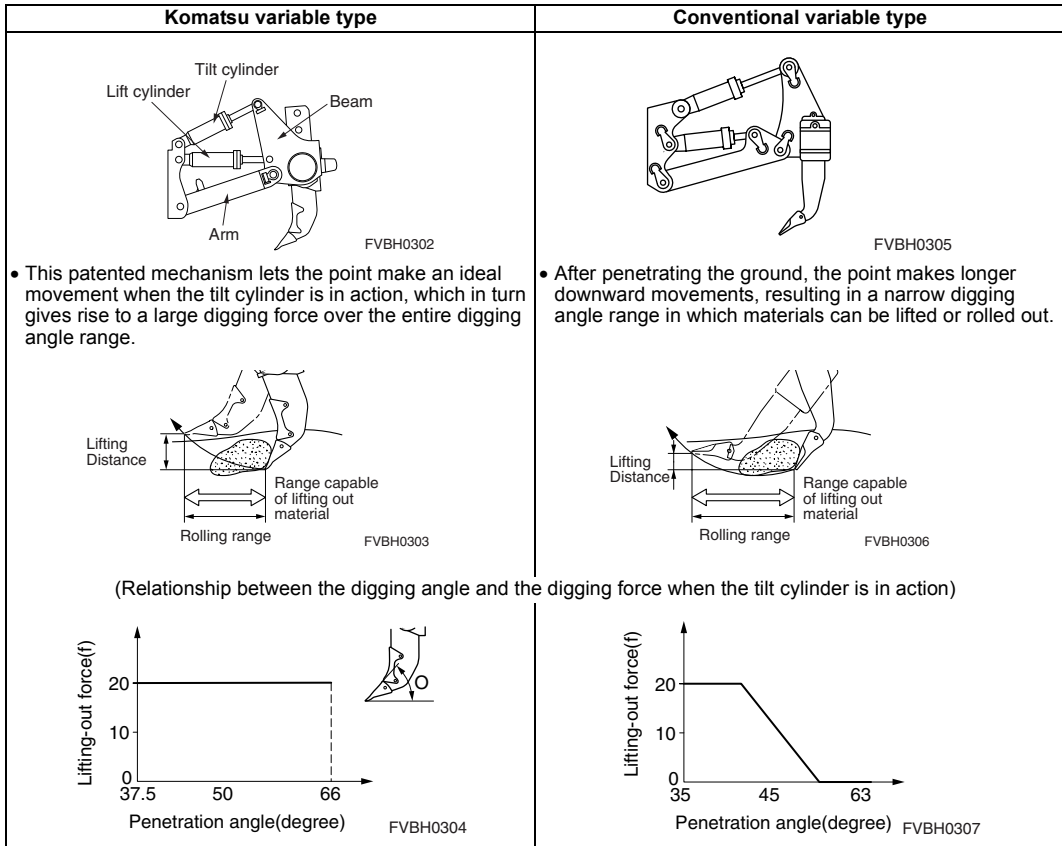
Production 1C-11

■ Outstanding productivity

1. Superior ripping performance is achieved through a large operating weight, high engine output and a conventional drive undercarriage.
2. Large maximum penetration depth provides high ripper production.
3. The unique linkage design enables the ripper point to draw an ideal locus during cylinder tilting for effective excavation of embedded rocks.

In the KOMATSU linkage, the lift cylinder is mounted on the beam, causing the point to make an ideal movement when the tilt cylinder is actuated.

Thus, the range of digging angles practically available is wider than the conventional type range, giving excellent digging force.



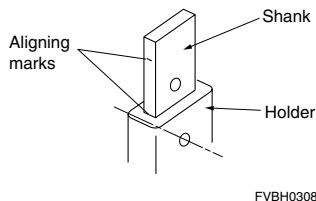
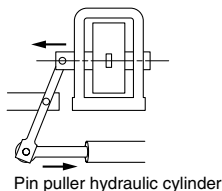
■ Minimum downtime

1. Large sectional area of the beam extends service life.
2. The forged ripper points are sharpened for excellent penetration and long service life.

■ Easy operation

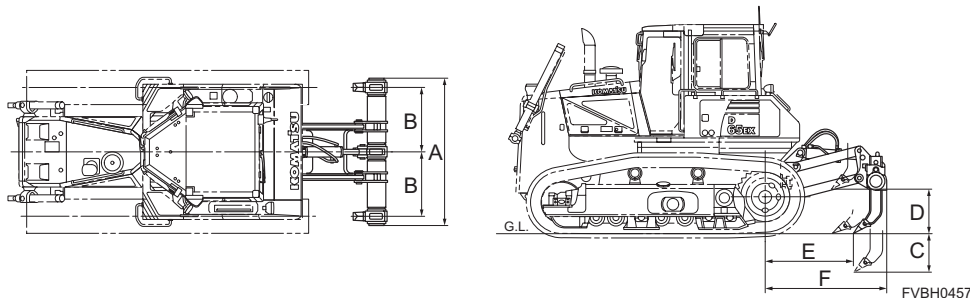
1. Optional pin puller facilitates change in digging depth.

The optional pin puller mechanism functions to insert or remove the pin from its hole. This is accomplished with a hydraulic cylinder and can be accomplished by an experienced operator, from within the cab. This feature thus provides a time savings benefit.



Specifications Multi-shank Ripper (Rigid type)

RIPPERS



Item		Model	D31EX-22	D37EX-22	D39EX-22	D61EX-15E0
A	RIPPER EQUIPMENT: Type		Tool bar	Tool bar	Tool bar	Parallelogram
	Weight**	kg (lb)	575 (1,270)	575 (1,270)	575 (1,270)	1645 (3,630)
B	Beam length	mm (ft.in)	1530 (5'0")	1530 (5'0")	1530 (5'0")	2170 (7'1")
	Shanks: No. of shanks		5	5	5	3
B	Tooth point		Replaceable	Replaceable	Replaceable	Replaceable
	Pitch (3 shank)	mm (ft.in)	700 (2'4")	700 (2'4")	700 (2'4")	950 (3'1")
	Pitch (2 shank)	mm (ft.in)				1900 (6'3")
B	Digging angle	degree	Fixed	Fixed	Fixed	55°, 45°
	Digging depth		Fixed	Fixed	Fixed	2-stage adjustable 3-stage adjustable
C	Max. digging depth	mm (ft.in)	315 (1'0")	315 (1'9")	245 (9.7")	665 (2'2")
D	Max. lift above ground	mm (ft.in)	435 (1'5")	435 (1'5")	505 (1'8")	565 (1'10")
E	Ripper point reach	mm (ft.in)	1313 (4'7")	1178 (3'10")	1079 (3'6")	1295 (4'3")
F	Tail length	mm (ft.in)	1484 (4'10")	1349 (4'5")	1276 (4'2")	
HYDRAULIC CONTROL UNIT*		kg (lb)	20 (40)	20 (40)	20 (40)	35 (80)

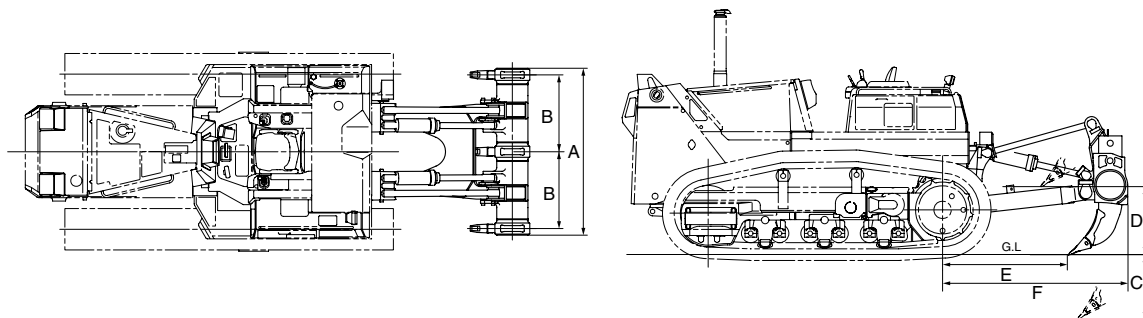
Item		Model	D65E-12	D65EX-16 D65WX-16	D85ESS-2A	D85EX-15E0 D85EX-15R
A	RIPPER EQUIPMENT: Type		Parallelogram	Parallelogram	Parallelogram	Parallelogram
	Weight**	kg (lb)	1680 (3,700)	1770 (3,900)	1680 (3,700)	2500 (5,520)
B	Beam length	mm (ft.in)	2170 (7'1")	2170 (7'1")	2170 (7'1")	2227 (7'4")
	Shanks: No. of shanks		3	3	3	3
B	Tooth point		Replaceable	Replaceable	Replaceable	Replaceable
	Pitch (3 shank)	mm (ft.in)	950 (3'1")	950 (3'1")	950 (3'1")	1000 (3'3")
	Pitch (2 shank)	mm (ft.in)	1900 (6'3")	1900 (6'3")	1900 (6'3")	2000 (6'7")
B	Digging angle	degree	55°, 45°	55°, 45°		54.5°
	Digging depth		2-stage adjustable 3-stage adjustable	2-stage adjustable 2-stage adjustable	2-stage adjustable 3-stage adjustable	2-stage adjustable
C	Max. digging depth	mm (ft.in)	595 (1'11")	590 (1'11")	595 (1'11")	655 (2'2")
D	Max. lift above ground	mm (ft.in)	640 (2'1")	640 (2'1")	640 (2'1")	565 (1'10")
E	Ripper point reach	mm (ft.in)	1300 (4'3")	1300 (4'3")	1295 (4'3")	1480 (4'10")
F	Tail length	mm (ft.in)	1795 (5'11")	1823 (6'0")	1790 (5'10")	2075 (6'10")
HYDRAULIC CONTROL UNIT*		kg (lb)	70 (150)	20 (44)	70 (150)	

* : Including additional oil weight, except D85A

** : Including the hydraulic control unit

Specifications Multi-shank Ripper (Variable type)

RIPPERS



Item		Model	D155A-5	D155AX-6 D155A-6	D275A-5 D275A-5E0 D275A-5R	D375A-5
A	RIPPER EQUIPMENT: Type		Variable digging angle type	Variable digging angle type	Variable digging angle type	Variable digging angle type
	Weight**	kg (lb)	3710 (8,180)	3760 (8,290)	4462 (9,840)	6720 (14,810)
B	Beam length	mm (ft.in)	2260 (7'5")	2320 (7' 7")	2495 (8'2")	2854 (9'4")
	Shanks: No. of shanks		3	3	3	3
	Tooth point		Replaceable 1040 (3'5")	Replaceable 1070 (3'6")	Replaceable 1130 (3'8")	Replaceable 1320 (4'4")
	Pitch (3 shank)	mm (ft.in)	2080 (6'10")	2140 (7'0")	2260 (7'5")	2640 (8'8")
C	Pitch (2 shank)	mm (ft.in)	2080 (6'10")	2140 (7'0")	2260 (7'5")	2640 (8'8")
	Digging angle	degree	Std:49° Stepless adjustable	Std:49° Stepless adjustable	Std:51.7° Stepless adjustable	Std:45° Stepless adjustable
D	Digging depth		2-stage adjustable	2-stage adjustable	2-stage adjustable	2-stage adjustable
	Max. digging depth	mm (ft.in)	870 (2'10")	900 (2' 11")	900 (2'11")	1075 (3'6")
E	Max. lift above ground	mm (ft.in)	925 (3')	950 (3' 1")	955 (3'2")	1050 (3'5")
F	Ripper point reach	mm (ft.in)	1700 (5'7")	2100 (6'11")	1905 (6'3")	2365 (7'9")
	Tail length	mm (ft.in)	2510 (8'3")	2745 (9'0")	2675 (8'9")	3160 (10'4")
	HYDRAULIC CONTROL UNIT*	kg (lb)	90 (200)		120 (260)	220 (490)

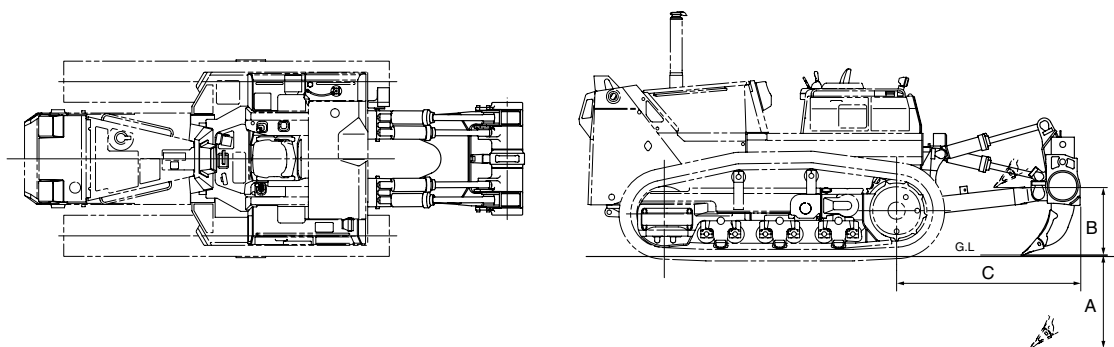
Item		Model	D375A-5R	D375A-6	D375A-6R	D475A-5E0
A	RIPPER EQUIPMENT: Type		Variable digging angle type	Variable digging angle type	Variable digging angle type	Variable digging angle type
	Weight**	kg (lb)	6720 (14,810)	6800 (14,990)	6800 (14,810)	9720 (21,430)
B	Beam length	mm (ft.in)	2854 (9'4")	2910 (9'7")	2910 (9'7")	3085 (10' 1")
	Shanks: No. of shanks		3	3	3	3
	Tooth point		Replaceable 1320 (4'4")	Replaceable 1320 (4'4")	Replaceable 1320 (4'4")	Replaceable 1385 (4'7")
	Pitch (3 shank)	mm (ft.in)	2640 (8'8")	2640 (8'8")	2640 (8'8")	2770 (9'1")
C	Pitch (2 shank)	mm (ft.in)	2640 (8'8")	2640 (8'8")	2640 (8'8")	2770 (9'1")
	Digging angle	degree	Std:45° Stepless adjustable	Std:45° Stepless adjustable	Std:45° Stepless adjustable	Std:45° Stepless adjustable
D	Digging depth		2-stage adjustable	2-stage adjustable	2-stage adjustable	2-stage adjustable
	Max. digging depth	mm (ft.in)	1170 (3'10")	1140 (3'9")	1190 (3'11")	1124 (3' 8")
E	Max. lift above ground	mm (ft.in)	1090 (3'7")	1135 (3'9")	1082 (3'7")	1196 (3' 11")
F	Ripper point reach	mm (ft.in)	2365 (7'9")	2345 (7'9")	2345 (7'9")	2575 (8'5")
	Tail length	mm (ft.in)	3160 (10'4")	3170 (10'5")	3165 (10'5")	3940 (11'5")
	HYDRAULIC CONTROL UNIT*	kg (lb)	220 (490)			120 (260)

* : Including additional oil weight

** : Including the hydraulic control unit

Specifications Giant Ripper (Variable type)

RIPPERS



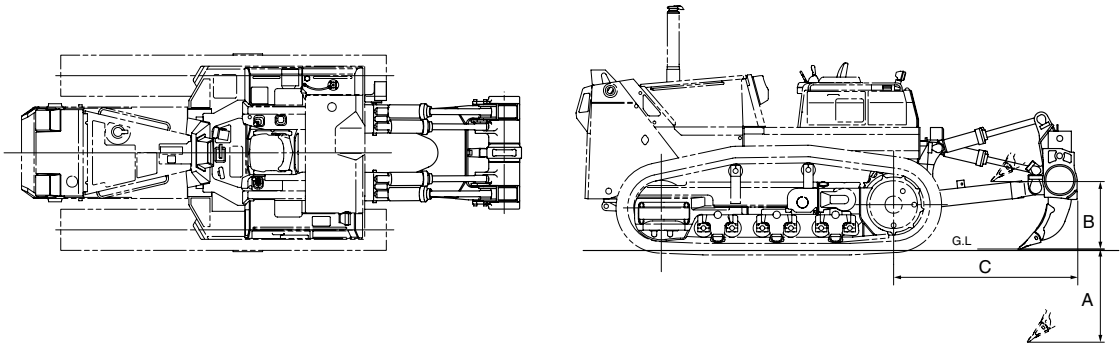
Item		Model	D155A-5	D155AX-6	D155AX-6***	D155A-6
	RIPPER EQUIPMENT: Type		Variable digging angle type	Variable digging angle type	Variable digging angle type	Variable digging angle type
	Weight**	kg (lb)	2760 (6,080)	2440 (5380)	3380 (7450)	3380 (7450)
	Shanks: No. of shanks Tooth point Digging angle	degree	1 Reversible Std:49° Stepless adjustable	1 Reversible Std:49° Stepless adjustable	1 Reversible Std:49° Stepless adjustable	1 Reversible Std:45° Stepless adjustable
	Digging depth		3-stage adjustable	3-stage adjustable	3-stage adjustable	3-stage adjustable
A	Max. digging depth	mm (ft.in)	1220 (4')	1240 (4'1")	1370 (4'6")	1370 (4'6")
B	Max. lift above ground	mm (ft.in)	925 (3')	950 (3'1")	945 (3'1")	900 (2'11")
C	Tail length	mm (ft.in)	2510 (8'3")	2745 (9'0")	3100 (10'2")	3100 (10'2")
	HYDRAULIC CONTROL UNIT*	kg (lb)	90 (200)			

Item		Model	D275A-5 D275A-5R	D275AX-5E0	D375A-5	D375A-5R
	RIPPER EQUIPMENT: Type		Variable digging angle type	Variable digging angle type	Variable digging angle type	Variable digging angle type
	Weight**	kg (lb)	4600 (10,140)	3600 (7,940)	5470 (12,060)	5470 (12,060)
	Shanks: No. of shanks Tooth point Digging angle	degree	1 Replaceable Stepless adjustable	1 Replaceable Std:42.7° Stepless adjustable	1 Replaceable Std:45° Stepless adjustable	1 Replaceable Std:45° Stepless adjustable
	Digging depth		3-stage adjustable	3-stage adjustable	3-stage adjustable	3-stage adjustable
A	Max. digging depth	mm (ft.in)	1420 (4'8")	1300 (4'3")	1435 (4'8")	1420 (4'8")
B	Max. lift above ground	mm (ft.in)	1195 (3'11")	870 (2'10")	1060 (3'6")	1420 (4'8")
C	Tail length	mm (ft.in)	3060 (10'0")	3030 (9'11")	3450 (11'4")	3450 (11'4")
	HYDRAULIC CONTROL UNIT*	kg (lb)	120 (260)	120 (260)	60 (130)	

* : Including additional oil weight
 ** : Including the hydraulic control unit
 *** : With push plate

Specifications Giant Ripper (Variable type)

RIPPERS



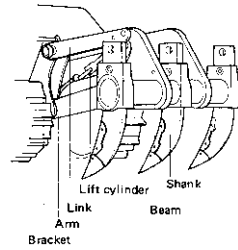
Item		Model	D375A-6	D375A-6R	D475A-5E0	D575A-3
	RIPPER EQUIPMENT: Type		Variable digging angle type	Variable digging angle type	Variable digging angle type	Variable digging angle type
	Weight**	kg (lb)	6200 (13,670)	6200 (13,670)	7360 (16,230)	10530 (23,210)
	Shanks: No. of shanks Tooth point Digging angle	degree	1 Replaceable Std:45° Stepless adjustable	1 Replaceable Std:45° Stepless adjustable	1 Replaceable Std:45° Stepless adjustable	1 Replaceable Std:45° Stepless adjustable
	Digging depth		2-stage adjustable	2-stage adjustable	4-stage adjustable	5-stage adjustable
A	Max. digging depth	mm (ft.in)	1485 (4'10")	1538 (5'1")	1744 (5' 9")	2050 (6'9")
B	Max. lift above ground	mm (ft.in)	1100 (3'7")	1050 (3'5")	1196 (3' 11")	1290 (4'3")
C	Tail length	mm (ft.in)	3460 (11' 4")	3460 (11' 4")	3720 (12'2")	3755 (12'4")
	HYDRAULIC CONTROL UNIT*	kg (lb)				150 (330)

* : Including additional oil weight

** : Including the hydraulic control unit

Multi-shank rippers (Rigid type)

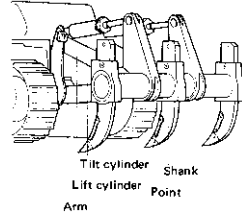
Highly efficient ripping of soft rock is possible with three shanks. The parallelogram ripper linkage maintains the shanks at the optimum digging angle during operation, regardless of the shank's penetrating depth.



Multi-shank rippers (Variable type)

The ripper point angle can be varied hydraulically to suit the specific ground conditions.

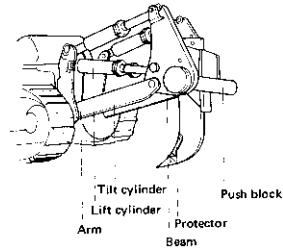
The ideal movement of ripper points ensures powerful digging force throughout the entire digging angle range.



Giant rippers (Variable type)

Specially made to handle hard rock with reinforced beam and a shank.

The tilt angle of the ripper point is adjustable for better penetration and fragmentation.



1. COMPARISON BETWEEN THE MULTI-SHANK AND GIANT (SINGLE SHANK) RIPPERS

Multi-shank Ripper		Giant Ripper	
M-1	Three tips provide high efficiency ripping of soft rock.	G-1	Sturdy construction. Suitable for harder rocks.
M-2	Foot of cliffs or slopes can be ripped by using the left or right tip.	G-2	Push plate allows tandem ripping.
<p>L: Giant l: Multi-Shank</p> <p>FVBH0310</p>		<p>Push plate</p> <p>FVBH0311</p>	
M-3	Adaptable to hard or soft rock by increasing or decreasing the number of shanks.	G-3	Deep penetration and large distance from shank to rear of bulldozer make it possible to handle large rocks.
		G-4	Pin puller simplifies changing shank length.

2. COMPARISON BETWEEN THE RIGID AND VARIABLE TYPE RIPPERS

Rigid type Ripper		Variable type Ripper	
F-1	Simple construction and low price.	V-1	Digging angle can be adjusted to obtain optimum conditions for type of rock and slope of ground.
F-2	Constant digging angle.	V-2	Digs out boulders easily.
F-3	Simple hydraulic circuit means fewer oil leaks.	V-3	Tilting function makes it possible to cut roots.

Various types of ripper points are available, and the general standards for selection according to the type of use are given below.

1. Types of ripper points

Ripper points are categorized according to the following three items.

Material	There are two main types: Heat-resistant type and high-toughness type. These are distinguished with a red mark and yellow mark, respectively.
Point length	There are two types: Long and short
Shape	There are two types: A symmetric type that can be turned and the non-symmetric type that cannot be turned.

When combining of these categories, 4~7 types of points are available for each model.

2. Features of each type of point

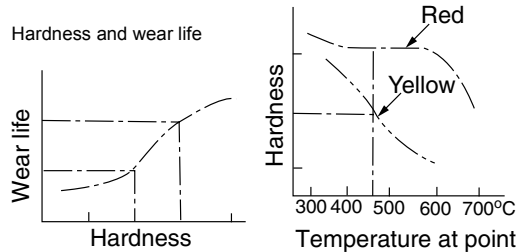
Red	Has high resistance to wear from generation of heat at the point tip, but compared with the yellow point, it lacks toughness.
Yellow	Compared with the red point, this has excellent toughness, but it has inferior wear life when heat is generated at the point.

If the point does not dig into the rock, but slips on the rock surface, the friction heat between the point and rock causes an extreme rise in temperature of the point, thus reducing point hardness.

There is a close relationship between hardness and wear: The higher the hardness, the less the wear.

Also there is a close relationship between increased temperature of the point and excellent wear of the point (abnormal wear).

The red point has superior heat resistance, it retains its hardness better than the yellow point as the temperature increases. Thus, the red point is advantageous for hard rock applications, which is where extreme point temperatures are typically seen. The trade off is that due to the higher hardness of the point, it is more brittle, and thus more susceptible.



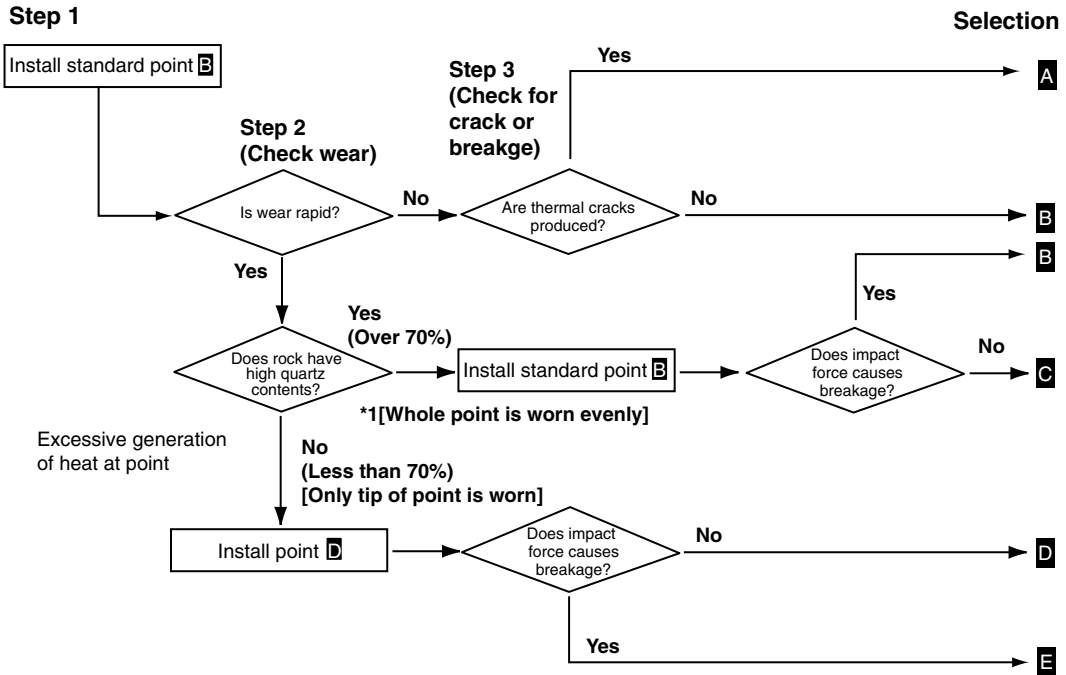
Long	Has a wear life 1.5 ~ 2.0 times greater than the short point, but its strength is inferior to the short point because of its extra length.
Short	Compared with the long point, it has superior strength, but has inferior wear life compare to the long point.
Non-symmetric type	<p>This has a self-sharpening shape, so it always retains its cutting edge, and provides a long life on jobsites where there is soft rock and penetration ability is not required. The rib provided only on the top surface wears gradually under the flow of the soil, and there is no change in the penetration surface pressure.</p> <p> $P = \frac{R1}{A \times B}$ $P = \text{Penetration surface pressure}$ $R1 = \text{Input}$ </p>
Symmetric type (can be turned)	<p>On hard rock where penetration ability is needed, it is possible to restore the penetration ability by turning the point.</p>

The table below gives a summary of the features of each type of point.

Length	Color	Shape	Seismic velocity	Wear tolerance	Strength, resistance to impact	Abnormal wear	Penetration	Cost	
Short	Yellow	Symmetric type	No particular limit	○	⊙	○	⊙	4	
		Non symmetric type					○		
	Red	Symmetric type			○	⊙	⊙		2
		Non symmetric type			○	○			
Long	Yellow	Non symmetric type	(As a guideline) Max. 1500m/sec		○	○	○	3	
	Red	Non symmetric type			△	⊙	○	1	

Key ⊙: Good, ○: Average, △: Poor
 Cost: 1 (Most expensive), 4 (Least expensive)

Procedure for selection



Selection	Typical rock			Suitable point	Shape	Availability					
	Hardness	Type of rock	Features			D85EX-1SR	D85EX-1SE0	D155AX-6	D275AX-5R	D275AX-5E0	D375A-6R
A	Soft ↕ Hard	Shale, lime stone	<ul style="list-style-type: none"> Little quartz, little wear Deposited in layers, so ripping is easy 	Point for limestone <ul style="list-style-type: none"> Symmetric shape Yellow Short 							
B	Soft ↕ Hard	All types of general rock	—	Standard point <ul style="list-style-type: none"> Symmetric shape Yellow Short 							
C	Soft ↕ Medium	Sandstone	<ul style="list-style-type: none"> Proportion of quartz is extremely high (70%-95%), point wears rapidly 	Non-symmetric Shape <ul style="list-style-type: none"> Yellow Long 							
D	Soft	Basalt andesite, granite, chert	<ul style="list-style-type: none"> Proportion of quartz is not so high (40%-70%) Rock is not composed of layers or seams, so heat is generated at point, point wears rapidly, ripping is difficult 	Non-Symmetric Shape <ul style="list-style-type: none"> Red Long 							
E	Hard			Symmetric Shape <ul style="list-style-type: none"> Red Short 							

* 1: When the point is worn uniformly, not only the tip of the point is worn, but also the thickness of the housing metal (place where shank enters) is also worn. On job sites where wear is rapid, it does not necessarily mean that the red point is suitable. There are many reasons why the point wears. Of these, rock hardness and the silica content are major causes. Therefore, even on soft rock, if there is a high silica content, there will be rapid wear of the point even though the temperature of the point does not rise greatly. As explained under the features of the red point, in such job sites, the advantages of the red point cannot be made use of. (On these job sites, there is no great difference in the wear life between the red and yellow points.)

Not all material can be ripped. Whether or not a rock can be ripped can be determined by any of the following methods:

- 1) By the type of rock
- 2) By an indoor rock test
- 3) By a field rock test
- 4) By a digging test with the ripper in the field.

Method 4) is most effective. If the user has no experience in ripping, an actual ripping operation should be demonstrated for the user by an operator experienced in ripping. Methods 1) and 3) are described below :

Determination of rippability by type of rock

Rocks are classified into sedimentary (aqueous), igneous, and metamorphic. The following general rules apply:

- 1) Sedimentary rocks such as sandstone, limestone, and shale can be ripped easily. Sedimentary rocks are usually found stratified in layers which vary in thickness. The thinner the layers, the easier it is to rip them.
- 2) Igneous rocks such as granite, basalt, and andesite are not found in distinct layers or cleavage planes, and this makes them difficult to rip.
- 3) Metamorphic rocks such as gneiss, schist, and quartzite vary in rippability according to the degree of stratification or cleavage.

Rippability depends not only on the type of rock, but also on the degree of weathering or fracturing.

Characteristics which determine the ease of rippability are summarized below.

• **Favorable rock for ripping**

- Stratified
- Weathered
- Brittle, crystalline nature
- High degree of laminations or thin layers.
- Fractured
- Faults or planes of weakness.

• **Unfavorable rock for ripping**

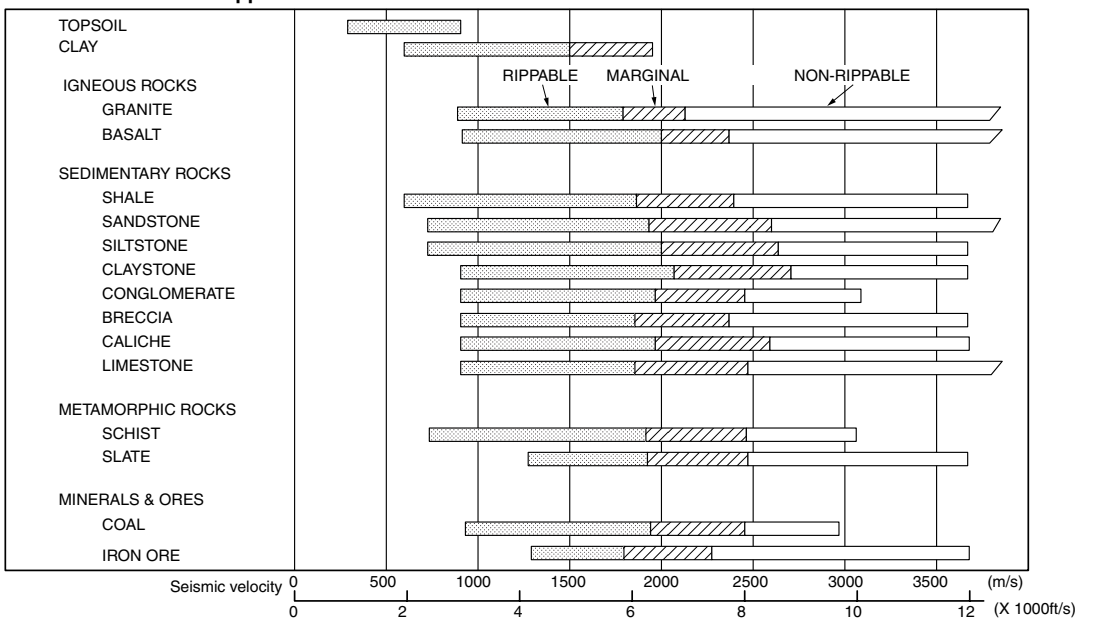
- Fine-grained with a solid cementing agent.
- Moisture, which tends to solidify the rock surface layer.
- Lacking planes of weakness
- Massive and homogeneous
- Non-crystalline and not brittle

Determination of rippability by in-the-field rock test.

Seismic wave velocity tests are used to estimate the rippability of rock. In this test, an artificial earthquake is introduced and the travel speeds of seismic waves through different kinds of sub-surface materials are measured. Thus the degree of consolidation, thickness of sub-surface layers, hardness, degree of fracturing, stratification, and weathering can be determined .

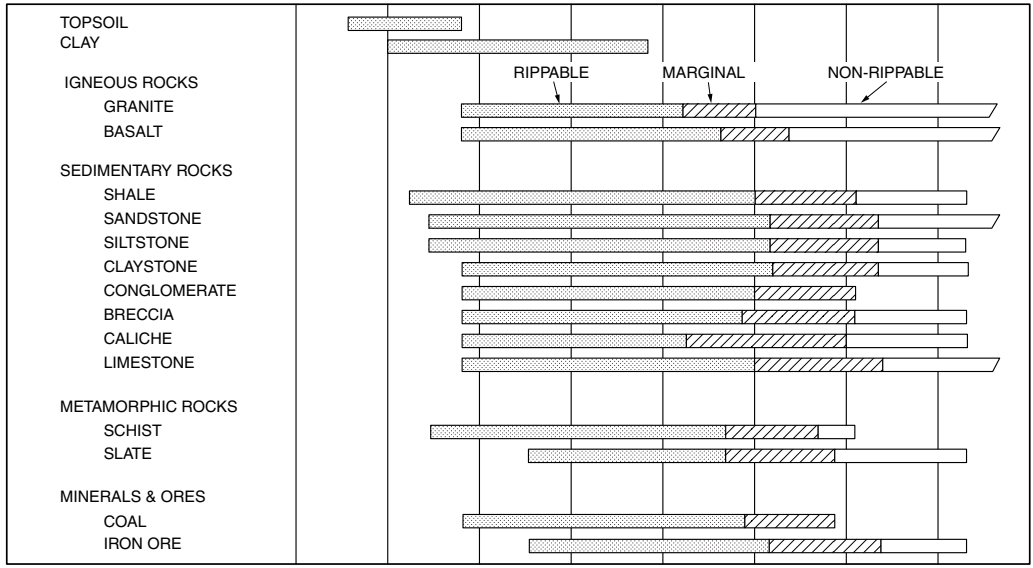
The chart below compares ripper performance to seismic velocities. It should be used **ONLY A ROUGH GUIDE**, because ripper performance is subject to many other conditions.

D155A/D155AX Giant Ripper



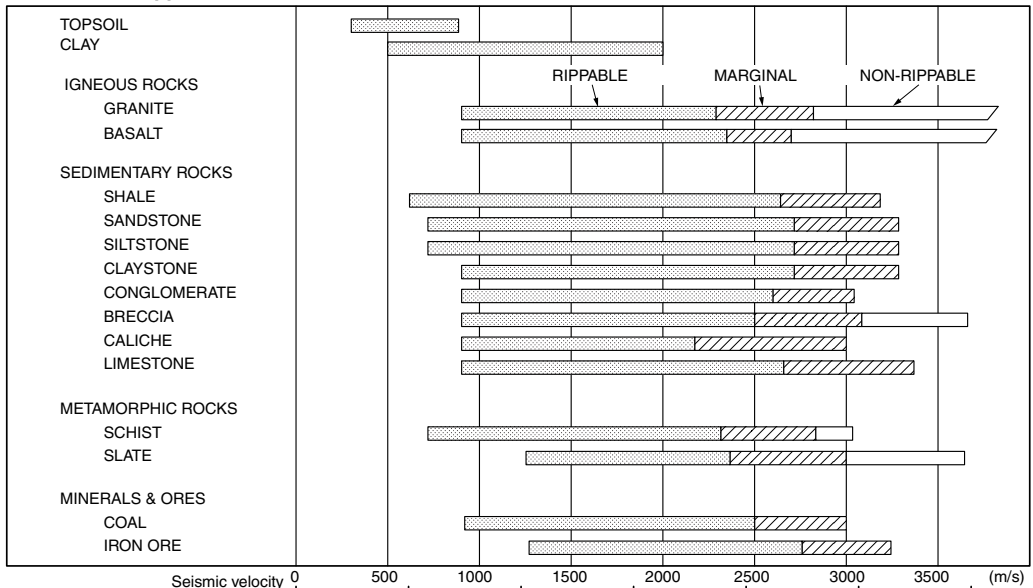
The chart below compares ripper performance to seismic velocities. It should be used ONLY A ROUGH GUIDE, because ripper performance is subject to many other conditions.

D275A / D275AX Giant Ripper



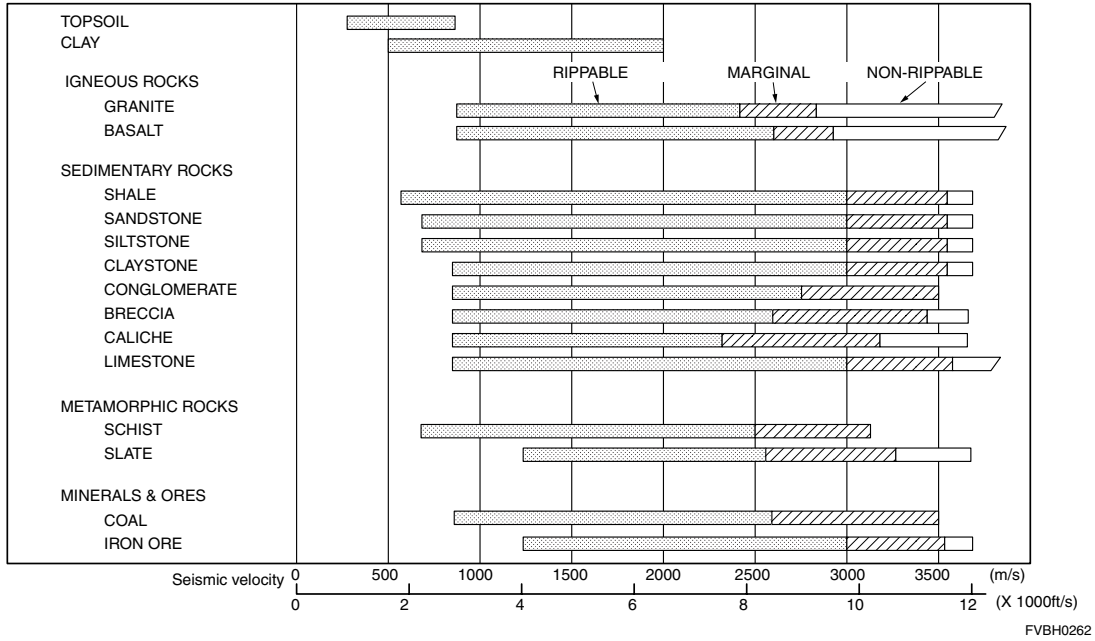
FVBH0260

D375A Giant Ripper

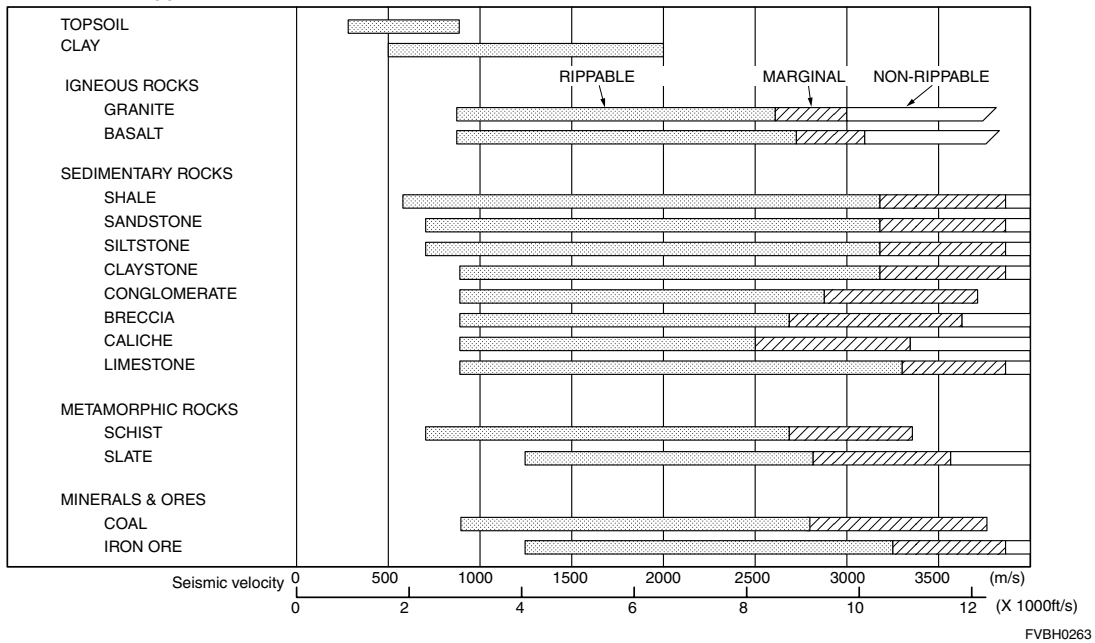


FVBH0261

D475A Giant Ripper



D575A Giant Ripper



Since ripper performance varies considerably with the characteristics of the rocks, the work methods, and operator's skill, it is impossible to estimate performance accurately. However, based on accumulated data, the relationship between seismic wave velocity and production can be ESTIMATED ROUGHLY as shown in the graph. This graph applies only to ripping operations. Production is given in bank.

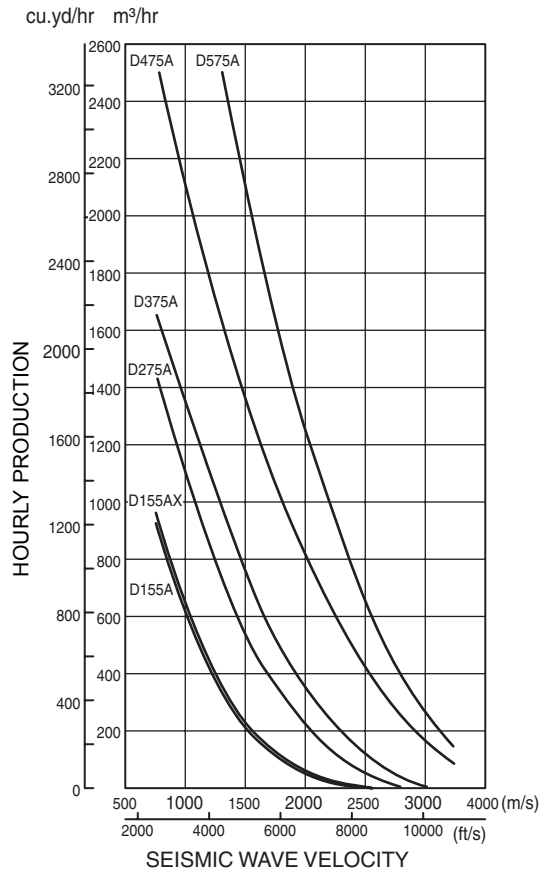
This graph is based on numerous field studies.

Actual production should be estimated as follows.

$$\text{Actual production} = (\text{Standard production}) \times (\text{Job efficiency})$$

Job Efficiency (E)

Operation conditions	E
Good (45 min out of an hour use)	0.75
Average (35 min out of an hour use)	0.58
Rather poor (30 min out of an hour use)	0.50
Poor (25 min out of an hour use)	0.40



FVBH0184

Conditions

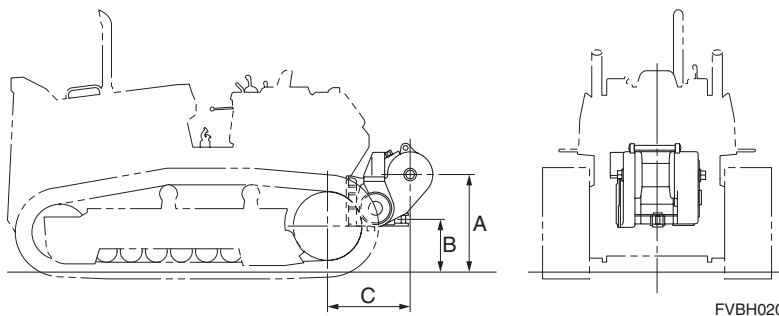
- 1) Ripping production only
- 2) Bulldozers with single shank rippers
- 3) 100% job efficiency

SECTION **1D**

TOWING WINCHES

CONTENTS

Specifications 1D-2



FVBH0201

Item		Model	D68ESS-12	D85ESS-2		
Type			Wet type	Wet type		
Weight	kg (lb)		1570 (3,455)	1290 (2,840)		
DIMENSION						
A: Ground to drum center	mm (ft.in)		1145 (3'9")	1201 (3'11")		
B: Ground to hitch center	mm (ft.in)		610 (2')	650 (2'2")		
C: Sprocket center to drum center	mm (ft.in)		945 (3'1")	1066 (3'6")		
Drum dimension:						
Length	mm (ft.in)		975 (3'2")	1005 (3'4")		
Width	mm (ft.in)		996 (3'3")	1070 (3'6")		
Height	mm (ft.in)		980 (3'3")	980 (3'3")		
Drum diameter	mm (ft.in)		254 (10")	254 (10")		
Flange diameter	mm (ft.in)		510 (1'8")	510 (1'8")		
Drum width	mm (ft.in)		320 (1'1")	320(1'1")		
Cable:						
Cable dia. × length	mm × m (in × ft)		28.6 × 50 (1.12 × 165)	26 × 73 (1.02 × 240)		
Performance:						
Line speed:						
Bare drum	m/min. (FPM)		F28 (92) R63 (207)	F28 (92) R63 (207)		
Full drum	m/min. (FPM)		F48 (157) R110 (361)	F48 (157) R110 (361)		
Line pull:						
Bare drum	kg (lb)		26910 (59,322)	31400 (69,220)		
Full drum	kg (lb)		15570 (34,323)	18200 (40,120)		

SECTION **1E**

PIPELAYERS

CONTENTS

Features	1E-2
Specifications	1E-3
Lifting Capacity	1E-4

Faster, effortless winch control

- Komatsu pipelayers require only three levers for winch control, one each for the transmission, hook and boom.
- Choice of hook speeds for raising and lowering facilitates stringing, cradling and lowering in.

Big lifting capacity

- Komatsu pipelayers have the largest lifting capacity in their respective classes.
- Adjustment of the counterweights is made hydraulically and conveniently by a lever beside the operator's seat for machine balance.

Safe operation

- Komatsu pipelayers offer safety features to keep operators working confidently.
- All machines are standardly equipped with an automatic boom maximum stopper device.
- There is a free-fall setting on the hook control lever for use during an emergency.
- Komatsu pipelayers have a closed-type winch brake that prevents slips during operation in wet weather.
- Because the hook wires are located away from the operator, danger in the event of a wire cut is minimized.

Proven, stable undercarriage

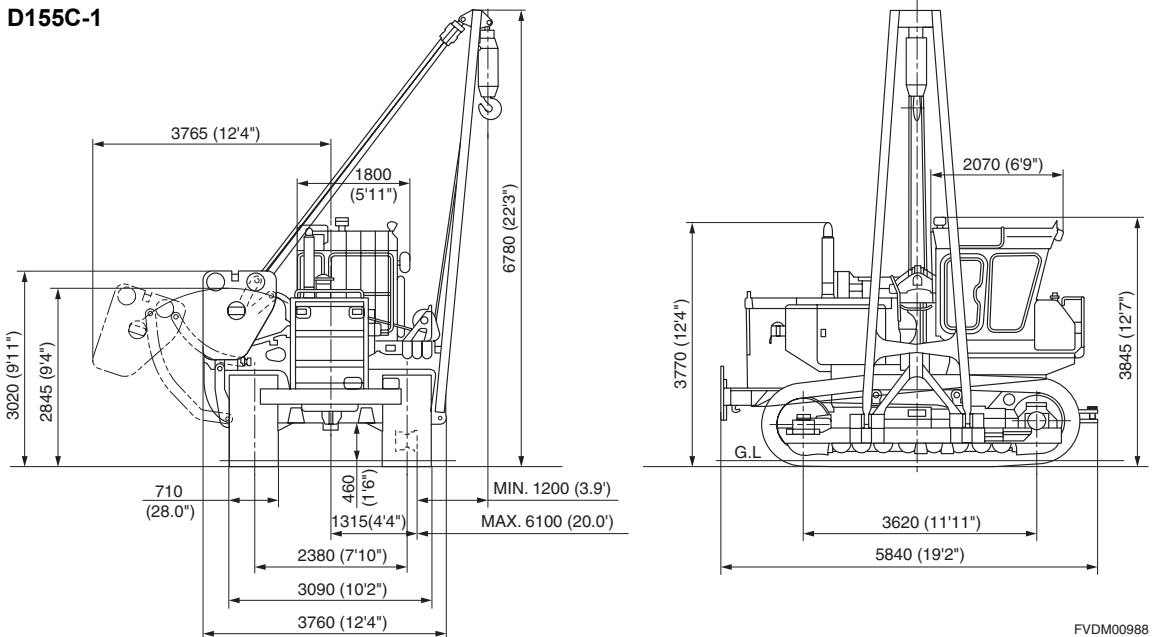
- Main components of these three machines are basically the same as those of the Komatsu D355A, D155A and D85A bulldozers. They have a proven record for reliable and durable performance, plus easy maintenance.
- A wide track gauge, large length of track on ground and counterweights give these pipelayers more stability to operate on steep slopes .

Item	Model	D85C-21	D155C-1	D355C-3	
OPERATING WEIGHT	kg (lb)	30050 (66,250)	45800 (100,970)	57850 (127,540)	
MAX. LIFTING CAPACITY	kg (lb/kN)	41000 (90,390/402)	70000 (154,320/686)	92000 (202,820/902)	
HORSEPOWER	kW (HP)/RPM	168 (225)/2000	239 (320) /2000	269 (360)/2000	
DIMENSIONS:					
Overall length	mm (ft.in)	4805 (15'9")	5840 (19'2")	6030 (19'9")	
Overall width*	mm (ft.in)	3490 (11'5")	3760 (12'4")	4405 (14'5")	
Overall height	mm (ft.in)	3640 (11'11")	3845 (12'7")	3925 (12'11")	
Track gauge	mm (ft.in)	2250 (7'5")	2380 (7'10")	2550 (8'4")	
Length of track on ground	mm (ft.in)	2730 (8'11")	3620 (11'11")	3750 (12'4")	
Ground contact area	cm ² (sq.in)	33300 (5,160)	51400 (7,967)	64500 (10,000)	
Ground pressure	kg/cm ² (PSI/kPa)	0.90 (12.8/88.3)	0.89 (12.66/87.3)	0.90 (12.8/88.3)	
PIPELAYING EQUIPMENT:					
Hook speeds:(bare drum)	m/min (FPM)				
Raise	1st	9.6 (31.5)	6.0 (19.7)	5.5 (18.0)	
	2nd	21.7 (71.2)	13.8 (45.3)	12.7 (41.7)	
Lower	1st	9.3 (30.5)	4.8 (15.7)	4.5 (14.8)	
	2nd	21.1 (69.2)	11.1 (36.4)	10.2 (33.5)	
Boom: Length	mm (ft.in)	5500 (18'1")	6200 (20'4")	7300 (23'11")	
Winch: Type		H.C**	H.C**	H.C**	
ENGINE:					
Model		KOMATSU S6D125	KOMATSU SA6D140	KOMATSU SA6D140	
No.of cylinders- bore × stroke	mm (in)	6-125 × 150 (4.92 × 5.91)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	
Piston displacement	ltr (cu.in)	11.04 (674)	15.24 (930)	15.24 (930)	
PERFORMANCE:					
Travel speeds	km/h (MPH)				
Forward/Reverse	1st	3.5 (2.2)/4.7 (2.9)	3.6 (2.2)/4.4 (2.7)	3.3 (2.1)/3.9 (2.4)	
	2nd	6.5 (4.0)/8.3 (5.2)	6.6 (4.1)/7.8 (4.8)	5.9 (3.7)/7.0 (4.3)	
	3rd	10.7(6.6)/13.3(8.3)	11.2(7.0)/12.4(7.7)	9.8(6.1)/11.0(6.8)	
UNDERCARRIAGE:					
No. of rollers	(Carrier/track)	2/6	2/8	2/8	
Shoe width					
Standard	mm (in)	610 (24.0)	710 (28.0")	860 (34.0)	
Optional	mm (in)	660 (26.0)	760 (30.0")	960 (38.0)	
		710 (28.0)		1010 (40.0)	

* : Counterweight retracted, excluding boom

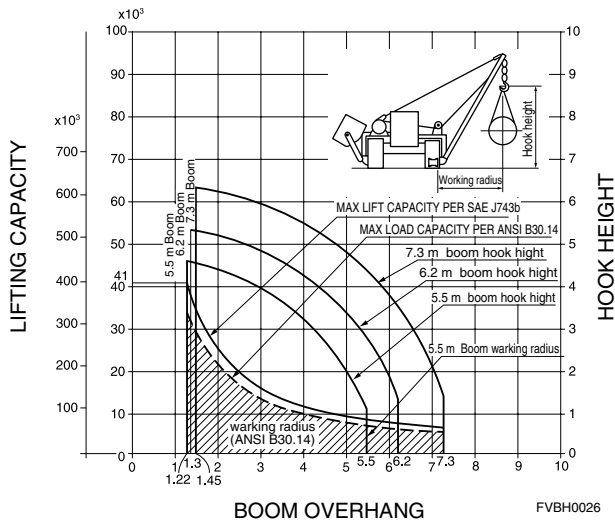
** : Hydraulically-controlled double-drum, reversible

D155C-1

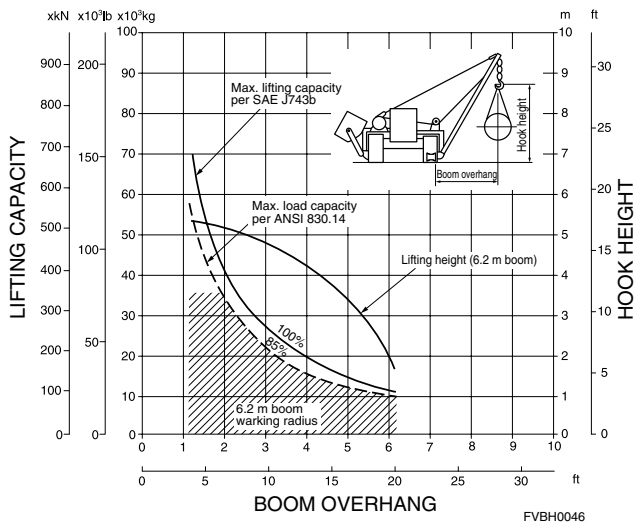


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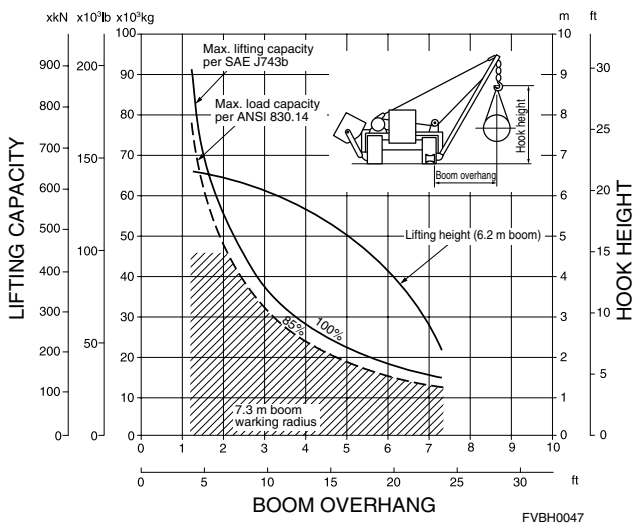
D85C-21



D155C-1



D355C-3



SECTION **1F**

TRIMMING DOZERS

CONTENTS

Trimming Operation in Vessel	1F-2
Design Features	1F-3
Standard Equipment	1F-5
Track Shoe Selection	1F-6
Specifications	1F-7

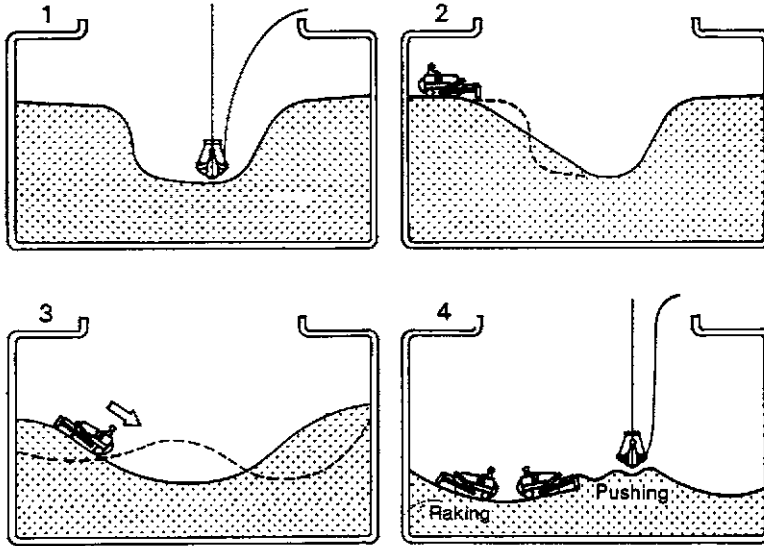
Trimming Operation in Vessel

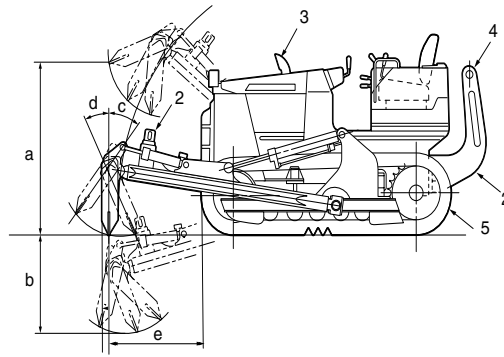
TRIMMING DOZERS

Unloading clamshell buckets and pneumatic unloader have been conventionally used to unload bulk cargoes (grain, salt, sugar, coal, ore fertilizer, chips, etc.) from vessels. However, the bucket scooping amount of unloading materials or suction decreases when the unloading work progresses, resulting in a corresponding deterioration of unloading efficiency.

This reduced efficiency means that vessels must remain longer in port, leading to a direct lowering of vessel operating efficiency and a substantial increase in port charges. Consequently, it has become necessary to find an effective method to facilitate bulk unloading. The conventional method is bulk cargoes were raked manually has been replaced by the bulldozer, and a trimming dozer has now been developed specifically for the handling of bulk cargoes in vessels.

Wheel loaders have often been employed at the final stages of unloading to protect the bottom of the vessel hold, however these have been replaced quite recently by trimming dozers equipped with rubber crawler.





(1) Trimming blade

Since the maximum lift (a), maximum drop (b), forward pitch angle (c) and backward pitch angle (d) of the blade are larger than usual and the breast dimension (e) is longer, substantially greater amounts of the bulk cargo can be raked and pushed at a time.

(2) Rear protector

Even if the trimming dozer inadvertently touches the hold frame, shoring, etc., the protector effectively prevents damage to the fuel and hydraulic oil tanks.

(3) Short exhaust pipe

A short exhaust pipe has been fitted to the trimming dozer to reduce overall height.

(4) Slinging hooks

The trimming dozer is provided with slinging hooks to enable it to be lowered into the hold.

(5) Track coming off prevention

Bulk cargo material caught between the tracks and sprocket is released through holes provided in the shoes, and this prevents the tracks from coming off.

(6) Dust preventive measures

Exhaust gas remains inside the hold, and dust resulting from the operation of the blade and the tracks accumulates both inside and outside the trimming dozer. To counter this problem, various measures have been taken.

1) Washable air cleaner inner element

Since the interior of the hold is extremely dusty, the air cleaner element becomes quickly clogged. However, as the inner elements are made of no-woven cloth or urethane and can therefore be washed, maintenance cost is greatly reduced.

2) Facilitation of washing

The trimming dozer requires washing on completion of one operation in readiness for the next to prevent deposits from the first operation being mixed in with the subsequent one. Hinges have therefore been adopted for the radiator grille and undercover to facilitate washing.

(7) Corrosion preventive measures

Bulk cargoes such as salt and potassium chloride corrode the terminals of electrical equipment, leading to short-circuiting. Thus, corrosion-proof alternators and starting motors have been adopted for the trimming dozers, and terminals are coated with silicone compound.

(8) Safety measures

Trimming dozers are equipped with backup buzzers and red color lights to provide ample warning when moving in reverse.

The trimming dozers destined for in-vessel cargo work are selected so as that other cargo handling unloaders and derricks may function with good efficiency.

When selection is made on the models of trimming dozer, the structure of holds (hatch size, existence of twin deck, frame conditions, etc.), capacity of unloader (lifting capacity and cargo volume), and cargo material to be handled must be taken into consideration.

(1) Lifting capacity of derricks, unloaders, etc.(weight and height)

The most important factors to be taken into consideration for selecting the trimming dozer model are that the weight of the trimming dozer should be less than the capacity of derricks and unloaders that take them down to vessel hold.

(2) Hourly production

When trimming dozers are thrown into vessel cargo work theater, they have to work in cooperation with other unloading machines and other hold dozers, etc. It is necessary to grasp previously the treating capacity of each dozer, in order not only to elaborate the entire work schedule but also to study the economical of the work.

(3) Hatch opening area

Generally, the opening of vessels, hatch has sufficient dimensions for letting trimming dozers in and out of the hold, but it is advisable to check its dimensions prior to proceeding to actual work.

(4) Selection of track shoe

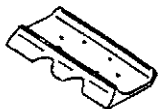
It is difficult to change the ground-pressure of the trimming dozer according to cargo to be handled. However, there exists a certain degree of adaptability to ground-pressure depending on the cargo. Therefore, it is recommended to take into consideration of the following table as a reference when selecting the shoe.

Standard Equipment

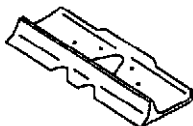
	D31E-P-20	D41A-3	D63E-12	D65E-EX-12
Air cleaner inner element, no-woven cloth made	○	○	○	○
Air cleaner inner element, urethane made				
Alternator, corrosion proof type	○	○	○	○
Backup buzzer	○	○	○	○
Backup lamp, red color	○	○	○	○
Cab			○	
Electric terminals, silicon compound coated	○	○	○	○
Engine side covers, perforated	○	○	○	○
Engine under guard, hinged type	○			
Exhaust pipe, short	○	○	○	
Fan, high speed	○			
Front lights, additional				
Fuel tank, large capacity				
Hydraulic cylinder rod, thick chrome plated	○	○	○	
Intake manifold, cast iron made	○			
Oil pan, dual-bottom	○	○		
Oil pan, stainless steel made				
Radiator core protective grid				
Radiator mask, hinged type	○	○	○	
Radiator, corrosion proof type				
Rear protector	○	○	○	○
Recoil spring, sealed type	○	○	○	○
Shoe, holed single grouser	○	○		
Shoe, holed triple grouser			○	
Starting motor, corrosion proof type	○	○	○	○
Tachometer with mechanical drive service meter				
Track adjusting cylinders, thick chrome plated	○	○	○	○
Transmission oil cooler, tiltable	○			
Wear resistant pulley	○			

	D85EX-15			
Air cleaner inner element, non-woven cloth made				
Air cleaner inner element, urethane made				
Air cleaner inner element, non-woven fabric made	○			
Alternator, corrosion proof type	○			
Backup buzzer	○			
Backup lamp, red color	○			
Cab				
Electric terminals, silicon compound coated				
Engine side covers, perforated				
Engine under guard, hinged type				
Exhaust pipe, elbow type				
Exhaust pipe, short	○			
Exhaust pipe, straight type	○			
Fan, high speed				
Front lights, additional				
Fuel tank, large capacity	○			
Hydraulic cylinder rod, thick chrome plated				
Intake manifold, cast iron made				
Oil pan, dual-bottom				
Oil pan, stainless steel made				
Radiator core protective grid				
Radiator mask, hinged type				
Radiator, corrosion proof type				
Rear protector	○			
Recoil spring, sealed type				
Shoe, holed single grouser				
Shoe, holed triple grouser				
Starting motor, corrosion proof type	○			
Tachometer with mechanical drive service meter				
Track adjusting cylinders, thick chrome plated				
Transmission oil cooler, tiltable				
Under guard, hinged type	○			
Wear resistant pulley				

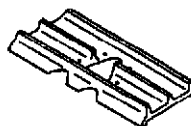
Track Shoe Selection



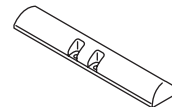
SINGLE GROUSER SHOE
A



HOLED SINGLE GROUSER SHOE
B



HOLED TRIPLE GROUSER SHOE
C



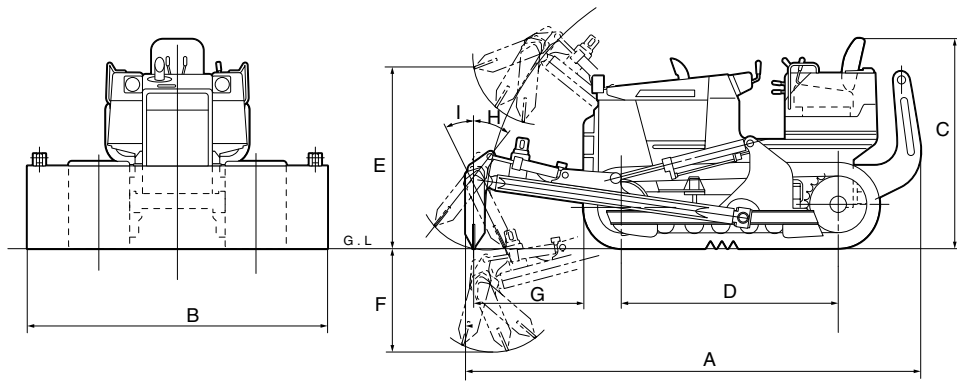
FVBH0241
SWAMP SHOE
D

Shoe width		D31E-20			D31P-20				D63E-12		
		A	B	C	A	B	C	D	A	B	C
300 mm (11.8")											
340 mm (13.4")											
400 mm (15.7")			○	○		○					
460 mm (18.1")											
510 mm (20.0")									○		○
560 mm (22.0")											
600 mm (23.6")						○		○			
Material	Ore	0.8 kg/cm ² (11.4 PSI)		○	○						
	Coal	0.8 kg/cm ² (11.4 PSI)		○	○			○	○		○
	Wooden chips	0.5 kg/cm ² (7.1 PSI)		○	○		○				
	Salt	0.5 kg/cm ² (7.1 PSI)		○	○						
	Sugar	0.5 kg/cm ² (7.1 PSI)		○			○				
	Grain	0.3 kg/cm ² (4.3 PSI)							○		
	Fertilizer	0.3 kg/cm ² (4.3 PSI)							○		

Shoe width		D65E-EX-12			D85EX-15			
		A	B	C	A	B	C	
300 mm (11.8")								
340 mm (13.4")								
400 mm (15.7")								
460 mm (18.1")								
510 mm (20.0")		○		○				
560 mm (22.0")					○		○	
600 mm (23.6")								
Material	Ore	0.8 kg/cm ² (11.4 PSI)	○		○	○		○
	Coal	0.8 kg/cm ² (11.4 PSI)	○		○	○		○
	Wooden chips	0.5 kg/cm ² (7.1 PSI)						
	Salt	0.5 kg/cm ² (7.1 PSI)	(○)		(○)			
	Sugar	0.5 kg/cm ² (7.1 PSI)						
	Grain	0.3 kg/cm ² (4.3 PSI)						
	Fertilizer	0.3 kg/cm ² (4.3 PSI)						

Note 1 : ○ : Currently available shoes which can be used. (○ means standard shoes.)

Note 2 : (○) : Ground pressures are greater than the target values but have been used so far.



Item		Model	D31E-20	D31P-20	D63E-12	D65E-12
OPERATING WEIGHT*		kg (lb)	7000 (15,430)	7660 (16,890)	17600 (38,800)	19950 (43,980)**
HORSEPOWER		KW (HP)/RPM	52.3 (70)/2350	52.3 (70)/2350	116 (155)/1800	135 (180)/1950
PERFORMANCE:						
Travel speed						
Forward	1st	km/h (MPH)	2.2 (1.4)	2.2 (1.4)	3.4 (2.1)	3.9 (2.4)
	2nd		3.9 (2.4)	3.9 (2.4)	5.8 (3.6)	6.8 (4.2)
	3rd		6.5 (4.0)	6.5 (4.0)	9.0 (5.6)	10.6 (6.6)
Reverse	1st		2.4 (1.5)	2.4 (1.5)	4.4 (2.7)	5.0 (3.1)
	2nd		4.3 (2.7)	4.3 (2.7)	7.5 (4.7)	8.6 (5.3)
	3rd		7.1 (4.4)	7.1 (4.4)	11.0 (6.8)	13.4 (8.3)
DIMENSION*						
A	Overall length	mm (ft.in)	4540 (14'11")	4700 (15'5")	5855 (19'3")	6475 (21'3")
B	Overall width	mm (ft.in)	2480 (8'2")	2780 (9'1")	3020 (9'11")	3210 (10'6")
C	Overall height	mm (ft.in)	2025 (6'8")	2045 (6'9")	2990 (9'10")***	3055 (10'0")***
D	Length of track on ground	mm (ft.in)	1880 (6'2")	2185 (7'2")	2725 (8'11")	2675 (8'9")
	Ground pressure	kg/cm ² (P.S.I)	0.47 (6.68)	0.29 (4.12)	0.63 (8.96)	0.73 (10.38)
DOZER EQUIPMENT						
	Weight (includes hydraulic control unit)	kg (lb)	1380 (3,040)	1280 (2820)	2550 (5,620)	4330 (9,550)
	Length	mm (ft.in)	2480 (8'2")	2780 (9'1")	3020 (9'11")	3210 (10'6")
	Height	mm (ft.in)	760 (2'6")	760 (2'6")	960 (3'2")	1000 (3'3")
E	Max. lift above ground	mm (ft.in)	1480 (4'10")	1630 (5'4")	1655 (5'5")	1610 (5'3")
F	Max. drop below ground	mm (ft.in)	710 (2'4")	650 (2'2")	735 (2'5")	685 (2'3")
G	Breast dimension	mm (ft.in)	1210 (4'0")	1370 (4'6")	1565 (5'2")	1610 (5'3")
	Max. pitch adjustment					
H	Forward	degree	38	37	45	29
I	Reverse	degree	24	26	26	22

Item		Model	D65EX-12	D85EX-15*5		
OPERATING WEIGHT*		kg (lb)	20120 (44,360)**	26540 (58,510)		
HORSEPOWER		KW (HP)/RPM	140 (190)/1950	179 (240)/1900		
PERFORMANCE:						
Travel speed						
Forward	1st	km/h (MPH)	3.9 (2.4)	3.6 (2.2)		
	2nd		6.8 (4.2)	6.1 (3.8)		
	3rd		10.6 (6.6)	10.1 (6.3)		
Reverse	1st		5.0 (3.1)	4.7 (2.9)		
	2nd		8.6 (5.3)	8.0 (5.0)		
	3rd		13.4 (8.3)	13.0 (8.1)		
DIMENSION*						
A	Overall length	mm (ft.in)	6475 (21'3")	6690 (21'11")		
B	Overall width	mm (ft.in)	3210 (10'6")	3410 (11'2")		
C	Overall height	mm (ft.in)	3055 (10'0")***	3290 (10'10")*4		
D	Length of track on ground	mm (ft.in)	2675 (8'9")	3050 (10'0")		
	Ground pressure	kg/cm ² (P.S.I)	0.74 (10.52)	0.78 (11.1)		
DOZER EQUIPMENT						
	Weight (includes hydraulic control unit)	kg (lb)	4330 (9,550)	3810 (8,400)		
	Length	mm (ft.in)	3210 (10'6")	3410 (11'2")		
	Height	mm (ft.in)	1000 (3'3")	1185 (3'11")		
E	Max. lift above ground	mm (ft.in)	1610 (5'3")	1730 (5'8")		
F	Max. drop below ground	mm (ft.in)	685 (2'3")	900 (2'11")		
G	Breast dimension	mm (ft.in)	1610 (5'3")	1620 (5'4")		
	Max. pitch adjustment					
H	Forward	degree	29	35		
I	Reverse	degree	22	35		

* : Including dozer equipment in addition to bare tractor
 ** : Including cab and air conditioner
 *** : To top of cab

*4: To top of ROPS
 *5: With ROPS & cab

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SECTION **2A**

EXCAVATORS (BACKHOE)

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Ecology Features

ecot3 (EPA Tier 3, EU Stage 3A certified engine)

Komatsu develops and produces all major components, such as engines, electronics and hydraulic components in house.

With this “Komatsu Technology”, and adding customer feedback, Komatsu is achieving great advancements in technology.

To achieve high levels of productivity and ecology, Komatsu developed the main components with an advanced control system.

The result is a new generation of high performance and environment friendly machines.



Fuel efficient electronic controlled engine

The engine is EPA Tier 3 and EU Stage 3A emission regulation certified. The engine is turbocharged and features Common Rail Injection System (CRI) and air-to-air aftercooling to maximize power, fuel efficiency and emission compliance.

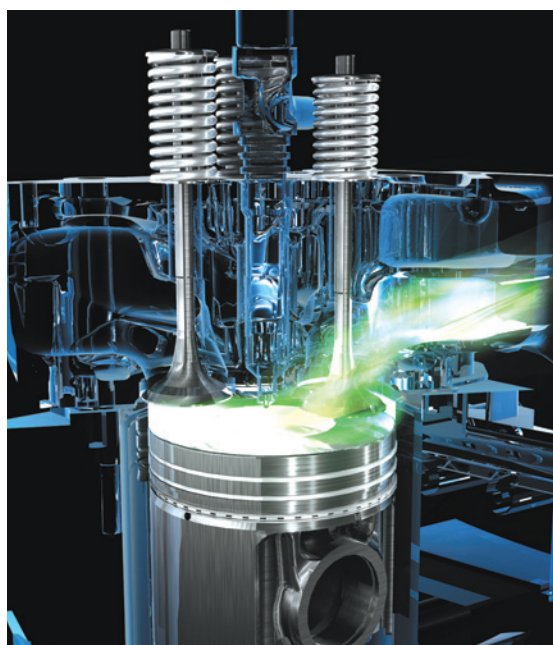
To minimize noise and vibration, the engine is mounted to the main frame with rubber cushions.

(PC130-8, PC160LC-8, PC200-8 – PC290-8, PC300-8 – PC450-8, PC600-8, PC800/850-8, PC1250-8)

Hydraulic drive radiator cooling fan

The engine cooling fan rotation speed is electronically controlled. The fan rotation speed depends on engine coolant and hydraulic oil temperatures, the higher the temperature the higher the fan speed. This system increases fuel efficiency, reduces the operating noise levels and requires less horsepower than belt driven fan.

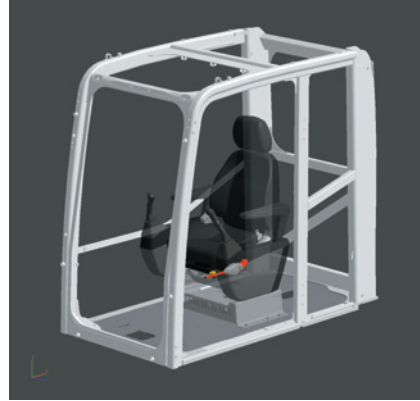
(PC600-8, PC800/850-8, PC1250-8)



Dash-8 series (PC130-8 – PC400-8)

Cab Dedicated to Hydraulic Excavator

The cab is designed specifically for hydraulic excavators' and gains reinforced strength from the pipe-structured cab framework. The cab frame work provides the high durability and impact resistance with very high impact absorbency. The seat belt keeps the operator is the safety of the cab during a rollover.



Large multi-lingual LCD Monitor

A large user-friendly color monitor enables safe, accurate and smooth work. Improved screen visibility is achieved by use of TFT liquid crystal display that can easily be read at various angles and lighting conditions. Simple and easy to operate switches. Industry first function keys facilitate multi-function operations.

Displays data in 10 languages to globally support operators around the world.



Indicators

- | | |
|----------------------------------|-----------------------------------|
| 1 Auto-decelerator | 5 Hydraulic oil temperature gauge |
| 2 Working mode | 6 Fuel gauge |
| 3 Travel speed | 7 Eco-gauge |
| 4 Engine water temperature gauge | 8 Function switches menu |

Basic operation switches

- | | |
|-------------------------|---------------------|
| 1 Auto-decelerator | 4 Buzzer cancel |
| 2 Working mode selector | 5 Wiper |
| 3 Traveling selector | 6 Windshield washer |

Eco-gauge that Assists Energy-saving Operations

Equipped with the Eco-gauge that can be recognized at glance on the right of the multi-monitor for environment-friendly energy-saving operations.

Allows focus on operation in the green range with reduced CO₂ emissions and efficient fuel consumption.



Idling Caution

To prevent unnecessary fuel consumption, an idling caution is displayed on the monitor, if the engine idles for 5 minutes or more.



Dash-7 Series

■ High production and low fuel consumption

• Working mode selection

Dash-7 excavators are equipped with three working modes (A, E and B mode).

Production is increased with larger output during Active mode while efficiency is further improved.

Working Mode	Application	Advantage
A	Active mode	<ul style="list-style-type: none"> • Maximum production/power • Fast cycle times
E	Economy mode	<ul style="list-style-type: none"> • Excellent fuel economy
B	Breaker operation	<ul style="list-style-type: none"> • Optimum engine rpm, hydraulic flow

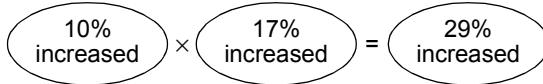
• Larger digging power provides increased production

Bucket digging force and bucket digging speed are increased, so resulting total bucket digging force increased.

(PC200-7, PC220-7)

Example: PC200-7

Bucket Digging Force Bucket Digging Speed Bucket Digging Power



• Larger arm crowd force and digging force provide increased production (PC300-7, PC600-7)

• Large lifting capacity

Lateral stability is improved resulting in increased lifting capacity.

• Larger maximum drawbar pull

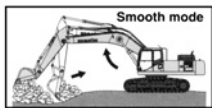
Maximum drawbar pull is increased, provides superb steering and slope climbing performance.

• Power max function

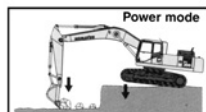
This function temporarily increases digging force by 7% for added power in tough situations.

• Two boom settings

Smooth mode provides easy operation for gathering blasted rock or scraping down operation. When maximum digging force is needed, switch to Power mode for more effective excavating. (PC300-7, PC800-7)



Boom floats upward, reducing lifting of machine front. This facilitates gathering blasted rock and scraping down operations.



Boom pushing force is increased, ditch digging and box digging operation on hard ground are improved.

■ Harmony with environment

• Low emission engine

Komatsu Dash-7 Series engine meets EPA, EU and Japan Tier II emissions regulations.

• Environment oriented mode (Economy mode)

Economy mode offers the user fuel savings, quiet operation and less CO₂ emission.

■ Large comfortable cab

• Large-sized cab

New cab volume is increased by 14%.

• Pressurized cab

With optional air conditioner, air filter and higher internal air pressure prevent external dust from entering the cab.

• Low noise

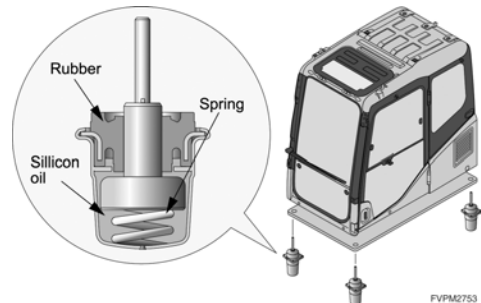
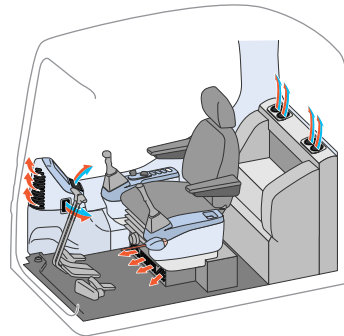
Noise is reduced not only from the engine but also during swing and hydraulic relief.

• Low vibration with cab damper mounting

The new cab damper mounting combined with strengthened left and right side decks aids vibration reduction at operator seat.

• Automatic air conditioner (Optional)

A 6,900 kcal (SAE) air conditioner is utilized.



FVPM2753

■ **Easy maintenance**

• **Hydraulic oil and filter/engine oil and filter replacement interval extended**

Oil and filter change interval

Item	Model	Dash-7	Avance series
Engine oil	h	500	250
Engine oil filter	h	500	250
Hydraulic oil	h	5000	5000
Hydraulic oil filter	h	1000	500

• **Easy radiator cleaning**

Clearance between radiator and oil cooler is increased to facilitate radiator core cleaning with an air nozzle.

• **Remote mounted engine oil filter and fuel drain valve for easy access**

• **Water separator is standard equipment**

• **Fuel tank capacity is increased**

• **SCSH bushings on work equipment extend lubricating interval from 100 hours to 500 hours (optional)**

■ **Multi-function color monitor (optional)**

• **Hydraulic pump oil flow adjustment system**

When installing attachments (breaker, crusher, etc.) and B, A, or E mode is selected, it is possible to adjust engine and hydraulic pump discharge flow to match attachment characteristics.

• **Lifting mode**

When the Lifting mode is selected, lifting capacity is increased by 7% by raising hydraulic pressure.

• **EMMS (Equipment Management Monitoring System)**

• **Monitor function**

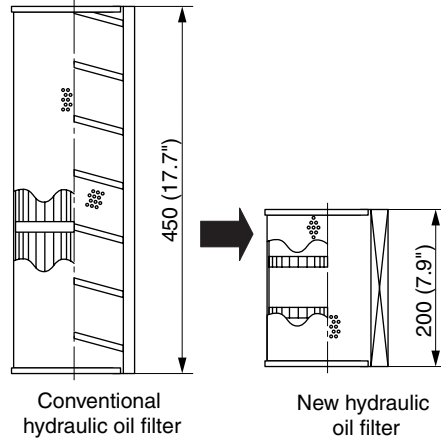
Controller monitors engine oil level, coolant level, engine oil pressure, coolant temperature, battery charge and air cleaner clogging, etc. If controller finds any abnormality, it is displayed on the LCD.

• **Maintenance function**

Monitor informs replacement time of oil and filters on LCD when the replacement interval is reached.

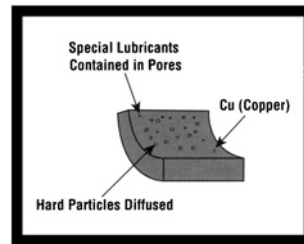
• **Trouble data memory function**

Monitor stores abnormalities for effective troubleshooting.

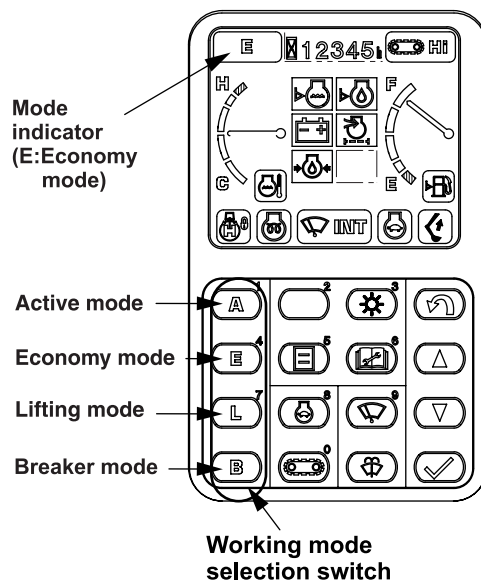


FZPM2775

SCSH Bushing



Deluxe spec monitor

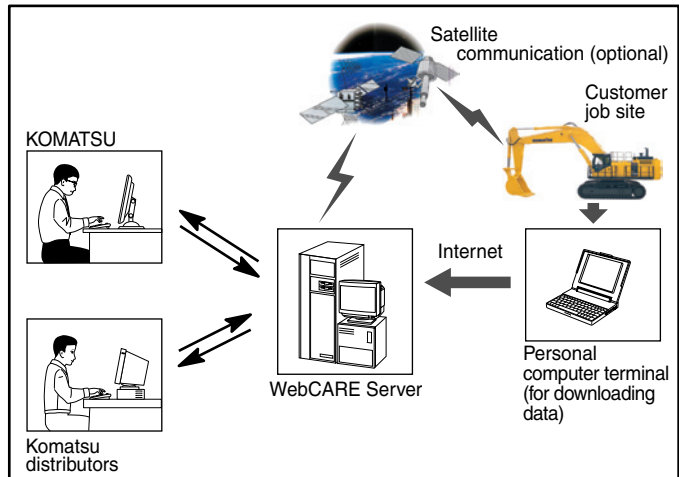


FZPM2902

VHMS (Vehicle Health Monitoring System)

VHMS controller monitors the health conditions of major components, enables remote analysis of the machine and its operation. This process is supported by the Komatsu distributors, factory and design team. This contributes to reduced repair costs and to maintaining maximum availability.

(PC1250-7, PC1250-8, PC2000-8)



■ Merits of Using VHMS

Diagnosis

- Machine health information that used to take approximately 1 hour to be measured can now be downloaded by personal computer in approximately 10 minutes, shortening the vehicle's down time.
- Furthermore, if the satellite communications function is equipped, the machine information can be gathered without stopping the vehicle at all. (Not available in some regions.)

Recommendation

- An appropriate recommendation can be made by viewing these data over the Internet.
 - Proper driving methods
 - Formulation of maintenance plans in advance that suit the customer's production schedule.

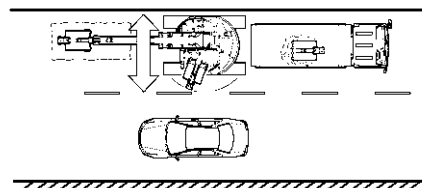
Customer's Benefit

- Sudden break down can be prevented through utilization of data trend (change over time).
- Ascertaining the facts and searching for the cause of the breakdown are simplified, thus enabling problems to be resolved quickly.
- Down time can be shortened by the systematic use of Reman components.
- Machine life can be extended significantly by proper operation and proper maintenance.

US-Series (Short tail. US stands for ultra tail and standard boom)

■ High productivity and safety

- **Short implement swing radius**
US series can work in areas where conventional profile excavators would pose a safety risk.
- **Short tail swing radius**
US series reduces the operator's need to check behind him for movement.
- **Wide working ranges**
Maximum digging height of the US series are larger than conventional machine.



Rubber Crawler Excavators

■ Komatsu rubber crawler excavators for low noise, low vibration and less damage

Compared to steel, rubber crawlers emit much less traveling noise and transmit far less vibration to the ground.

Rubber crawlers enable you to move your equipment smoothly and easily over short distances, without a carrier. There's no need to lay any extra sheet over the road because rubber causes less damage to roads and other paved areas. In other words, rubber crawlers and pad shoes are safer for the environment, more comfortable for the operator and less disturbing to the neighborhood.

Smooth, quiet, damage-free machines are just what you need for reconstruction and redevelopment projects in busy streets and other urban areas.

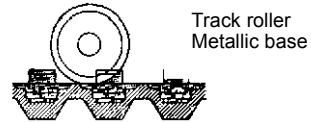
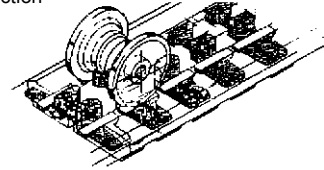
• Rubber crawlers for mini hydraulic excavator

When mini hydraulic excavators ride on durable rubber crawlers, they can accomplish an even wider variety of jobs smoothly, quietly and over all types of pavement, without damage to the urban environment.

In addition, large metallic base embedded in rubber assures extended crawler life.

The rubber crawler is securely held in position by two flanges of track rollers, minimizing the chance of crawler removal from the undercarriage and enabling stable traveling.

Strong, durable rubber crawler construction

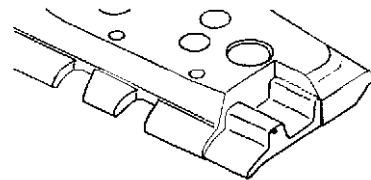


• Rubber pad shoes for medium-class hydraulic excavators

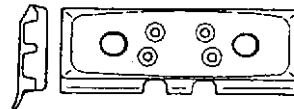
Rubber pad shoes provide the same strength as conventional tracks but with a smooth, quiet and gentle grip.

A blend of natural and synthetic rubbers assures maximum strength. This durable, hard material is baked onto the metallic triple-grouser shoe. As a result, the total shoe assembly is as strong as conventional shoes.

To assure lower maintenance costs, each rubber pad shoe is bolted on the track link in the same manner as standard steel shoes. So, shoe plates are completely interchangeable and only damaged shoes need to be replaced. What's more, rubber pad shoes offer extended service life because even after the rubber pad wears out, these shoes are still usable as the flat or triple-grouser shoes.



Bolt-on pad rubber shoe



Komatsu Mining Shovel Features

High production with low running costs

High digging forces provide fast cycle times and low cost per tonnage

Environmental harmony

- Komatsu engines which meet EPA, EU and Japan emission regulations
- Extended oil change intervals and filter replacement intervals to reduce environmental impacts
- Long term experience in use of biological hydraulic oils and lubricants, as an option available

Large, comfortable and safe mining operator's cab

- Integrated FOPS structure according ISO 3449
- Internal floor area 4.2 m² (6510 sq.in)
- Large windows for good all around visibility
- Side sliding windows
- Pressurized to keep dust out
- Noise level in cab approx. 76 dB(A) according ISO 63096
- High intensive XENON working lights.
- Cab heating and air conditioner of 10 kW
- Comfortable multi-functional operator seat with internal heating
- Second swing out fold away seat for trainer
- Wash-hand basin
- Refrigerator

ECS or VHMS monitoring system for greater machine efficiency and low maintenance time

- Comprehensive overview of shovel functions with operator friendly display
- Optional data transfer possibility via Modular Mining System controller
- All important machine running datas are monitored and electronically stored, with down load facility
- Acoustic and visually alarms warn of machine malfunctions

Komatsu Engine

- Latest engine technology compliant with emission regulations
- Engine life time self cleaning stainless steel engine oil filter (ELIMINATOR) to avoid filter change; only filter cleaning at every 1000 hour is required
- Engine oil management system (Reserve and Centinel system) to extend oil change intervals up to 4000 hours
- Fuel tank capacity for continuous work up to 24 hours

Electric drive as option

- Electric motor 6600/7200 V and 50 or 60 Hz available
- Squirrel cage motor with soft start
- Optimized electrical design for all international standards
- Compact design with low vibration and noise
- Cable drum with automatic tensioning, as option

Komatsu hydraulic system HYDRO-PILOT

- Multi-circuit hydraulic system with electronic load governor, pump flow summation capability, and oil flow priority based on demand, for fast working cycles and high productivity
- All main hydraulic circuits are run at one pressure level only, simplifying pressure adjustment and service
- Each circuit with connection facility for pressure check gauges
- Changing from front shovel to backhoe is simple
- Un-pressurized hydraulic tank with large pump suction lines and low pump speed prevents risk of cavitation
- Each hydraulic circuit protected with high pressure filters
- Full flow 10 µm return line filters for system safety and for supplementary circuits 3 µm by-pass filter to improve oil quality for long component lifetime
- Swing out hydraulic cooler for simple cleaning to keep the cooling efficiency

Heavy-duty shovel undercarriage design

- Komatsu Mining Germany track system with oscillating shoes for optimum response to rugged mining ground conditions
- Lifetime lubricated rollers
- Automatic track tensioning system
- Track shoes in high quality casting steel and engineered by finite element method
- Precision hard facing of contact surfaces for long term performance
- Different width of shoes available for best performance in softer mining ground conditions

Attachments

- Backhoe attachment available for all mining applications
- Closed box design combining steel plates and castings, engineered by finite element method for full lifetime
- Wide selection of buckets and customized options
- Bucket wear package ranges to meet all mining conditions
- Attachment pin sealing arrangement for reduced bearing wear-parts costs

Service

- Hydraulically assisted ladder for ease and convenience access
- Upper structure walkway allows safe access to all service points
- Walk in machinery house provides all weather protection for service attention
- Automatic central lubrication system for attachment and main swing bearing
- Swing down service arm for fast, ground level refilling and evacuation and the minimizing of leakages during service
- Complete machine delivered in pre-tested modules for fast erection on job side

Series Selection

You can choose the right machines for your work, factory-equipped for your operation.

- **"Dash-8" Series, "Dash-7" Series, AVANCE "Standard" Series**

Flexible, efficient excavators for a wider range of work

- **"Dash-8" Series, "Dash-7" Series**

"Heavy-duty" excavators with reinforced undercarriages for logging and scrap handling

- **AVANCE "US" Series**

Excavators with short tail swing profile for work on road ways,urban areas and logging road way

Series selection by industry segment and application

Industry	Application	Site condition	Series					
			DASH-8			DASH-7		AVANCE
			STD	HD	US	STD	HD	STD
General construction	Digging & loading leveling		⊙		⊙	⊙		⊙
	Hammering		⊙		⊙ *	⊙		⊙ *
	Pile driving		⊙		⊙	⊙		⊙
	Tree clearing		⊙		⊙	⊙		⊙
Quarry & mining Aggregates	Digging & loading	Soft overburden	⊙			⊙		⊙
		Soft/blasted rock	⊙			⊙		⊙
		Quarry maintenance	⊙			⊙		⊙
		River gravel	⊙			⊙		⊙
	Stone quarry	⊙			⊙		⊙	
Hammering		⊙			⊙		⊙ *	
Logging	Road construction Felling Skidding Delimiting Loading	Operating in forest	○ **	⊙ **	⊙	○ **	⊙ **	○ **
		Yard	⊙		⊙	⊙		⊙
Scrap handling steel plant etc.	Handling	Stable work	⊙			⊙		⊙
		Operating on scrap pile	○	⊙		○	⊙	○
		Lifting heavy material	⊙			⊙		⊙
Demolition	Building demolition	Concrete	⊙			⊙		○ *
		Wooden & brick	⊙		⊙	⊙		⊙ PC200& up ○ PC120
		Road	⊙		⊙	⊙		○

* When using hydraulic breaker, reinforcement of arm is required.

** Modification of machine body by attachment maker, is required for PC200 / 220.

Remarks: ⊙ - Optimum
○ - Possible

Specifications

EXCAVATORS (BACKHOE)

Item		Model	PC01-1	PC09-1	PC14R-3	PC16R-3
Source			Japan	Japan	Italy	Italy
OPERATING WEIGHT*		kg (lb)	380 (840)	890 (1,960)	1440 (3,170)	1570 (3,460)
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	2.6 (3.5)/3000	6.2 (8.4)/2800	11.2 (14.7)/2600	11.2 (14.7)/2600
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.008 (0.01)	0.017 ~ 0.025 (0.022) (0.033)	0.03 ~ 0.06 (0.04) (0.078)	0.03 ~ 0.06 (0.04) (0.078)
PERFORMANCE: Swing speed Max travel speed		RPM km/h (MPH) Hi Lo	7.0 1.4 (0.9)	8.3 3.0 (1.9) 1.5 (0.9)	8.9 2 (1.2)	8.9 4.2 (2.6) 2.2 (1.4)
DIMENSIONS: See the page of dimensions.						
ENGINE: Model No. of cylinders- bore × stroke Piston displacement		mm (in) ltr. (cu.in)	HONDA GX160KI 1-68 × 45 (2.67 × 1.77) 0.163 (9.9)	KOMATSU 2D68E 2-68 × 72 (2.68 × 2.83) 0.522 (31.9)	KOMATSU 3D67E 3-67 × 73.6 (2.64 × 2.90) 0.778 (47.5)	KOMATSU 3D67E-2A 3-67 × 73.6 (2.64 × 2.90) 0.778 (47.5)
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Max. oil pressure (Implement)		ltr. (U.S.Gal)/min. kg/cm ² (PSI)	Gear pumps 10 (2.6) 150 (2130)	Gear pumps 22 (5.8) 160 (2275)	Gear pumps 40.8 (10.8) 194 (2760)	1 × Variable Piston 40.8 (10.8) 214 (3040)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	130 (5)/ 0.17 (2.4)	180 (7)/ 0.28 (4.0)	230 (9)/ 0.27 (3.8)	230 (9)/ 0.30 (4.3)
CAPACITY (Refilled): Fuel tank Hydraulic oil tank		ltr. (U.S.Gal)	4.5 (1.2) 4.8 (1.3)	11 (2.9) 12 (3.2)	19 (5.0) 12 (3.2)	19 (5.0) 12 (3.2)
MACHINE SPEC: Boom Arm Bucket (SAE) Upper attachment		mm (ft.in) mm (ft.in) m ³ (cu.yd)	920 (3') 480 (1'7") 0.008 (0.01)	1357 (4'5") 684 (2'3") 0.022 (0.029)	880 (2'11") 0.04 (0.05) Canopy	965 (3'2") 0.04 (0.05) Canopy

Item		Model	PC18MR-3	PC20MR-3	PC26MR-3	PC27MR-3
Source			Japan	Japan	Italy	Japan
OPERATING WEIGHT*		kg (lb)	1780 (3,920)	2155 (4,750)	2710 (5,970)	2890 (6,370)
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	11.2 (15.0)/2600	15.5 (20.8)/2500	15.5 (21)/2500	19.2 (25.7)/2600
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.022 ~ 0.044 (0.029) (0.058)	0.033 ~ 0.08 (0.043) (0.10)	0.035 ~ 0.085 (0.046) (0.11)	0.035 ~ 0.09 (0.046) (0.12)
PERFORMANCE: Swing speed Max travel speed		RPM km/h (MPH) Hi Lo	8.9 4.3 (2.7) 2.3 (1.4)	8.9 4.6 (2.9) 2.8 (1.7)	8.9 4.0 (2.5) 2.5 (1.6)	9.2 4.8 (3.0) 2.6 (1.6)
DIMENSIONS: See the page of dimensions.						
ENGINE: Model No. of cylinders- bore × stroke Piston displacement		mm (in) ltr. (cu.in)	KOMATSU 3D67E-2A 3-67 × 73.6 (2.64 × 2.90) 0.778 (47)	KOMATSU 3D76E-6 3-76 × 78 (2.99 × 3.07) 1.115 (68.0)	KOMATSU 3D76E 3-76 × 78 (2.99 × 3.07) 1.115 (68.0)	KOMATSU 3D82AE-6 3-82 × 84 (3.23 × 3.31) 1.33 (81.2)
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Max. oil pressure (Implement)		ltr. (U.S. Gal)/min. kg/cm ² (PSI)	1 × Variable Piston+Gear pump 54.3 (14.3) 235 (3340)	1 × Variable Piston+Gear pump 68.9 (18.2) 250 (3555)	1 × Variable Piston+Gear pump 69.1 (18.3) 250 (3555)	1 × Variable Piston+Gear pump 92 (24.3) 250 (3555)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	230 (9)/ 0.29 (4.1)	250 (10)/ 0.27 (3.8)	300 (12)/ 0.25 (3.6)	300 (12)/ 0.30 (4.3)
CAPACITY (Refilled): Fuel tank Hydraulic oil tank		ltr. (U.S.Gal)	19 (5.0) 15.2 (4.0)	28 (7.4) 19 (5.0)	28 (7.4) 30 (7.9)**	44 (11.6) 14 (3.7)
MACHINE SPEC: Boom Arm Bucket (SAE) Upper attachment		mm (ft.in) mm (ft.in) m ³ (cu.yd)	1760 (5'9") 965 (3'2") 0.044 (0.058) ROPS Canopy	1320 (4'4") 970 (3'2") 0.066 (0.86) ROPS Canopy	1115 (3'8") 0.07 (0.09) ROPS Cab	2180 (7'2") 1100 (3'7") 0.08 (0.105) ROPS Canopy

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg (180lb) and, indicated implement, shoes and upper attachment.

** Full capacity

Specifications

EXCAVATORS (BACKHOE)

Item		Model	PC30MR-3	PC35MR-3	PC45MR-3	PC55MR-3	
Source			Japan	Japan	Japan	Japan	
OPERATING WEIGHT*		kg (lb)	3140 (6,920)	3575 (7,880)	4775 (10,480)	5160 (11,380)	
HORSEPOWER		SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	21.4 (28.6)/2400	21.4 (28.6)/2400	28.5 (38.2)/2400	28.5 (38.2)/2400
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.035 ~ 0.11 (0.045) (0.14)	0.055 ~ 0.13 (0.07) (0.17)	0.055 ~ 0.16 (0.07) (0.21)	0.055 ~ 0.16 (0.07) (0.21)	
PERFORMANCE:							
Swing speed		RPM	9.3	9	9	9	
Max travel speed		Hi Lo km/h (MPH)	4.6 (2.9) 2.5 (1.6)	4.8 (3.0) 2.8 (1.7)	4.8 (3.0) 2.8 (1.7)	4.6 (2.9) 2.8 (1.7)	
DIMENSIONS: See the page of dimensions.							
ENGINE:							
Model			KOMATSU 3D88E-6	KOMATSU 3D88E-6	KOMATSU 4D88E-6	KOMATSU 4D88E-6	
No. of cylinders- bore × stroke		mm (in)	3-88 × 90 (3.46 × 3.54)	3-88 × 90 (3.46 × 3.54)	4-88 × 90 (3.46 × 3.54)	4-88 × 90 (3.46 × 3.54)	
Piston displacement		ltr. (cu.in)	1.642 (100)	1.642 (100)	2.189 (134)	2.189 (134)	
HYDRAULIC SYSTEM:							
Hydraulic pump			1 × Variable Piston+Gear pump	2 × Variable Piston+Gear pump	2 × Variable Piston+Gear pump	2 × Variable Piston+Gear pump	
Max. oil flow		ltr. (U.S. Gal)/min.	89.6 (23.6)	92 (24.3)	140.8 (37.2)	140.8 (37.2)	
Max. oil pressure (Implement)		kg/cm ² (PSI)	265 (3770)	265 (3770)	270 (3840)	270 (3840)	
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	300 (12)/ 0.30 (4.3)	300 (12)/ 0.34 (4.8)	400 (16)/ 0.27 (3.8)	400 (16)/ 0.29 (4.1)	
CAPACITY (Refilled):							
Fuel tank		ltr. (U.S.Gal)	44 (11.6)	44 (11.6)	65 (17.2)	65 (17.2)	
Hydraulic oil tank			14 (3.7)	14 (3.7)	20 (5.3)	20 (5.3)	
MACHINE SPEC:							
Boom		mm (ft.in)	2370 (7'9")	2540 (8'4")	2640 (8'8")	2900 (9'6")	
Arm		mm (ft.in)	1240 (4'1")	1370 (4'6")	1375 (4'6")	1640 (5'5")	
Bucket (SAE)		m ³ (cu.yd)	0.09 (0.12)	0.11 (0.14)	0.14 (0.18)	0.16 (0.21)	
Upper attachment			ROPS Canopy	ROPS Canopy	ROPS Canopy	ROPS Canopy	

Item		Model	•PC78US-8	PC80MR-3	•PC88MR-8	PC110R-1	
Source			Japan	Italy	Japan	Italy	
OPERATING WEIGHT*		kg (lb)	6945 (15,315)	7618 (16,790)	8225 (18,140)	10560 (23,280)	
HORSEPOWER		SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	42.8 (57)/1950 41.5 (55)/1950	45.6 (61.2)/2200	50.7 (68)/1950 49 (65)/1950	70.9 (95)/2000
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.09 ~ 0.34 (0.12) (0.45)	0.086 ~ 0.265 (0.11) (0.35)	0.09 ~ 0.34 (0.12) (0.45)	0.093 ~ 0.40 (0.12) (0.52)	
PERFORMANCE:							
Swing speed		RPM	10.0	10.2	10.0	9.0	
Max travel speed		Hi Lo km/h (MPH)	5.0 (3.1) 2.9 (1.8)	4.9 (3.0) 2.9 (1.8)	5.1 (3.2) 2.9 (1.8)	4.1 (2.5) 2.8 (1.7)	
DIMENSIONS: See the page of dimensions.							
ENGINE:							
Model			KOMATSU SAA4D95LE-5	KOMATSU 4D98E-3ZSFB	KOMATSU SAA4D95LE-5	KOMATSU S4D106E-1FD	
No. of cylinders- bore × stroke		mm (in)	4-95 × 115 (3.74 × 4.53)	4-98 × 110 (3.86 × 4.33)	4-95 × 115 (3.74 × 4.53)	4-106 × 125 (4.17 × 4.92)	
Piston displacement		ltr. (cu.in)	3.26 (199)	3.318 (202)	3.26 (199)	4.41 (269)	
HYDRAULIC SYSTEM:							
Hydraulic pump			2 × Variable Piston	1 × Variable Piston+Gear pump	1 × Variable Piston	1 × Variable Piston+Gear pump	
Max. oil flow		ltr. (U.S. Gal)/min.	223 (49.1)	250 (66.1)	160 (42.2)	253 (67)	
Max. oil pressure (Implement)		kg/cm ² (PSI)	270 (3840)	270 (3840)	270 (2840)	300 (4270)	
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	450 (18)/ 0.32 (4.5)	450 (18)/ 0.34 (4.8)	450 (18)/ 0.37 (5.3)	500 (20)/	
CAPACITY (Refilled):							
Fuel tank		ltr. (U.S.Gal)	125 (33)	110 (29.1)	125 (33)	150 (39.6)	
Hydraulic oil tank			56 (14.8)	65 (17.2)	56 (14.8)	84 (22.2)	
MACHINE SPEC:							
Boom		mm (ft.in)	3710 (12'2")		3405 (11'2")	4600 (15'1")	
Arm		mm (ft.in)	1650 (5'5")	1650 (5'5")	1650 (6'5")	2000 (6'7")	
Bucket (SAE)		m ³ (cu.yd)	0.28 (0.37)	0.2 (0.26)	0.28 (0.37)	0.32 (0.42)	

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

- EPA Interim Tier 4 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Item		Model	PC120-6	•PC130-8	•PC130-8	PC130-7
Source			Japan	Japan	UK	China
OPERATING WEIGHT*		kg (lb)	12030 (26,520)	12380 (27,300)	12800 (28,220)	12600 (27,780)
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	64 (86)/2200	72.1 (96.6)/2200 68.4 (91.7)/2200	68.4 (91.7)/2200	66 (88)/2200
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.18 ~ 0.60 (0.24) (0.78)	0.18 ~ 0.60 (0.24) (0.78)	0.25 ~ 0.80 (0.33) (1.05)	0.36 ~ 0.64 (0.47) (0.84)
PERFORMANCE: Swing speed Max travel speed		RPM km/h (MPH) Hi Mi Lo	11.0 5.5 (3.4) 3.6 (2.2) 2.7 (1.7)	11.0 5.5 (3.4) — 2.9 (1.8)	11.0 5.5 (3.4) — 2.9 (1.8)	11.0 5.5 (3.4) — 2.7 (1.7)
DIMENSIONS: See the page of dimensions.						
ENGINE: Model No. of cylinders- bore × stroke Piston displacement		mm (in) ltr. (cu.in)	KOMATSU S4D102E 4-102 × 120 (4.05 × 4.72) 3.92 (239)	KOMATSU SAA4D95LE-5 4-95 × 115 (3.74 × 4.53) 3.26 (199)	KOMATSU SAA4D95LE-5 4-95 × 115 (3.74 × 4.53) 3.26 (199)	KOMATSU SAA4D95LE 4-95 × 115 (3.74 × 4.53) 3.26 (199)
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Max. oil pressure (Implement)		ltr. (U.S. Gal)/min. kg/cm ² (PSI)	1 × Variable Piston 226 (60) 325 (4620)	1 × Variable Piston 241.5 (63.8) 325 (4620)	1 × Variable Piston 242 (64) 325 (4620)	1 × Variable Piston 226 (60) 355 (5050)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	500 (20)/ 0.40 (5.7)	500 (20)/ 0.39 (5.6)	500 (20)/ 0.41 (5.8)	500 (20)/ 0.39 (5.5)
CAPACITY (Refilled): Fuel tank Hydraulic oil tank		ltr. (U.S.Gal)	230 (60.8) 100 (26.4)	247 (65.3) 90 (23.8)	247 (65.3) 90 (23.8)	247 (65.3) 90 (23.8)
MACHINE SPEC: Boom Arm Bucket (SAE)		mm (ft.in) mm (ft.in) m ³ (cu.yd)	4600 (15'1") 2500 (8'2") 0.50 (0.65)	4600 (15'1") 2500 (8'2") 0.50 (0.65)	4600 (15'1") 2500 (8'2") 0.5 (0.65)	4600 (15'1") 2500 (8'2") 0.53 (0.69)

Item		Model	•PC138US-8	•PC138USLC-8**	•PC160LC-8	•PC160LC-7E0
Source			Japan	Japan	Japan	UK
OPERATING WEIGHT*		kg (lb)	13480 (29,720)	14290 (31,500)	16680 (36,770)	17160 (37,830)
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	72.1 (96.6)/2200 68.4 (91.7)/2200	72 (97)/2200 68 (92)/2200	90 (120)/2200 86 (115)/2200	90 (120)/2200 86 (115)/2200
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.18 ~ 0.60 (0.24) (0.78)	0.26 ~ 0.76 (0.34) (1.00)	0.60 ~ 0.70 (0.78) (0.92)	0.38 ~ 0.94 (0.50) (1.23)
PERFORMANCE: Swing speed Max travel speed		RPM km/h (MPH) Hi Mi Lo	11.0 5.1 (3.2) — 2.9 (1.8)	11.0 5.1 (3.2) — 2.9 (1.8)	12.0 5.5 (3.4) — 3.4 (2.1)	12.0 5.5 (3.4) — 3.4 (2.1)
DIMENSIONS: See the page of dimensions.						
ENGINE: Model No. of cylinders- bore × stroke Piston displacement		mm (in) ltr. (cu.in)	KOMATSU SAA4D95LE-5 4-95 × 115 (3.74 × 4.53) 3.26 (199)	KOMATSU SAA4D95LE-5 4-95 × 115 (3.74 × 4.53) 3.26 (199)	KOMATSU SAA4D107E-1 4-107 × 124 (4.21 × 4.88) 4.46 (272)	KOMATSU SAA4D107E-1 4-107 × 124 (4.21 × 4.88) 4.46 (272)
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Max. oil pressure (Implement)		ltr. (U.S. Gal)/min. kg/cm ² (PSI)	1 × Variable Piston 241.5 (63.8) 355 (5050)	1 × Variable Piston 242 (64) 355 (5050)	2 × Variable Piston 312 (82.4) 380 (5400)	2 × Variable Piston 312 (82.4) 380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	500 (20)/ 0.43 (6.1)	600 (24)/ 0.36 (5.1)	500 (20)/ 0.49 (7.0)	500 (20)/ 0.49 (7.0)
CAPACITY (Refilled): Fuel tank Hydraulic oil tank		ltr. (U.S.Gal)	195 (51.5) 69 (18.2)	200 (52.8) 69 (18.2)	280 (74) 121 (32.0)	280 (74) 121 (32.0)
MACHINE SPEC: Boom Arm Bucket (SAE)		mm (ft.in) mm (ft.in) m ³ (cu.yd)	4600 (15'1") 2500 (8'2") 0.50 (0.65)	4600 (15'1") 2500 (8'2") 0.5 (0.65)	5150 (16'11") 2610 (8'7") 0.65 (0.85)	5150 (16'11") 2610 (8'7") 0.66 (0.86)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

** For USA

• EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Model		PC160LC-7	*PC180LC-7E0	*PC180NLC-7E0	*PC200-8	
Source		China	UK	UK	Japan	
OPERATING WEIGHT*		kg (lb)	16400 (36,160)	18560 (40,920)	18400 (40,560)	19500 (42,990)
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	90 (120)/2200 82.4 (111)/2200	90 (120)/2200 86 (115)/2200	90 (120)/2200 86 (115)/2200	116 (155)/2000 110 (148)/2000
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.65 ~ 0.75 (0.85) (0.98)	0.38 ~ 1.14 (0.50) (1.49)	0.38 ~ 1.14 (0.50) (1.49)	0.50 ~ 1.17 (0.65) (1.53)
PERFORMANCE: Swing speed Max travel speed		RPM km/h (MPH) Hi Mi Lo	12.0 5.5 (3.4) 3.4 (2.1)	12.0 5.5 (3.4) 3.4 (2.1)	12.0 5.5 (3.4) 3.4 (2.1)	12.4 5.5 (3.4) 4.1 (2.5) 3.0 (1.9)
DIMENSIONS: See the page of dimensions.						
ENGINE: Model No. of cylinders- bore × stroke Piston displacement		mm (in) ltr. (cu.in)	KOMATSU SAA4D102E-2 4-102 × 120 (4.05 × 4.72) 3.92 (239)	KOMATSU SAA4D107E-1 4-107 × 124 (4.21 × 4.88) 4.46 (272)	KOMATSU SAA4D107E-1 4-107 × 124 (4.21 × 4.88) 4.46 (272)	KOMATSU SAA6D107E-1 6-107 × 124 (4.21 × 4.88) 6.69 (408)
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Max. oil pressure (Implement)		ltr. (U.S. Gal)/min. kg/cm ² (PSI)	2 × Variable Piston 312 (82.4) 380 (5400)	2 × Variable Piston 312 (82.4) 380 (5400)	2 × Variable Piston 312 (82.4) 380 (5400)	2 × Variable Piston 439 (116) 380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	500 (20)/ 0.47 (6.7)	600 (24)/ 0.43 (5.8)	500 (20)/ 0.49 (7.0)	600 (24)/ 0.46 (6.54)
CAPACITY (Refilled): Fuel tank Hydraulic oil tank		ltr. (U.S.Gal)	280 (74) 121 (32.0)	280 (74) 121 (32.0)	280 (74) 121 (32.0)	400 (105.7) 135 (35.7)
MACHINE SPEC: Boom Arm Bucket (SAE)		mm (ft.in) mm (ft.in) m ³ (cu.yd)	5150 (16'11") 2610 (8'7") 0.65 (0.85)	5150 (16'11") 2610 (8'7") 0.66 (0.86)	5150 (16'11") 2610 (8'7") 0.66 (0.86)	5700 (18' 8") 2925 (9' 7") 0.80 (1.05)

Model		*PC200-8	*PC200-8	PC200-7**	PC200-7	
Source		Thailand	China	Japan	Indonesia	
OPERATING WEIGHT*		kg (lb)	20010 (44,110)	19900 (43,870)	19500 (42,990)	20785 (45,820)
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	116 (155)/2000 110 (148)/2000	116 (155)/2000 110 (148)/2000	107 (143)/1950	107 (143)/1950
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.50 ~ 1.20 (0.66) (1.57)	0.80 ~ 1.00 (1.05) (1.31)	0.50 ~ 1.17 (0.65) (1.53)	0.93 (1.21)
PERFORMANCE: Swing speed Max travel speed		RPM km/h (MPH) Hi Mi Lo	12.4 5.5 (3.4) 4.1 (2.5) 3.0 (1.9)	12.4 5.5 (3.4) 4.1 (2.5) 3.0 (1.9)	12.4 5.5 (3.4) 3.0 (1.9)	12.4 5.5 (3.4) 3.0 (1.9)
DIMENSIONS: See the page of dimensions.						
ENGINE: Model No. of cylinders- bore × stroke Piston displacement		mm (in) ltr. (cu.in)	KOMATSU SAA6D107E-1 6-107 × 124 (4.21 × 4.88) 6.69 (408)	KOMATSU SAA6D107E-1 6-107 × 124 (4.21 × 4.88) 6.69 (408)	KOMATSU SAA6D102E-2 6-102 × 120 (4.02 × 4.72) 5.88 (359)	KOMATSU SAA6D102E-2 6-102 × 120 (4.02 × 4.72) 5.88 (359)
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Max. oil pressure (Implement)		ltr. (U.S. Gal)/min. kg/cm ² (PSI)	2 × Variable Piston 439 (116) 380 (5400)	2 × Variable Piston 439 (116) 380 (5400)	2 × Variable Piston 428 (113) 380 (5400)	2 × Variable Piston 428 (113) 380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	800 (24)/ 0.35 (4.98)	600 (24)/ 0.46 (6.5)	600 (24)/ 0.46 (6.5)	800 (32)/ 0.36 (5.12)
CAPACITY (Refilled): Fuel tank Hydraulic oil tank		ltr. (U.S.Gal)	400 (105.7) 135 (35.7)	400 (105.7) 135 (35.7)	400 (105.7) 143 (37.8)	400 (105.7) 143 (37.8)
MACHINE SPEC: Boom Arm Bucket (SAE)		mm (ft.in) mm (ft.in) m ³ (cu.yd)	5700 (18' 8") 2925 (9' 7") 1.02 (1.34)	5700 (18'8") 2925 (9'7") 0.8 (1.05)	5700 (18'8") 2925 (9'7") 0.80 (1.05)	5700 (18'8") 2925 (9'7") 0.93 (1.22)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

** For USA

• EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Model		PC200-7SEF	•PC200LC-8	•PC200LC-8	•PC200LC-8	
Source		Indonesia	Japan	USA	China	
OPERATING WEIGHT*		kg (lb)	21200 (46,740)	20900 (46,080)	21437 (47,260)	21300 (46,960)
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	107 (143)/1950	116 (155)/2000 110 (148)/2000	116 (155)/2000 110 (148)/2000	116 (155)/2000 110 (148)/2000
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	1.3 (1.7)	0.50 ~ 1.17 (0.65) (1.53)	0.50 ~ 1.20 (0.66) (1.57)	0.80 ~ 1.00 (1.05) (1.31)
PERFORMANCE: Swing speed Max travel speed		RPM km/h (MPH)	12.4 5.5 (3.4)	12.4 5.5 (3.4) 4.1 (2.5) 3.0 (1.9)	12.4 5.5 (3.4) 4.1 (2.5) 3.0 (1.9)	12.4 5.5 (3.4) 4.1 (2.5) 3.0 (1.9)
DIMENSIONS: See the page of dimensions.						
ENGINE: Model No. of cylinders- bore × stroke Piston displacement		mm (in) ltr. (cu.in)	KOMATSU SAA6D102E-2 6-102 × 120 (4.02 × 4.72) 5.88 (359)	KOMATSU SAA6D107E-1 6-107 × 124 (4.21 × 4.88) 6.69 (408)	KOMATSU SAA6D107E-1 6-107 × 124 (4.21 × 4.88) 6.69 (408)	KOMATSU SAA6D107E-1 6-107 × 124 (4.21 × 4.88) 6.69 (408)
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Max. oil pressure (Implement)		ltr. (U.S. Gal)/min. kg/cm ² (PSI)	2 × Variable Piston 428 (113) 380 (5400)	2 × Variable Piston 439 (116) 380 (5400)	2 × Variable Piston 439 (116) 380 (5400)	2 × Variable Piston 439 (116) 380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	800 (32)/ 0.37 (5.26)	700 (28)/ 0.44 (6.26)	800 (32)/ 0.34 (4.83)	600 (24)/ 0.45 (6.4)
CAPACITY (Refilled): Fuel tank Hydraulic oil tank		ltr. (U.S.Gal)	400 (105.7) 143 (37.8)	400 (105.7) 135 (35.7)	400 (105.7) 135 (35.7)	400 (105.7) 135 (35.7)
MACHINE SPEC: Boom Arm Bucket (SAE)		mm (ft.in) mm (ft.in) m ³ (cu.yd)	5200 (17'8") 1900 (6'3") 1.3 (1.7)	5700 (18'8") 2925 (9' 7") 0.80 (1.05)	5700 (18' 8") 2925 (9' 7") 1.02 (1.34)	5700 (18'8") 2925 (9'7") 0.80 (1.05)

Model		PC200LC-7**	•PC210-8	•PC210-8	•PC210LC-8	
Source		Japan	UK	China	China	
OPERATING WEIGHT*		kg (lb)	20900 (46,080)	21390 (47,160)	20000 (44,090)	21400 (47,180)
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	107 (143)/1950	116 (155)/2000 110 (148)/2000	116 (155)/2000 110 (148)/2000	116 (155)/2000 110 (148)/2000
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.50 ~ 1.17 (0.65) (1.53)	0.43 ~ 1.68 (0.56) (2.2)	0.80 ~ 1.00 (1.05) (1.31)	0.80 ~ 1.00 (1.05) (1.31)
PERFORMANCE: Swing speed Max travel speed		RPM km/h (MPH)	12.4 5.5 (3.4)	12.4 5.5 (3.4) 4.1 (2.5) 3.0 (1.9)	12.4 5.5 (3.4) 4.1 (2.5) 3.0 (1.9)	12.4 5.5 (3.4) 4.1 (2.5) 3.0 (1.9)
DIMENSIONS: See the page of dimensions.						
ENGINE: Model No. of cylinders- bore × stroke Piston displacement		mm (in) ltr. (cu.in)	KOMATSU SAA6D102E-2 6-102 × 120 (4.02 × 4.72) 5.88 (359)	KOMATSU SAA6D107E-1 6-107 × 124 (4.21 × 4.88) 6.69 (408)	KOMATSU SAA6D107E-1 6-107 × 124 (4.21 × 4.88) 6.69 (408)	KOMATSU SAA6D107E-1 6-107 × 120 (4.21 × 4.88) 6.69 (408)
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Max. oil pressure (Implement)		ltr. (U.S. Gal)/min. kg/cm ² (PSI)	2 × Variable Piston 428 (113) 380 (5400)	2 × Variable Piston 439 (116) 380 (5400)	2 × Variable Piston 439 (116) 380 (5400)	2 × Variable Piston 439 (116) 380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	700 (28)/ 0.38 (5.4)	600 (24)/ 0.46 (6.54)	600 (24)/ 0.46 (6.5)	600 (24)/ 0.45 (6.4)
CAPACITY (Refilled): Fuel tank Hydraulic oil tank		ltr. (U.S.Gal)	400 (105.7) 143 (37.8)	325 (85.9) 137 (36.2)	400 (105.7) 135 (35.7)	400 (105.7) 135 (35.7)
MACHINE SPEC: Boom Arm Bucket (SAE)		mm (ft.in) mm (ft.in) m ³ (cu.yd)	5700 (18'8") 2925 (9'7") 0.80 (1.05)	5700 (18' 8") 2925 (9' 7") 0.84 (1.10)	5700 (18'8") 2925 (9'7") 0.90 (1.18)	5700 (18'8") 2925 (9'7") 0.90 (1.18)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg (180lb) and, indicated implement, shoes and upper attachment.

** Basic spec.

• EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Item		Model	•PC210LC-8	•PC210NLC-8	•PC220-8	•PC220-8
Source			UK	UK	Japan	China
OPERATING WEIGHT*		kg (lb)	21990 (48,480)	21830 (48,130)	22900 (50,490)	23100 (50,930)
HORSEPOWER		SAE J1995 Gross kW (HP)/RPM ISO9249 /SAE J1349 Net kW (HP)/RPM Hyd. fan at max. speed Net kW (HP)/RPM	116 (155)/2000 110 (148)/2000	116 (155)/2000 110 (148)/2000	134 (179)/2000 125 (168)/2000	134 (179)/2000 125 (168)/2000
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.43 ~ 1.68 (0.56) (2.20)	0.43 ~ 1.68 (0.56) (2.20)	0.72 ~ 1.26 (0.94) (1.65)	1.0 ~ 1.26 (1.31) (1.65)
PERFORMANCE:						
Swing speed		RPM	12.4	12.4	11.7	11.7
Max travel speed		Hi Mi Lo km/h (MPH)	5.5 (3.4) 4.1 (2.5) 3.0 (1.9)	5.5 (3.4) 4.1 (2.5) 3.0 (1.9)	5.5 (3.4) 4.2 (2.6) 3.1 (1.9)	5.5 (3.4) 4.2 (2.6) 3.1 (1.9)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model			KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1
No. of cylinders- bore × stroke		mm (in)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-107 × 120 (4.21 × 4.88)
Piston displacement		ltr. (cu.in)	6.69 (408)	6.69 (408)	6.69 (408)	6.69 (408)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow		ltr. (U.S. Gal)/min.	439 (116)	439 (116)	439 (116)	439 (116)
Max. oil pressure (Implement)		kg/cm ² (PSI)	380 (5400)	380 (5400)	380 (5400)	380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	600 (24)/ 0.50 (7.11)	500 (20)/ 0.55 (7.82)	600 (24)/ 0.51 (7.25)	600 (24)/ 0.5 (7.1)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	325 (85.9)	325 (85.9)	400 (105.7)	400 (105.7)
Hydraulic oil tank			137 (36.2)	137 (36.2)	135 (35.7)	135 (35.7)
MACHINE SPEC:						
Boom		mm (ft.in)	5700 (18' 8")	5700 (18' 8")	5850 (19.2)	5850 (19'2")
Arm		mm (ft.in)	2925 (9' 7")	2925 (9' 7")	3045 (10'0")	3045 (10'0")
Bucket (SAE)		m ³ (cu.yd)	0.84 (1.10)	0.84 (1.10)	1.00 (1.31)	1.0 (1.31)

Item		Model	PC220-7**	•PC220LC-8	•PC220LC-8	PC220LC-7**
Source			Japan	Japan	USA	Japan
OPERATING WEIGHT*		kg (lb)	22840 (50,350)	24330 (53,640)	24914 (54,926)	24270 (53,510)
HORSEPOWER		SAE J1995 Gross kW (HP)/RPM ISO9249 /SAE J1349 Net kW (HP)/RPM Hyd. fan at max. speed Net kW (HP)/RPM	125 (168)/2200	134 (179)/2000 125 (168)/2000	134 (179)/2000 125 (168)/2000	125 (168)/2200
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.72 ~ 1.26 (0.94) (1.65)	0.72 ~ 1.26 (0.94) (1.65)	0.58 ~ 1.41 (0.76) (1.85)	0.72 ~ 1.26 (0.94) (1.65)
PERFORMANCE:						
Swing speed		RPM	11.7	11.7	11.7	11.7
Max travel speed		Hi Mi Lo km/h (MPH)	5.5 (3.4) 3.1 (1.9)	5.5 (3.4) 4.2 (2.6) 3.1 (1.9)	5.5 (3.4) 4.2 (2.6) 3.1 (1.9)	5.5 (3.4) 3.1 (1.9)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model			KOMATSU SAA6D102E-2	KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	KOMATSU SAA6D102E-2
No. of cylinders- bore × stroke		mm (in)	6-102 × 120 (4.02 × 4.72)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-102 × 120 (4.02 × 4.72)
Piston displacement		ltr. (cu.in)	5.88 (359)	6.69 (408)	6.69 (408)	5.88 (359)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow		ltr. (U.S. Gal)/min.	439 (116)	439 (116)	439 (116)	439 (116)
Max. oil pressure (Implement)		kg/cm ² (PSI)	380 (5400)	380 (5400)	380 (5400)	380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	600 (24)/ 0.51 (7.3)	700 (28)/ 0.42 (5.97)	800 (31.5)/ 0.38 (5.38)	700 (28)/ 0.42 (6.0)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	400 (105.7)	400 (105.7)	400 (105.7)	400 (105.7)
Hydraulic oil tank			143 (37.8)	135 (35.7)	135 (35.7)	143 (37.8)
MACHINE SPEC:						
Boom		mm (ft.in)	5850 (19'2")	5850 (19.2)	5850 (19.2)	5850 (19'2")
Arm		mm (ft.in)	3045 (10'0")	3045 (10'0")	3045 (10'0")	3045 (10'0")
Bucket (SAE)		m ³ (cu.yd)	1.0 (1.31)	1.00 (1.31)	1.20 (1.57)	1.0 (1.31)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

** Basic spec.

• EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Model		•PC228US-3E0	•PC228USLC-3E0	•PC228USLC-3E0*4	•PC230NHD-8	
Source		Japan	Japan	Japan	UK	
OPERATING WEIGHT*		kg (lb)	21900 (48,280)	22900 (50,490)	23850 (52,580)	22820 (50,310)
HORSEPOWER		SAE J1995 Gross kW (HP)/RPM	116 (155)/2000	116 (155)/2000	107 (143)/1950	116 (155)/2000
		ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net kW (HP)/RPM	110 (148)/2000	110 (148)/2000		110 (148)/2000
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.50 ~ 1.05 (0.65) (1.37)	0.50 ~ 1.05 (0.65) (1.37)	0.48 ~ 1.68 (0.63) (2.20)	0.43 ~ 1.58 (0.56) (2.07)
PERFORMANCE:						
Swing speed		RPM	11.0	11.0	11.0	12.4
Max travel speed		Hi km/h (MPH)	5.5 (3.4)	5.5 (3.4)	5.5 (3.4)	5.4 (3.4)
		Mi	4.1 (2.5)	4.1 (2.5)	4.1 (2.5)	3.6 (2.2)
		Lo	3.0 (1.9)	3.4 (2.1)	3.0 (2.1)	2.6 (1.6)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model		KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	
No. of cylinders-bore × stroke		mm (in)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)
Piston displacement		ltr. (cu.in)	6.69 (408)	6.69 (408)	6.69 (408)	6.69 (415)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow		ltr. (U.S. Gal)/min.	440 (116)	440 (116)	438 (116)	438 (116)
Max. oil pressure (Implement)		kg/cm ² (PSI)	355 (5050)	355 (5050)	355 (5050)	380 (5400)
Track shoe width/ground pressure		mm (in)/kg/cm ² (PSI)	600 (24)/0.51 (7.25)	700 (28)/0.41 (5.83)	700 (28)/0.43 (6.1)	550 (22)/0.56 (8.0)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	320 (84.5)	320 (84.5)	320 (84.5)	325 (85.9)
Hydraulic oil tank			126 (33.3)	126 (33.3)	126 (33.3)	137 (36.2)
MACHINE SPEC:						
Boom		mm (ft.in)	5700 (18'8")	5700 (18'8")		5700 (18' 8")
Arm		mm (ft.in)	2925 (9'7")	2925 (9'7")	2925 (9'7")	2400 (7' 10")
Bucket (SAE)		m ³ (cu.yd)	0.8 (1.05)	0.8 (1.05)	0.78 (1.02)	1.16 (1.52)

Model		•PC240LC-8	•PC240NLC-8	•PC240LC-8	•PC270-8	
Source		UK	UK	China	Japan	
OPERATING WEIGHT*		kg (lb)	25500 (56,220)	24600 (54,230)	25130 (55,400)	27140 (59,830)
HORSEPOWER		SAE J1995 Gross kW (HP)/RPM	134 (179)/2000	134 (179)/2000	134 (179)/2000	149 (200)/2050
		ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net kW (HP)/RPM	125 (168)/2000	125 (168)/2000	125 (168)/2000	140 (187)/2050
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.47 ~ 1.89 (0.61) (2.47)	0.47 ~ 1.89 (0.61) (2.47)	1.0 ~ 1.2 (1.31) (1.57)	1.14 ~ 1.26 (1.49) (1.65)
PERFORMANCE:						
Swing speed		RPM	11.7	11.7	11.7	10.5
Max travel speed		Hi km/h (MPH)	5.5 (3.4)	5.5 (3.4)	5.5 (3.4)	5.5 (3.4)
		Mi	4.1 (2.5)	4.1 (2.5)	4.2 (2.6)	4.1 (2.5)
		Lo	3.0 (1.9)	3.0 (1.9)	3.1 (1.9)	3.0 (1.9)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model		KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	
No. of cylinders-bore × stroke		mm (in)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)
Piston displacement		ltr. (cu.in)	6.69 (408)	6.69 (408)	6.69 (408)	6.69 (408)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow		ltr. (U.S. Gal)/min.	439 (116)	439 (116)	439 (116)	450 (119)
Max. oil pressure (Implement)		kg/cm ² (PSI)	380 (5400)	380 (5400)	380 (5400)	380 (5400)
Track shoe width/ground pressure		mm (in)/kg/cm ² (PSI)	700 (28)/0.44 (6.26)	600 (24)/0.52 (7.39)	600 (24)/0.51 (7.25)	600 (24)/0.56 (7.96)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	400 (105.7)	400 (105.7)	400 (105.7)	400 (105.7)
Hydraulic oil tank			135 (35.7)	135 (35.7)	135 (35.7)	132 (34.9)
MACHINE SPEC:						
Boom		mm (ft.in)	5850 (19.2)	5850 (19.2)	5850 (19'2")	5850 (19' 2")
Arm		mm (ft.in)	3045 (10'0")	3045 (10'0")	3045 (10'0")	3045 (10'0")
Bucket (SAE)		m ³ (cu.yd)	1.41 (1.84)	1.41 (1.84)	1.0 (1.31)	1.26 (1.65)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

** Basic spec.

*4 For UK, with two piece boom

• EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Model		PC270-7	*PC270LC-8	*PC270LC-8	*PC290LC-8
Source		China	Japan	USA	UK
OPERATING WEIGHT*		27350 (60,300)	28640 (63,140)	30118 (66,400)	29900 (65,920)
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	149 (200)/2050 140 (187)/2050	149 (200)/2050 140 (187)/2050	149 (200)/2050 140 (187)/2050
BUCKET CAPACITY RANGE (SAE)		1.3 (1.7)	1.14 ~ 1.26 (1.49) (1.65)	0.58 ~ 1.63 (0.76) (2.13)	0.85 ~ 2.02 (1.11) (2.64)
PERFORMANCE:					
Swing speed		RPM	10.5	10.5	10.5
Max travel speed		Hi Mi Lo	5.5 (3.4) 4.1 (2.6) 3.0 (1.9)	5.5 (3.4) 4.1 (2.5) 3.0 (1.9)	5.5 (3.4) 4.1 (2.5) 3.0 (1.9)
DIMENSIONS: See the page of dimensions.					
ENGINE:					
Model		KOMATSU SAA6D102E-2	KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1
No. of cylinders- bore × stroke		mm (in) 6-102 × 120 (4.02 × 4.72)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)
Piston displacement		ltr. (cu.in) 5.88 (359)	6.69 (408)	6.69 (408)	6.69 (408)
HYDRAULIC SYSTEM:					
Hydraulic pump		2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow		ltr. (U.S. Gal)/min. 450 (119)	450 (119)	450 (119)	450 (119)
Max. oil pressure (Implement)		kg/cm ² (PSI) 380 (5400)	380 (5400)	380 (5400)	380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI) 600 (24)/ 0.56 (8.0)	700 (28)/ 0.47 (6.68)	800 (31.5)/ 0.43 (6.05)	700 (28)/ 0.49 (6.97)
CAPACITY (Refilled):					
Fuel tank		ltr. (U.S.Gal) 400 (106)	400 (105.7)	400 (105.7)	400 (105.7)
Hydraulic oil tank		143 (37.8)	132 (34.9)	132 (34.9)	132 (34.9)
MACHINE SPEC:					
Boom		mm (ft.in) 5850 (19'2")	5850 (19' 2")	5850 (19' 2")	5850 (19.2)
Arm		mm (ft.in) 3045 (10'0")	3045 (10'0")	3045 (10' 0")	2500 (8'2")
Bucket (SAE)		m ³ (cu.yd) 1.3 (1.7)	1.26 (1.65)	1.41 (1.85)	1.74 (2.26)

Model		*PC290NLC-8	*PC300-8	*PC300-8	PC300-7**
Source		UK	Japan	Indonesia	Japan
OPERATING WEIGHT*		29400 (64,820)	31100 (68,560)	31100 (68,560)	30800 (67,900)
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	149 (200)/2050 140 (187)/2050	194 (260)/1950 184 (246)/1950	194 (260)/1950 184 (246)/1950
BUCKET CAPACITY RANGE (SAE)		0.85 ~ 2.02 (1.11) (2.64)	0.52 ~ 1.80 (0.68) (2.35)	0.52 ~ 2.30 (0.68) (3.01)	0.52 ~ 1.80 (0.68) (1.83)
PERFORMANCE:					
Swing speed		RPM	10.5	9.5	9.5
Max travel speed		Hi Mi Lo	5.5 (3.4) 4.1 (2.5) 3.0 (1.9)	5.5 (3.4) 4.5 (2.8) 3.2 (2.0)	5.5 (3.4) 4.5 (2.8) 3.2 (2.0)
DIMENSIONS: See the page of dimensions.					
ENGINE:					
Model		KOMATSU SAA6D107E-1	KOMATSU SAA6D114E-3	KOMATSU SAA6D114E-3	KOMATSU SAA6D114E-2
No. of cylinders- bore × stroke		mm (in) 6-107 × 124 (4.21 × 4.88)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)
Piston displacement		ltr. (cu.in) 6.69 (408)	8.27 (505)	8.27 (505)	8.27 (505)
HYDRAULIC SYSTEM:					
Hydraulic pump		2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow		ltr. (U.S. Gal)/min. 450 (119)	535 (141)	535 (141)	535 (141)
Max. oil pressure (Implement)		kg/cm ² (PSI) 380 (5400)	380 (5400)	380 (5400)	380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI) 600 (24)/ 0.56 (7.96)	600 (24)/ 0.64 (9.1)	600 (24)/ 0.64 (9.1)	600 (24)/ 0.64 (9.1)
CAPACITY (Refilled):					
Fuel tank		ltr. (U.S.Gal) 400 (105.7)	605 (160)	605 (160)	605 (160)
Hydraulic oil tank		132 (34.9)	188 (49.7)	188 (49.7)	188 (49.7)
MACHINE SPEC:					
Boom		mm (ft.in) 5850 (19.2)	6470 (21' 3")	6470 (21' 3")	6470 (21'3")
Arm		mm (ft.in) 2500 (8'2")	3185 (10' 5")	3185 (10' 5")	3185 (10'5")
Bucket (SAE)		m ³ (cu.yd) 1.74 (2.26)	1.4 (1.83)	1.4 (1.83)	1.40 (1.83)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

*** For USA

- EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Item		Model	PC300-7	PC300-8 (SE spec.)	*PC300HD-8	*PC300LC-8
Source			China	Indonesia	USA	Japan
OPERATING WEIGHT*		kg (lb)	31200 (68,780)	33080 (72,930)	39437 (86,944)	32200 (70,990)
HORSEPOWER		SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	194 (260)/1950 184 (246)/1950	194 (260)/1950 184 (246)/1950	194 (260)/1950 184 (246)/1950
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	1.40 ~ 1.60 (1.83) (2.09)	0.52 ~ 2.3 (0.68) (3.01)	0.68 ~ 1.96 (0.89) (2.56)	0.52 ~ 1.80 (0.68) (2.35)
PERFORMANCE:						
Swing speed		RPM	9.5	9.5	9.5	9.5
Max travel speed		Hi Mi Lo	5.5 (3.4) 4.5 (2.8) 3.2 (2.0)	5.5 (3.4) 4.5 (2.8) 3.2 (2.0)	5.5 (3.4) 4.4 (2.7) 3.0 (1.9)	5.5 (3.4) 4.5 (2.8) 3.2 (2.0)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model			KOMATSU SAA6D114E-2	KOMATSU SAA6D114E-3	KOMATSU SAA6D114E-3	KOMATSU SAA6D114E-3
No. of cylinders- bore × stroke		mm (in)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)
Piston displacement		ltr. (cu.in)	8.27 (505)	8.27 (505)	8.27 (505)	8.27 (505)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow		ltr. (U.S. Gal)/min.	535 (141)	535 (141)	535 (141)	535 (141)
Max. oil pressure (Implement)		kg/cm ² (PSI)	380 (5400)	380 (5400)	380 (5400)	380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	600 (24)/ 0.65 (9.2)	600 (24)/ 0.68 (9.70)	800 (31.5)/ 0.51 (7.27)	700 (28)/ 0.53 (7.48)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	605 (160)	605 (160)	605 (160)	605 (160)
Hydraulic oil tank			188 (49.7)	188 (49.7)	188 (49.7)	188 (49.7)
MACHINE SPEC:						
Boom		mm (ft.in)	6470 (21'3")	6470 (21'3")	6500 (21' 3")	6470 (21' 3")
Arm		mm (ft.in)	3185 (10'5")	3185 (10'5")	3185 (10' 5")	3185 (10' 5")
Bucket (SAE)		m ³ (cu.yd)	1.40 (1.83)	1.4 (1.83)	1.96 (2.56)	1.4 (1.83)

Item		Model	*PC300LC-8	*PC300LC-8	*PC300LC-8 (SE spec.)	PC300LC-7**
Source			USA	Indonesia	Indonesia	Japan
OPERATING WEIGHT*		kg (lb)	35371 (77,980)	32200 (70,990)	34020 (75,000)	31900 (70,330)
HORSEPOWER		SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	194 (260)/1950 184 (246)/1950	194 (260)/1950 184 (246)/1950	194 (260)/1950 184 (246)/1950
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.68 ~ 1.96 (0.89) (2.56)	0.52 ~ 2.30 (0.68) (3.01)	0.52 ~ 2.30 (0.68) (3.01)	0.52 ~ 1.80 (0.68) (1.83)
PERFORMANCE:						
Swing speed		RPM	9.5	9.5	9.5	9.5
Max travel speed		Hi Mi Lo	5.5 (3.4) 4.5 (2.8) 3.2 (2.0)	5.5 (3.4) 4.5 (2.8) 3.2 (2.0)	5.5 (3.4) 4.5 (2.8) 3.2 (2.0)	5.5 (3.4) 4.5 (2.8) 3.2 (2.0)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model			KOMATSU SAA6D114E-3	KOMATSU SAA6D114E-3	KOMATSU SAA6D114E-3	KOMATSU SAA6D114E-2
No. of cylinders- bore × stroke		mm (in)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)
Piston displacement		ltr. (cu.in)	8.27 (505)	8.27 (505)	8.27 (505)	8.27 (505)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow		ltr. (U.S. Gal)/min.	535 (141)	535 (141)	535 (141)	535 (141)
Max. oil pressure (Implement)		kg/cm ² (PSI)	380 (5400)	380 (5400)	380 (5400)	380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	800 (31.5)/ 0.51 (7.30)	700 (28)/ 0.53 (7.48)	700 (28)/ 0.56 (7.9)	700 (28)/ 0.52 (7.36)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	605 (160)	605 (160)	605 (160)	605 (160)
Hydraulic oil tank			188 (49.7)	188 (49.7)	188 (49.7)	188 (49.7)
MACHINE SPEC:						
Boom		mm (ft.in)	6500 (21' 3")	6470 (21' 3")	6470 (21' 3")	6470 (21'3")
Arm		mm (ft.in)	3185 (10' 5")	3185 (10' 5")	3185 (10' 5")	3185 (10'5")
Bucket (SAE)		m ³ (cu.yd)	1.96 (2.56)	1.4 (1.83)	1.4 (1.83)	1.40 (1.83)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

** Basic spec.

• EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Model		PC308USLC-3E0	•PC350LC-8	•PC350NLC-8	•PC350-8	
Source		Japan	UK	UK	Japan	
OPERATING WEIGHT*		kg (lb)	32630 (71,938)	34800 (76,720)	34310 (75,640)	32600 (71,870)
HORSEPOWER		SAE J1995 Gross kW (HP)/RPM	149 (200)/2050	194 (260)/1950	194 (260)/1950	194 (260)/1950
ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM	140 (187)/2050	184 (247)/1950	184 (246)/1950	184 (246)/1950
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	0.58 ~ 1.63 (0.76) (2.13)	0.85 ~ 2.66 (1.11) (3.48)	0.85 ~ 2.66 (1.11) (3.48)	1.40 (1.83)
PERFORMANCE:						
Swing speed		RPM	9.5	9.5	9.5	9.5
Max travel speed		Hi km/h (MPH)	4.6 (2.85)	5.5 (3.4)	5.5 (3.4)	5.5 (3.4)
		Mi	3.4 (2.1)	4.5 (2.8)	4.5 (2.8)	4.5 (2.8)
		Lo	2.9 (1.8)	3.2 (2.0)	3.2 (2.0)	3.2 (2.0)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model		KOMATSU SAA6D107E-1	KOMATSU SAA6D114E-3	KOMATSU SAA6D114E-3	KOMATSU SAA6D114E-3	
No. of cylinders-bore × stroke		mm (in)	6-107 × 124 (4.21 × 4.88)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)
Piston displacement		ltr. (cu.in)	5.88 (359)	8.27 (505)	8.27 (505)	8.27 (505)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	
Max. oil flow		ltr. (U.S. Gal)/min.	450 (119)	536 (142)	536 (142)	535 (141)
Max. oil pressure (Implement)		kg/cm ² (PSI)	380 (5400)	380 (5400)	380 (5400)	380 (5400)
Track shoe width/ground pressure		mm (in)/kg/cm ² (PSI)	850 (33.5)/0.44 (6.3)	700 (28)/0.57 (8.1)	600 (24)/0.65 (9.24)	600 (24)/0.67 (9.52)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	390 (103)	605 (160)	605 (160)	605 (160)
Hydraulic oil tank			210 (55.5)	188 (49.7)	188 (49.7)	188 (49.7)
MACHINE SPEC:						
Boom		mm (ft.in)	5842 (19'2")	6470 (21' 3")	6470 (21' 3")	6470 (21'3")
Arm		mm (ft.in)	3045 (10'0")	2600 (8'6")	2600 (8'6")	3185 (10'5")
Bucket (SAE)		m ³ (cu.yd)	1.21 (1.59)	1.38 (1.81)	1.38 (1.81)	1.4 (1.83)

Model		PC350-7	•PC350LC-8	PC350LC-7	PC360-7	
Source		Japan	Japan	Japan	China	
OPERATING WEIGHT*		kg (lb)	32300 (71,210)	33660 (74,210)	33400 (73,630)	33000 (72,750)
HORSEPOWER		SAE J1995 Gross kW (HP)/RPM	180 (242)/1900	194 (260)/1950	180 (242)/1900	180 (242)/1900
ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM		184 (246)/1950		
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	1.40 (1.83)	1.40 (1.83)	1.40 (1.83)	1.60 (2.09)
PERFORMANCE:						
Swing speed		RPM	9.5	9.5	9.5	9.5
Max travel speed		Hi km/h (MPH)	5.5 (3.4)	5.5 (3.4)	5.5 (3.4)	5.5 (3.4)
		Mi	4.5 (2.8)	4.5 (2.8)	4.5 (2.8)	4.5 (2.8)
		Lo	3.2 (2.0)	3.2 (2.0)	3.2 (2.0)	3.2 (2.0)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model		KOMATSU SAA6D114E-2	KOMATSU SAA6D114E-3	KOMATSU SAA6D114E-2	KOMATSU SAA6D114E-2	
No. of cylinders-bore × stroke		mm (in)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)	6-114 × 135 (4.49 × 5.31)	
Piston displacement		ltr. (cu.in)	8.27 (505)	8.27 (505)	8.27 (505)	
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	
Max. oil flow		ltr. (U.S. Gal)/min.	535 (141)	535 (141)	535 (141)	
Max. oil pressure (Implement)		kg/cm ² (PSI)	380 (5400)	380 (5400)	380 (5400)	
Track shoe width/ground pressure		mm (in)/kg/cm ² (PSI)	600 (24)/0.67 (9.5)	600 (24)/0.64 (9.12)	600 (24)/0.67 (9.52)	600 (24)/0.69 (9.8)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	605 (160)	605 (160)	605 (160)	605 (160)
Hydraulic oil tank			188 (49.7)	188 (49.7)	188 (49.7)	
MACHINE SPEC:						
Boom		mm (ft.in)	6470 (21'3")	6470 (21'3")	6470 (21'3")	6470 (21'3")
Arm		mm (ft.in)	3185 (10'3")	3185 (10'5")	3185 (10'3")	3185 (10'3")
Bucket (SAE)		m ³ (cu.yd)	1.40 (1.83)	1.4 (1.83)	1.40 (1.83)	1.60 (2.09)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

** Basic spec.

• EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Item		Model	*PC400-8	PC400-8R	PC400-7**	PC400-7
Source			Japan	Japan	Japan	China
OPERATING WEIGHT*		kg (lb)	41740 (92,020)	41740 (92,020)	41400 (91,270)	42400 (93,480)
HORSEPOWER		SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM 270 (362)/1900 257 (345)/1900	kW (HP)/RPM 270 (362)/1900 257 (345)/1900	kW (HP)/RPM 246 (330)/1850	kW (HP)/RPM 246 (330)/1850
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	1.3 ~ 2.2 (1.70) (2.88)	1.3 ~ 2.2 (1.70) (2.88)	1.3 ~ 2.2 (1.7) (2.9)	1.9 ~ 2.06 (1.7) (2.9)
PERFORMANCE:						
Swing speed		RPM	9.1	9.1	9.0	9.0
Max travel speed		Hi Mi Lo km/h (MPH)	5.5 (3.4) 4.0 (2.5) 3.0 (1.9)	5.5 (3.4) 4.0 (2.5) 3.0 (1.9)	5.5 (3.4) 4.4 (2.7) 3.0 (1.9)	5.5 (3.4) 4.4 (2.7) 3.0 (1.9)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model			KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-3	KOMATSU SAA6D125E-3
No. of cylinders- bore × stroke		mm (in)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.90)	6-125 × 150 (4.92 × 5.90)
Piston displacement		ltr. (cu.in)	11.04 (674)	11.04 (674)	11.04 (674)	11.04 (674)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow		ltr. (U.S. Gal)/min.	690 (182)	690 (182)	690 (182)	690 (182)
Max. oil pressure (Implement)		kg/cm ² (PSI)	380 (5400)	380 (5400)	380 (5400)	380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	600 (24)/ 0.79 (11.2)	600 (24)/ 0.79 (11.2)	600 (24)/ 0.79 (11.2)	600 (24)/ 0.81 (11.5)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	650 (172)	650 (172)	650 (172)	650 (172)
Hydraulic oil tank			248 (65.5)	248 (65.5)	248 (65.5)	248 (65.5)
MACHINE SPEC:						
Boom		mm (ft.in)	7060 (23'2")	7060 (23'2")	7060 (23'2")	7060 (23'2")
Arm		mm (ft.in)	3380 (11'1")	3380 (11'1")	3380 (11'1")	3380 (11'1")
Bucket (SAE)		m ³ (cu.yd)	1.9 (2.49)	1.9 (2.49)	1.90 (2.49)	1.90 (2.49)

Item		Model	*PC400LC-8	PC400LC-8R	*PC400LC-8	PC400LC-7**
Source			Japan	Japan	USA	Japan
OPERATING WEIGHT*		kg (lb)	42740 (94,220)	42740 (94,220)	44708 (98,564)	42850 (94,470)
HORSEPOWER		SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM 270 (362)/1900 257 (345)/1900	kW (HP)/RPM 270 (362)/1900 257 (345)/1900	kW (HP)/RPM 270 (362)/1900 257 (345)/1900	kW (HP)/RPM 246 (330)/1850
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	1.3 ~ 2.2 (1.70) (2.88)	1.3 ~ 2.2 (1.70) (2.88)	1.12 ~ 2.87 (1.47) (3.75)	1.3 ~ 2.2 (1.7) (2.9)
PERFORMANCE:						
Swing speed		RPM	9.1	9.1	9.0	9.0
Max travel speed		Hi Mi Lo km/h (MPH)	5.5 (3.4) 4.0 (2.5) 3.0 (1.9)	5.5 (3.4) 4.0 (2.5) 3.0 (1.9)	5.5 (3.4) 4.4 (2.7) 3.0 (1.9)	5.5 (3.4) 4.4 (2.7) 3.0 (1.9)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model			KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-3
No. of cylinders- bore × stroke		mm (in)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.90)
Piston displacement		ltr. (cu.in)	11.04 (674)	11.04 (674)	11.04 (674)	11.04 (674)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow		ltr. (U.S. Gal)/min.	690 (182)	690 (182)	690 (182)	690 (182)
Max. oil pressure (Implement)		kg/cm ² (PSI)	380 (5400)	380 (5400)	380 (5400)	380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	700 (28)/ 0.65 (9.24)	700 (28)/ 0.65 (9.24)	700 (28)/ 0.68 (9.72)	700 (28)/ 0.66 (9.4)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	650 (172)	650 (172)	650 (172)	650 (172)
Hydraulic oil tank			248 (65.5)	248 (65.5)	248 (65.5)	248 (65.5)
MACHINE SPEC:						
Boom		mm (ft.in)	7060 (23'2")	7060 (23'2")	7060 (23'2")	7060 (23'2")
Arm		mm (ft.in)	3380 (11'1")	3380 (11'1")	3380 (11'1")	3380 (11'1")
Bucket (SAE)		m ³ (cu.yd)	1.9 (2.49)	1.9 (2.49)	1.94 (2.54)	1.90 (2.49)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

** Basic spec.

• EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Item		Model	PC400LC-7 (SE spec.)	*PC450-8	*PC450-8	PC450-8R
Source			Indonesia	Japan	UK	Japan
OPERATING WEIGHT*		kg (lb)	44190 (97,420)	43320 (95,500)	44350 (97,770)	43320 (95,500)
HORSEPOWER		SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	270 (362)/1900 257 (345)/1900	270 (362)/1900 257 (345)/1900	270 (362)/1900 257 (345)/1900
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	2.8 ~ 3.2 (3.66) (4.20)	1.90 ~ 2.10 (2.49) (2.75)	1.34 ~ 2.76 (1.75) (3.61)	1.90 ~ 2.10 (2.49) (2.75)
PERFORMANCE:						
Swing speed		RPM	9.3	9.1	9.0	9.1
Max travel speed		Hi Mi Lo km/h (MPH)	5.5 (3.4) 3.2 (2.0)	5.5 (3.4) 4.0 (2.5) 3.0 (1.9)	5.5 (3.4) 4.4 (2.7) 3.0 (1.9)	5.5 (3.4) 4.0 (2.5) 3.0 (1.9)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model			KOMATSU SAA6D125E-3	KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-5
No. of cylinders- bore × stroke		mm (in)	6-125 × 150 (4.92 × 5.90)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)
Piston displacement		ltr. (cu.in)	11.04 (673)	11.04 (674)	11.04 (674)	11.04 (674)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	1 × Variable Piston	2 × Variable Piston	1 × Variable Piston
Max. oil flow		ltr. (U.S. Gal)/min.	652 (172)	690 (182)	690 (182)	690 (182)
Max. oil pressure (Implement)		kg/cm ² (PSI)	355 (5050)	380 (5400)	380 (5400)	380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	800 (32)/ 0.59 (8.4)	600 (24)/ 0.82 (11.7)	600 (24)/ 0.84 (11.9)	600 (24)/ 0.82 (11.7)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	605 (160)	650 (172)	650 (172)	650 (172)
Hydraulic oil tank			270 (71.3)	248 (65.5)	248 (65.5)	248 (65.5)
MACHINE SPEC:						
Boom		mm (ft.in)	7060 (23'2")	7060 (23'2")	7060 (23'2")	7060 (23'2")
Arm		mm (ft.in)	2400 (7'10")	3380 (11'1")	2900 (9'6")	3380 (11'1")
Bucket (SAE)		m ³ (cu.yd)	3.2 (4.20)	1.9 (2.49)	1.90 (2.49)	1.9 (2.49)

Item		Model	PC450-7	PC450-7	*PC450LC-8	PC450LC-8R
Source			Japan	China	Japan	Japan
OPERATING WEIGHT*		kg (lb)	43000 (94,800)	45500 (100,310)	44320 (97,710)	44320 (97,710)
HORSEPOWER		SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	246 (330)/1850	270 (362)/1900 257 (345)/1900	270 (362)/1900 257 (345)/1900
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	1.90 ~ 2.10 (2.49) (2.75)	2.1 (2.75)	1.90 ~ 2.10 (2.49) (2.75)	1.90 ~ 2.10 (2.49) (2.75)
PERFORMANCE:						
Swing speed		RPM	9.0	9.0	9.1	9.1
Max travel speed		Hi Mi Lo km/h (MPH)	5.5 (3.4) 4.4 (2.7) 3.0 (1.9)	5.5 (3.4) 4.4 (2.7) 3.0 (1.9)	5.5 (3.4) 4.0 (2.5) 3.0 (1.9)	5.5 (3.4) 4.0 (2.5) 3.0 (1.9)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model			KOMATSU SAA6D125E-3	KOMATSU SAA6D125E-3	KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-5
No. of cylinders- bore × stroke		mm (in)	6-125 × 150 (4.92 × 5.90)	6-125 × 150 (4.92 × 5.90)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)
Piston displacement		ltr. (cu.in)	11.04 (673)	11.04 (673)	11.04 (674)	11.04 (674)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow		ltr. (U.S. Gal)/min.	690 (182)	690 (182)	690 (182)	690 (182)
Max. oil pressure (Implement)		kg/cm ² (PSI)	380 (5400)	380 (5400)	380 (5400)	380 (5400)
Track shoe width/ ground pressure		mm (in)/ kg/cm ² (PSI)	600 (24)/ 0.83 (11.8)	600 (24)/ 0.87 (12.4)	600 (24)/ 0.78 (11.1)	600 (24)/ 0.78 (11.1)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	650 (172)	650 (172)	650 (172)	650 (172)
Hydraulic oil tank			248 (65.5)	248 (65.5)	248 (65.5)	248 (65.5)
MACHINE SPEC:						
Boom		mm (ft.in)	7060 (23'2")	7060 (23'2")	7060 (23'2")	7060 (23'2")
Arm		mm (ft.in)	3380 (11'1")	3380 (11'1")	3380 (11'1")	3380 (11'1")
Bucket (SAE)		m ³ (cu.yd)	1.90 (2.49)	2.1 (2.75)	1.9 (2.49)	1.9 (2.49)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

** Basic spec.

• EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Item		Model	*PC450LC-8	*PC450LC-8 HD	PC450LC-7	*PC600-8
Source			UK	UK	Japan	Japan
OPERATING WEIGHT*		kg (lb)	45000 (99,210)	46500 (102,510)	44000 (97,000)	57300 (126,320)
HORSEPOWER	SAE J1995 Gross	kW (HP)/RPM	270 (362)/1900	270 (362)/1900		323 (433)/1800
	ISO9249 /SAE J1349 Net	kW (HP)/RPM	257 (345)/1900	257 (345)/1900	246 (330)/1850	320 (429)/1800
	Hyd. fan at max. speed Net	kW (HP)/RPM				288 (386)/1800
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	1.34 ~ 2.76 (1.75) (3.61)	2.20 ~ 3.50 (2.87) (4.69)	1.90 ~ 2.10 (2.49) (2.75)	2.0 ~ 3.5 (2.62) (4.58)
PERFORMANCE:						
Swing speed		RPM	9.0	9.0	9.0	8.3
Max travel speed	Hi Mi Lo	km/h (MPH)	5.5 (3.4)	5.5 (3.4)	5.5 (3.4)	4.9 (3.0)
			4.4 (2.7)	4.4 (2.7)	4.4 (2.7)	
			3.0 (1.9)	3.0 (1.9)	3.0 (1.9)	3.0 (1.9)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model			KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-3	KOMATSU SAA6D140E-5
No. of cylinders-bore × stroke	mm (in)		6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.90)	6-140 × 165 (5.51 × 6.50)
Piston displacement	ltr. (cu.in)		11.04 (674)	11.04 (674)	11.04 (673)	15.24 (930)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow	ltr. (U.S. Gal)/min.		690 (182)	690 (182)	690 (182)	820 (217)
Max. oil pressure (Implement)	kg/cm ² (PSI)		380 (5400)	380 (5400)	380 (5400)	325 (4620)
Track shoe width/ground pressure	mm (in)/kg/cm ² (PSI)		600 (24)/0.86 (12.2)	600 (24)/0.82 (11.7)	600 (24)/0.79 (11.2)	600 (24)/1.04 (14.8)
CAPACITY (Refilled):						
Fuel tank	ltr. (U.S.Gal)		650 (172)	650 (172)	650 (172)	880 (232)
Hydraulic oil tank			248 (65.5)	248 (65.5)	248 (65.5)	360 (95.0)
MACHINE SPEC:						
Boom	mm (ft.in)		7060 (23'2")	6670 (21'11")	7060 (23'2")	7660 (25'2")
Arm	mm (ft.in)		2900 (9'6")	2400 (7'10")	3380 (11'1")	3500 (11'6")
Bucket (SAE)	m ³ (cu.yd)		1.90 (2.49)	1.90 (2.49)	1.90 (2.49)	2.7 (3.53)

Item		Model	PC600-8R	*PC600-8	PC600-7	*PC600LC-8
Source			Japan	UK	Japan	Japan
OPERATING WEIGHT*		kg (lb)	57300 (126,320)	57640 (127,070)	56600 (124,780)	58300 (128,530)
HORSEPOWER	SAE J1995 Gross	kW (HP)/RPM	323 (433)/1800	323 (433)/1800		323 (433)/1800
	ISO9249 /SAE J1349 Net	kW (HP)/RPM	320 (429)/1800	320 (429)/1800	287 (385)/180	320 (429)/1800
	Hyd. fan at max. speed Net	kW (HP)/RPM	288 (386)/1800	288 (386)/1800		288 (386)/1800
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	2.0 ~ 3.5 (2.62) (4.58)	2.4 ~ 3.5 (3.14) (4.58)	2.0 ~ 3.5 (2.62) (4.58)	2.0 ~ 3.5 (2.62) (4.58)
PERFORMANCE:						
Swing speed		RPM	8.3	8.3	8.3	8.3
Max travel speed	Hi Mi Lo	km/h (MPH)	4.9 (3.0)	4.9 (3.0)	4.9 (3.0)	4.9 (3.0)
			3.0 (1.9)	3.0 (1.9)	3.0 (1.9)	3.0 (1.9)
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model			KOMATSU SAA6D140E-5	KOMATSU SAA6D140E-5	KOMATSU SA6D140E-3	KOMATSU SAA6D140E-5
No. of cylinders-bore × stroke	mm (in)		6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)
Piston displacement	ltr. (cu.in)		15.24 (930)	15.24 (930)	15.24 (930)	15.24 (930)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow	ltr. (U.S. Gal)/min.		820 (217)	820 (217)	820 (217)	820 (217)
Max. oil pressure (Implement)	kg/cm ² (PSI)		325 (4620)	325 (4620)	325 (4620)	325 (4620)
Track shoe width/ground pressure	mm (in)/kg/cm ² (PSI)		600 (24)/1.04 (14.8)	600 (24)/1.03 (14.6)	600 (24)/1.02 (14.5)	600 (24)/0.98 (13.9)
CAPACITY (Refilled):						
Fuel tank	ltr. (U.S.Gal)		880 (232)	880 (232)	880 (232)	880 (232)
Hydraulic oil tank			360 (95.0)	360 (95)	360 (95)	360 (95)
MACHINE SPEC:						
Boom	mm (ft.in)		7660 (25'2")	6600 (21'8")	7660 (25'2")	7660 (25'2")
Arm	mm (ft.in)		3500 (11'6")	2900 (9'6")	3500 (11'6")	3500 (11'6")
Bucket (SAE)	m ³ (cu.yd)		2.7 (3.53)	3.5 (4.58)	2.7 (3.53)	2.7 (3.53)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

- EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Item		Model	PC600LC-8R	•PC600LC-8	PC600LC-7	•PC800-8
Source			Japan	UK	Japan	Japan
OPERATING WEIGHT*		kg (lb)	58300 (128,530)	58640 (129,280)	57600 (126,990)	74200 (163,580)
HORSEPOWER	SAE J1995 Gross	kW (HP)/RPM	323 (433)/1800	323 (433)/1800		370 (496)/1800
	ISO9249 /SAE J1349 Net	kW (HP)/RPM	320 (429)/1800	320 (429)/1800	287 (385)/1800	363 (487)/1800
	Hyd. fan at max. speed Net	kW (HP)/RPM	288 (386)/1800	288 (386)/1800		338 (454)/1800
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	2.0 ~ 3.5 (2.62) (4.58)	2.4 ~ 3.5 (3.14) (4.58)	2.0 ~ 3.5 (2.62) (4.58)	2.8 ~ 3.4 (3.66) (4.45)
PERFORMANCE:						
Swing speed		RPM	8.3	8.3	8.3	6.8
Max travel speed	Hi Mi Lo	km/h (MPH)	4.9 (3.0)	4.9 (3.0)	4.9 (3.0)	4.2 (2.6)
			3.0 (1.9)	3.0 (1.9)	3.0 (1.9)	2.8 (1.7)
DIMENSIONS: See the page of dimensions.						
ENGINE:			KOMATSU	KOMATSU	KOMATSU	KOMATSU
Model			SAA6D140E-5	SAA6D140E-5	SA6D140E-3	SAA6D140E-5
No. of cylinders- bore × stroke	mm (in)		6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)
Piston displacement	ltr. (cu.in)		15.24 (930)	15.24 (930)	15.24 (930)	15.24 (930)
HYDRAULIC SYSTEM:			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Hydraulic pump	ltr. (U.S. Gal)/min. kg/cm ² (PSI)		820 (217)	820 (217)	820 (217)	988 (261)
Max. oil flow			325 (4620)	325 (4620)	325 (4620)	320 (4550)
Max. oil pressure (Implement)						
Track shoe width/ ground pressure	mm (in)/ kg/cm ² (PSI)		600 (24)/ 0.98 (13.9)	600 (24)/ 0.98 (13.9)	600 (24)/ 0.97 (13.8)	610 (24)/ 1.23 (17.5)
CAPACITY (Refilled):						
Fuel tank	ltr. (U.S.Gal)		880 (232)	880 (232)	880 (232)	980 (259)
Hydraulic oil tank			360 (95)	360 (95)	360 (95)	440 (116)
MACHINE SPEC:						
Boom	mm (ft.in)		7660 (25'2")	6600 (21'8")	7660 (25'2")	8200 (26' 11")
Arm	mm (ft.in)		3500 (11'6")	2900 (9'6")	3500 (11'6")	3600 (11' 10")
Bucket (SAE)	m ³ (cu.yd)		2.7 (3.53)	3.5 (4.58)	2.7 (3.53)	3.1 (4.05)

Item		Model	PC800-8R	•PC800-8	PC750-7	•PC800LC-8
Source			Japan	UK	Japan	UK
OPERATING WEIGHT*		kg (lb)	74200 (163,580)	79400 (175,050)	72370 (159,550)	82300 (181,440)
HORSEPOWER	SAE J1995 Gross	kW (HP)/RPM	370 (496)/1800	370 (496)/1800		370 (496)/1800
	ISO9249 /SAE J1349 Net	kW (HP)/RPM	363 (487)/1800	363 (487)/1800	338 (454)/1800	363 (487)/1800
	Hyd. fan at max. speed Net	kW (HP)/RPM	338 (454)/1800	338 (454)/1800		338 (454)/1800
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	2.8 ~ 3.4 (3.66) (4.45)	3.6 ~ 6.0 (4.71) (7.85)	2.8 ~ 3.4 (3.66) (4.45)	3.6 ~ 6.0 (4.71) (7.85)
PERFORMANCE:						
Swing speed		RPM	6.8	6.8	6.8	6.8
Max travel speed	Hi Mi Lo	km/h (MPH)	4.2 (2.6)	4.2 (2.6)	4.2 (2.6)	4.2 (2.6)
			2.8 (1.7)	2.8 (1.7)	2.8 (1.7)	2.8 (1.7)
DIMENSIONS: See the page of dimensions.						
ENGINE:			KOMATSU	KOMATSU	KOMATSU	KOMATSU
Model			SAA6D140E-5	SAA6D140E-5	SAA6D140E-3	SAA6D140E-5
No. of cylinders- bore × stroke	mm (in)		6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)
Piston displacement	ltr. (cu.in)		15.24 (930)	15.24 (930)	15.24 (930)	15.24 (930)
HYDRAULIC SYSTEM:			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Hydraulic pump	ltr. (U.S. Gal)/min. kg/cm ² (PSI)		988 (261)	988 (261)	988 (261)	988 (261)
Max. oil flow			320 (4550)	320 (4550)	325 (4550)	320 (4550)
Max. oil pressure (Implement)						
Track shoe width/ ground pressure	mm (in)/ kg/cm ² (PSI)		610 (24)/ 1.23 (17.5)	610 (24)/ 1.31 (18.6)	610 (24)/ 1.20 (17.1)	810 (32)/ 0.92 (13.1)
CAPACITY (Refilled):						
Fuel tank	ltr. (U.S.Gal)		980 (259)	980 (259)	880 (232)	980 (259)
Hydraulic oil tank			440 (116)	440 (116)	440 (116)	440 (116)
MACHINE SPEC:						
Boom	mm (ft.in)		8200 (26' 11")	8200 (26' 11")	8200 (26'11")	8200 (26' 11")
Arm	mm (ft.in)		3600 (11' 10")	3600 (11' 10")	3600 (11'10")	3600 (11' 10")
Bucket (SAE)	m ³ (cu.yd)		3.1 (4.05)	3.6 (4.71)	3.10 (4.05)	4.0 (5.23)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

- EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Item		Model	•PC800LC-8**	•PC800-8 (SE spec.)	PC800-8R (SE spec.)	PC750-7 (SE spec.)
Source			Japan	Japan	Japan	Japan
OPERATING WEIGHT*		kg (lb)	81600 (179,900)	75200 (165,790)	75200 (165,790)	73170 (161,310)
HORSEPOWER	SAE J1995 Gross	kW (HP)/RPM	370 (496)/1800	370 (496)/1800	370 (496)/1800	
	ISO9249 /SAE J1349 Net	kW (HP)/RPM	363 (487)/1800	363 (487)/1800	363 (487)/1800	338 (454)/1800
	Hyd. fan at max. speed Net	kW (HP)/RPM	338 (454)/1800	338 (454)/1800	338 (454)/1800	
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	1.70 ~ 4.53 (2.23) (5.93)	4.0 ~ 4.5 (5.23) (5.89)	4.0 ~ 4.5 (5.23) (5.89)	4.0 ~ 4.5 (5.23) (5.89)
PERFORMANCE:						
Swing speed		RPM	6.8	6.8	6.8	6.8
Max travel speed	Hi Mi Lo	km/h (MPH)	4.2 (2.6)	4.2 (2.6)	4.2 (2.6)	4.2 (2.6)
			2.8 (1.7)	2.8 (1.7)	2.8 (1.7)	2.8 (1.7)
DIMENSIONS: See the page of dimensions.						
ENGINE:			KOMATSU	KOMATSU	KOMATSU	KOMATSU
Model			SAA6D140E-5	SAA6D140E-5	SAA6D140E-5	SAA6D140E-3
No. of cylinders- bore × stroke	mm (in)		6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)
Piston displacement	ltr. (cu.in)		15.24 (930)	15.24 (930)	15.24 (930)	15.24 (930)
HYDRAULIC SYSTEM:			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Hydraulic pump	ltr. (U.S. Gal)/min. kg/cm ² (PSI)		988 (261)	988 (261)	988 (261)	988 (261)
Max. oil flow			320 (4550)	320 (4550)	320 (4550)	320 (4550)
Max. oil pressure (Implement)						
Track shoe width/ ground pressure	mm (in)/ kg/cm ² (PSI)		810 (32)/ 0.92 (13.1)	610 (24)/ 1.24 (17.6)	610 (24)/ 1.24 (17.6)	610 (24)/ 1.22 (17.3)
CAPACITY (Refilled):						
Fuel tank	ltr. (U.S.Gal)		980 (259)	980 (259)	980 (259)	880 (232)
Hydraulic oil tank			440 (116)	440 (116)	440 (116)	440 (116)
MACHINE SPEC:						
Boom	mm (ft.in)		8200 (26' 11")	7100 (23' 4")	7100 (23' 4")	7100 (23'4")
Arm	mm (ft.in)		3600 (11' 10")	2945 (9' 8")	2945 (9' 8")	2945 (9'8")
Bucket (SAE)	m ³ (cu.yd)		3.1 (4.05)	4.0 (5.23)	4.0 (5.23)	4.0 (5.23)

Item		Model	•PC850-8	PC850-8R	PC800-7	•PC850-8 (SE spec.)
Source			Japan	Japan	Japan	Japan
OPERATING WEIGHT*		kg (lb)	78700 (173,500)	78700 (173,500)	76070 (167,700)	78300 (172,620)
HORSEPOWER	SAE J1995 Gross	kW (HP)/RPM	370 (496)/1800	370 (496)/1800		370 (496)/1800
	ISO9249 /SAE J1349 Net	kW (HP)/RPM	363 (487)/1800	363 (487)/1800	338 (454)/1800	363 (487)/1800
	Hyd. fan at max. speed Net	kW (HP)/RPM	338 (454)/1800	338 (454)/1800		338 (454)/1800
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	3.4 (4.45)	3.4 (4.45)	3.4 (4.45)	4.0 ~ 4.5 (5.23) (5.87)
PERFORMANCE:						
Swing speed		RPM	6.8	6.8	6.8	6.8
Max travel speed	Hi Mi Lo	km/h (MPH)	4.2 (2.6)	4.2 (2.6)	4.2 (2.6)	4.2 (2.6)
			2.8 (1.7)	2.8 (1.7)	2.8 (1.7)	2.8 (1.7)
DIMENSIONS: See the page of dimensions.						
ENGINE:			KOMATSU	KOMATSU	KOMATSU	KOMATSU
Model			SAA6D140E-5	SAA6D140E-5	SAA6D140E-3	SAA6D140E-5
No. of cylinders- bore × stroke	mm (in)		6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)
Piston displacement	ltr. (cu.in)		15.24 (930)	15.24 (930)	15.24 (930)	15.24 (930)
HYDRAULIC SYSTEM:			1 × Variable Piston	1 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Hydraulic pump	ltr. (U.S. Gal)/min. kg/cm ² (PSI)		988 (261)	988 (261)	988 (261)	988 (261)
Max. oil flow			320 (4550)	320 (4550)	320 (4550)	320 (4550)
Max. oil pressure (Implement)						
Track shoe width/ ground pressure	mm (in)/ kg/cm ² (PSI)		610 (24)/ 1.31 (18.6)	610 (24)/ 1.31 (18.6)	610 (24)/ 1.27 (18.1)	610 (24)/ 1.30 (18.5)
CAPACITY (Refilled):						
Fuel tank	ltr. (U.S.Gal)		980 (259)	980 (259)	880 (232)	980 (259)
Hydraulic oil tank			440 (116)	440 (116)	440 (116)	440 (116)
MACHINE SPEC:						
Boom	mm (ft.in)		8040 (26' 5")	8040 (26' 5")	8040 (26'5")	7100 (23' 4")
Arm	mm (ft.in)		3600 (11' 10")	3600 (11' 10")	3600 (11'10")	2945 (9' 8")
Bucket (SAE)	m ³ (cu.yd)		3.4 (4.45)	3.4 (4.45)	3.4 (4.45)	4.3 (5.62)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

** For USA

• EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Item		Model	PC850-8R (SE spec.)	PC800-7 (SE spec.)	*PC1250-8	PC1250-8R
Source			Japan	Japan	Japan	Japan
OPERATING WEIGHT*		kg (lb)	78300 (172,620)	75570 (166,600)	106500 (234,790)	106500 (234,790)
HORSEPOWER	SAE J1995 Gross	kW (HP)/RPM	370 (496)/1800		514 (688)/1800	514 (688)/1800
	ISO9249 /SAE J1349 Net	kW (HP)/RPM	363 (487)/1800	338 (454)/1800	502 (672)/1800	502 (672)/1800
	Hyd. fan at max. speed Net	kW (HP)/RPM	338 (454)/1800		463 (620)/1800	463 (620)/1800
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	4.0 ~ 4.5 (5.23) (5.87)	4.0 ~ 4.5 (5.23) (5.89)	3.4 ~ 5.2 (4.4) (6.8)	3.4 ~ 5.2 (4.4) (6.8)
PERFORMANCE:						
Swing speed		RPM	6.8	6.8	5.5	5.5
Max travel speed	Hi Mi Lo	km/h (MPH)	4.2 (2.6)	4.2 (2.6)	3.2 (2.0)	3.2 (2.0)
			2.8 (1.7)	2.8 (1.7)	2.1 (1.3)	2.1 (1.3)
DIMENSIONS: See the page of dimensions.						
ENGINE:			KOMATSU	KOMATSU	KOMATSU	KOMATSU
Model			SAA6D140E-5	SAA6D140E-3	SAA6D170E-5	SAA6D170E-5
No. of cylinders-	mm (in)	bore × stroke	6-140 × 165	6-140 × 165	6-170 × 170	6-170 × 170
Piston displacement			litr. (cu.in)	(5.51 × 6.50)	(5.51 × 6.50)	(6.69 × 6.69)
			15.24 (930)	15.24 (930)	23.15 (1413)	23.15 (1413)
HYDRAULIC SYSTEM:			2 × Variable	2 × Variable	3 × Variable	3 × Variable
Hydraulic pump	litr. (U.S. Gal)/min. kg/cm ² (PSI)		Piston	Piston	Piston	Piston
Max. oil flow			988 (261)	988 (261)	1588 (420)	1588 (420)
Max. oil pressure (Implement)			320 (4550)	320 (4550)	320 (4550)	320 (4550)
Track shoe width/ ground pressure	mm (in)/ kg/cm ² (PSI)		610 (24)/ 1.30 (18.5)	610 (24)/ 1.25 (17.8)	700 (28)/ 1.39 (19.8)	700 (28)/ 1.39 (19.8)
CAPACITY (Refilled):						
Fuel tank	litr. (U.S.Gal)		980 (259)	880 (232)	1360 (359)	1360 (359)
Hydraulic oil tank			440 (116)	440 (116)	670 (177)	670 (177)
MACHINE SPEC:						
Boom	mm (ft.in) mm (ft.in) m ³ (cu.yd)		7100 (23' 4")	7100 (23'4")	9100 (29' 10")	9100 (29' 10")
Arm			2945 (9' 8")	2945 (9'8")	3400 (11' 2")	3400 (11' 2")
Bucket (SAE)			4.3 (5.62)	4.3 (5.62)	5.0 (6.5)	5.0 (6.5)

Item		Model	PC1250-7	*PC1250-8 (SP spec.)	PC1250-8R (SP spec.)	PC1250-7 (SP spec.)
Source			Japan	Japan	Japan	Japan
OPERATING WEIGHT*		kg (lb)	106700 (235,230)	110700 (244,050)	110700 (244,050)	109500 (241,400)
HORSEPOWER	SAE J1995 Gross	kW (HP)/RPM		514 (688)/1800	514 (688)/1800	
	ISO9249 /SAE J1349 Net	kW (HP)/RPM	485 (651)/1800	502 (672)/1800	502 (672)/1800	485 (651)/1800
	Hyd. fan at max. speed Net	kW (HP)/RPM		463 (620)/1800	463 (620)/1800	
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	3.4 ~ 5.2 (4.45) (6.80)	6.7 (8.8)	6.7 (8.8)	6.7 (8.76)
PERFORMANCE:						
Swing speed		RPM	5.5	5.5	5.5	5.5
Max travel speed	Hi Mi Lo	km/h (MPH)	3.2 (2.0)	3.2 (2.0)	3.2 (2.0)	3.2 (2.0)
			2.1 (1.3)	2.1 (1.3)	2.1 (1.3)	2.1 (1.3)
DIMENSIONS: See the page of dimensions.						
ENGINE:			KOMATSU	KOMATSU	KOMATSU	KOMATSU
Model			SAA6D170E-3	SAA6D170E-5	SAA6D170E	SAA6D170E-3
No. of cylinders-	mm (in)	bore × stroke	6-170 × 170	6-170 × 170	6-170 × 170	6-170 × 170
Piston displacement			litr. (cu.in)	(6.69 × 6.69)	(6.69 × 6.69)	(6.69 × 6.69)
			23.15 (1413)	23.15 (1413)	23.15 (1413)	23.15 (1413)
HYDRAULIC SYSTEM:			3 × Variable	3 × Variable	3 × Variable	3 × Variable
Hydraulic pump	litr. (U.S. Gal)/min. kg/cm ² (PSI)		Piston	Piston	Piston	Piston
Max. oil flow			1588 (420)	1588 (420)	1588 (420)	1588 (420)
Max. oil pressure (Implement)			320 (4550)	320 (4550)	320 (4550)	320 (4550)
Track shoe width/ ground pressure	mm (in)/ kg/cm ² (PSI)		700 (28)/ 1.38 (19.6)	700 (28)/ 1.44 (20.4)	700 (28)/ 1.44 (20.4)	700 (28)/ 1.43 (20.3)
CAPACITY (Refilled):						
Fuel tank	litr. (U.S.Gal)		1360 (359)	1360 (359)	1360 (359)	1360 (359)
Hydraulic oil tank			670 (177)	670 (177)	670 (177)	670 (177)
MACHINE SPEC:						
Boom	mm (ft.in) mm (ft.in) m ³ (cu.yd)		9100 (29'10")	7800 (25' 7")	7800 (25' 7")	7800 (25'7")
Arm			3400 (11'2")	3400 (11' 2")	3400 (11' 2")	3400 (11'2")
Bucket (SAE)			5.0 (6.54)	6.7 (8.8)	6.7 (8.8)	6.7 (8.76)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

- EPA Tier 3 and EU Stage 3A model

Specifications

EXCAVATORS (BACKHOE)

Model		•PC1250LC-8	PC2000-8	PC3000-6 Diesel Tier1	PC3000-6 Electric Drive	
Source		Japan	Japan	Germany	Germany	
OPERATING WEIGHT*		kg (lb)	113500 (250,150)	200000 (440,920)	256000 (564,300)	255000 (562,000)
HORSEPOWER SAE J1995 Gross		kW (HP)/RPM	514 (688)/1800	728 (976)/1800	940 (1260)/1800	900 (1206)
ISO9249 /SAE J1349 Net		kW (HP)/RPM	502 (672)/1800	713 (956)/1800	895 (1200)/1800	
Hyd. fan at max. speed Net		kW (HP)/RPM	463 (620)/1800	679 (910)/1800		
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	3.4 ~ 5.2 (5.23) (6.8)	12 ~ 13.7 (15.7) (17.9)	12 ~ 20 (15.7) (26.2)	12 ~ 20 (15.7) (26.2)
PERFORMANCE:						
Swing speed		RPM	5.5	4.8	4.6	4.6
Max travel speed		Hi km/h (MPH) Mi Lo	3.2 (2.0)	2.7 (1.7)	2.4 (1.5)	2.4 (1.5)
2.1 (1.3)						
DIMENSIONS: See the page of dimensions.						
ENGINE:						
Model		KOMATSU	KOMATSU	KOMATSU	Siemens (6.6 kV)	
No. of cylinders-		SAA6D170E-5	SAA12V140E-3	SSA12V159	1LA452	
bore × stroke		6-170 × 170	12-140 × 165	12-159 × 159		
Piston displacement		(6.69 × 6.69)	(5.51 × 6.50)	(6.26 × 6.26)		
		ltr. (cu.in)	23.15 (1413)	30.48 (1860)	37.5 (2288)	
HYDRAULIC SYSTEM:						
Hydraulic pump		3 × Variable	2 × Variable	3 × Variable	3 × Variable	
Max. oil flow		Piston	Piston	Piston	Piston	
Max. oil pressure (Implement)		ltr. (U.S. Gal)/min.	ltr. (U.S. Gal)/min.	ltr. (U.S. Gal)/min.	ltr. (U.S. Gal)/min.	
		kg/cm ² (PSI)	kg/cm ² (PSI)	kg/cm ² (PSI)	kg/cm ² (PSI)	
		1588 (420)	2317 (612)	2730 (721)	2730 (721)	
		320 (4550)	300 (4270)	310 (4410)	310 (4410)	
Track shoe width/		mm (in)/	mm (in)/	mm (in)/	mm (in)/	
ground pressure		kg/cm ² (PSI)	kg/cm ² (PSI)	kg/cm ² (PSI)	kg/cm ² (PSI)	
		1000 (39.4)/	810 (32)/	800 (31.4)/	800 (31.4)/	
		0.88 (12.5)	1.94 (27.6)	2.4 (34.1)	2.39 (33.0)	
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	ltr. (U.S.Gal)	ltr. (U.S.Gal)	—	
Hydraulic oil tank		1360 (359)	3400 (898)	4500 (1190)	2900 (765)	
MACHINE SPEC:						
Boom		mm (ft.in)	mm (ft.in)	mm (ft.in)	mm (ft.in)	
Arm		9100 (29'10")	8700 (28'7")	8600 (28'3")	8600 (28'3")	
Bucket (SAE)		mm (ft.in)	mm (ft.in)	mm (ft.in)	mm (ft.in)	
		3400 (11' 2")	3900 (12'10")	4000 (13'1")	4000 (13'1")	
		m ³ (cu.yd)	m ³ (cu.yd)	m ³ (cu.yd)	m ³ (cu.yd)	
		5.0 (6.5)	12 (15.7)	15 (19.5)	15 (19.5)	

Model		PC4000-6 Diesel Tier1	PC4000-6 Electric Drive	PC5500-6 Diesel Tier1	PC5500-6 Diesel Tier2	
Source		Germany	Germany	Germany	Germany	
OPERATING WEIGHT*		kg (lb)	398000 (877,200)	390000 (860,000)	540000 (1,190,200)	540000 (1,190,200)
HORSEPOWER SAE J1995 Gross		kW (HP)/RPM	1400 (1875)/1800	1350 (1809)	1880 (2520)/1800	1880 (2520)/1800
ISO9249 /SAE J1349 Net		kW (HP)/RPM	1324 (1775)/1800		1825 (2446)/1800	1825 (2446)/1800
Hyd. fan at max. speed Net		kW (HP)/RPM				
BUCKET CAPACITY RANGE (SAE)		m ³ (cu.yd)	16 ~ 28 (20.9) (36.6)	16 ~ 28 (20.9) (36.6)	21 ~ 36 (27.5) (47.1)	21 ~ 36 (27.5) (47.1)
PERFORMANCE:						
Swing speed		RPM	4.0	4.0	3.1	3.1
Max travel speed		Hi km/h (MPH) Mi Lo	2.1 (1.3)	2.1 (1.3)	2.1 (1.3)	2.1 (1.3)
DIMENSIONS: See the page of dimensions.						
ENGINE (Electric Motor):						
Model		KOMATSU	ABB (6.6 kV)	KOMATSU	KOMATSU	
No. of cylinders-		SDA16V160	AMA500L4A	SSA12V159 × 2	SDA12V159E × 2	
bore × stroke		16-159 × 190		12-159 × 159	12-159 × 159	
Piston displacement		(6.26 × 7.48)		(6.26 × 6.26)	(6.26 × 6.26)	
		ltr. (cu.in)	60.2 (3673)	37.5 (2288) × 2	37.5 (2288) × 2	
HYDRAULIC SYSTEM:						
Hydraulic pump		4 × Variable	4 × Variable	6 × Variable	6 × Variable	
Max. oil flow		Piston	Piston	Piston	Piston	
Max. oil pressure (Implement)		ltr. (U.S. Gal)/min.	ltr. (U.S. Gal)/min.	ltr. (U.S. Gal)/min.	ltr. (U.S. Gal)/min.	
		kg/cm ² (PSI)	kg/cm ² (PSI)	kg/cm ² (PSI)	kg/cm ² (PSI)	
		4140 (1094)	4140 (1094)	4200 (1110)	4200 (1100)	
		310 (4410)	310 (4410)	310 (4410)	310 (4410)	
Track shoe width/		mm (in)/	mm (in)/	mm (in)/	mm (in)/	
ground pressure		kg/cm ² (PSI)	kg/cm ² (PSI)	kg/cm ² (PSI)	kg/cm ² (PSI)	
		1200 (47)/	1200 (47)/	1350 (53)/	1350 (53)/	
		2.23 (31.7)	2.18 (31.0)	2.43 (34.6)	2.43 (34.6)	
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S.Gal)	—	10800 (2853)	10800 (2853)	
Hydraulic oil tank		6400 (1690)	3900 (1030)	3800 (1004)	3800 (1004)	
MACHINE SPEC:						
Boom		mm (ft.in)	mm (ft.in)	mm (ft.in)	mm (ft.in)	
Arm		9750 (32'0")	9750 (32'0")	11000 (36'1")	11000 (36'1")	
Bucket (SAE)		mm (ft.in)	mm (ft.in)	mm (ft.in)	mm (ft.in)	
		4500 (14'9")	4500 (14'9")	5100 (16'9")	5100 (16'9")	
		m ³ (cu.yd)	m ³ (cu.yd)	m ³ (cu.yd)	m ³ (cu.yd)	
		22 (28.8)	22 (28.8)	29 (37.9)	29 (37.9)	

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

- EPA Tier 3 and EU Stage 3A model

Specifications

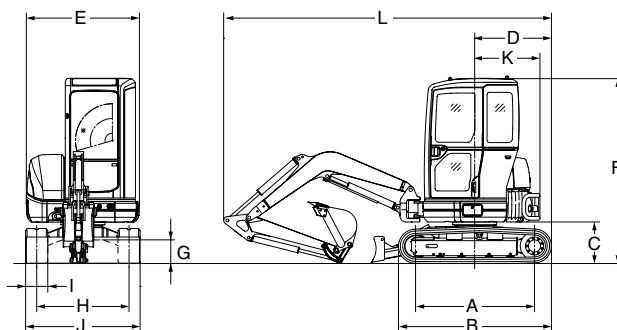
EXCAVATORS (BACKHOE)

Item	Model	PC5500-6 Electric Drive	PC8000-6 Diesel Tier1	PC8000-6 Electric Drive	
Source		Germany	Germany	Germany	
OPERATING WEIGHT*	kg (lb)	535000 (1,179,200)	744000 (1,163,800)	732000 (1,613,400)	
HORSEPOWER	SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	1800 (2412) 3000 (4021)/1800 2882 (3863)/1800	2900 (3886)	
BUCKET CAPACITY RANGE (SAE)	m ³ (cu.yd)	21 ~ 36 (27.5) (47.1)	28 ~ 48 (36.6) (62.8)	28 ~ 48 (36.6) (62.8)	
PERFORMANCE: Swing speed Max travel speed	Hi Mi Lo	RPM km/h (MPH)	3.1 2.1 (1.3)	2.7 2.4 (1.5)	2.7 2.4 (1.5)
DIMENSIONS: See the page of dimensions.					
ENGINE (Electric Motor): Model No. of cylinders- bore × stroke Piston displacement	mm (in) ltr. (cu.in)	ABB (6.6 kV) × 2 AHA450L4A	KOMATSU SDA16V160 × 2 16-159 × 190 (6.26 × 7.48) 60.2 (3673) × 2	ABB (6.6 kV) AHA500L4A	
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Max. oil pressure (Implement)	ltr. (U.S. Gal)/min. kg/cm ² (PSI)	6 × Variable Piston 4200 (1100) 310 (4410)	8 × Variable Piston 8280 (2188) 310 (4410)	8 × Variable Piston 8280 (2188) 310 (4410)	
Track shoe width/ ground pressure	mm (in)/ kg/cm ² (PSI)	1350 (53)/ 2.41 (34.3)	1500 (59)/ 2.75 (39.1)	1500 (59)/ 2.70 (38.5)	
CAPACITY (Refilled): Fuel tank Hydraulic oil tank	ltr. (U.S.Gal)	— 3800 (1004)	14000 (3672) 8350 (2206)	— 8350 (2206)	
MACHINE SPEC: Boom Arm Bucket (SAE)	mm (ft.in) mm (ft.in) m ³ (cu.yd)	11000 (36'1") 5100 (16'9") 29 (37.9)	11500 (37'9") 5500 (18'1") 38 (50)	11500 (37'9") 5500 (18'1") 38 (50)	

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg(180lb) and, indicated implement, shoes and upper attachment.

Dimensions

EXCAVATORS (BACKHOE)



FVBH0017

	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (in)	J mm (ft.in)	K mm (ft.in)	L mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)
PC01-1	650 (2'2")	915 (3')	290 (11")	650 (2'2")	570 (1'10")	—	100 (3.9")	450 (1'6")	130 (5")	580 (1'11")	—	2100 (6'11")	0.92 (3')	0.48 (1'7")
PC09-1	900 (2'11")	1225 (4')	350 (1'2")	790 (2'7")	700 (2'4")	2100 (6'11")	180 (7.1")	520 (1'8")	180 (7")	700 (2'4")	—	2730 (8'11")	1.357 (4'5")	0.684 (2'3")
PC14R-3	1015 (3'4")	1380 (4'6")	430 (1'5")	—	980 (3'3")	2320 (7'7")	205 (8.1")	770 (2'6")	230 (9")	1000 (3'3")	825 (2'8")	3380 (11'1")	0.92 (3')	0.88 (2'11")
												3400 (11'2")		1.13 (3'8")
PC16R-3	1015 (3'4")	1380 (4'6")	430 (1'5")	—	980 (3'3")	2320 (7'7")	205 (8.1")	770 (2'6")	230 (9")	1000 (3'3")	825 (2'8")	3525 (11'7")	0.965 (3'2")	0.965 (3'2")
												3540 (11'7")		1.215 (4'0")
PC18MR-3	1212 (4'0")	1555 (5'1")	430 (1'5")	750 (2'6")	980 (3'3")	2410 (7'11")	170 (6.7")	750/ (2'6")	230 (9")	990/ (3'3")	715 (2'4")	3650 (12'0")	1.76 (5'6")	0.965 (3'2")
								1045 (3'5")				1280 (4'2")		3665 (12'0")
PC20MR-3	1440 (4'9")	1880 (6'2")	530 (1'9")	920 (3'0")	1390 (4'7")	2520 (8'3")	285 (11.2")	1200 (3'11")	250 (10")	1450 (4'9")	805 (2'8")	3750 (12'4")	1.81 (5'11")	0.97 (3'2")
												3855 (12'8")		1.32 (4'4")
PC26MR-3*4	1485 (4'10")	1950 (6'5")	544 (1'9")	955 (3'2")	1390 (4'7")	2497 (8'2")	285 (11.2")	1200 (3'11")	300 (12")	1500 (4'11")	810 (2'8")	4045 (13'3")	2.2 (6'11")	1.115 (3'8")
												4060 (13'4")		1.375 (4'6")
PC27MR-3	1485 (4'10")	1950 (6'5")	545 (1'9")	955 (3'2")	1485 (4'10")	2520 (8'3")	320 (12.6")	1250 (4'1")	300 (12")	1550 (5'1")	855 (2'10")	4240 (13'11")	2.18 (7'2")	1.10 (3'7")
												4275 (14'0")		1.37 (4'6")
PC30MR-3*	1650 (5'5")	2105 (6'11")	545 (1'9")	1050 (3'5")	1485 (4'10")	2520 (8'3")	305 (12.0")	1250 (4'1")	300 (12")	1550 (5'1")	855 (2'10")	4560 (15'0")	2.285 (7'6")	1.24 (4'1")
												4600 (15'1")		1.61 (5'3")
PC35MR-3*	1650 (5'5")	2105 (6'11")	545 (1'9")	1050 (3'5")	1485 (4'10")	2520 (8'3")	290 (11.4")	1440 (4'9")	300 (12")	1740 (5'9")	950 (3'1")	4825 (15'10")	2.54 (8'4")	1.37 (4'5")
												4905 (16'1")		1.72 (5'8")
PC45MR-3*	2000 (6'7")	2520 (8'3")	608 (2'0")	1265 (4'2")	1835 (6'0")	2550 (8'4")	290 (11.4")	1560 (5'1")	400 (16")	1960 (6'5")	1060 (3'6")	5220 (17'2")	2.64 (8'8")	1.375 (4'6")
												5450 (17'11")		1.77 (5'10")
PC55MR-3*	2000 (6'7")	2520 (8'3")	608 (2'0")	1265 (4'2")	1835 (6'0")	2550 (8'4")	290 (11.4")	1560 (5'1")	400 (16")	1960 (6'5")	1060 (3'6")	5550 (18'3")	2.90 (9'6")	1.64 (5'5")
												5615 (18'5")		2.0 (6'7")

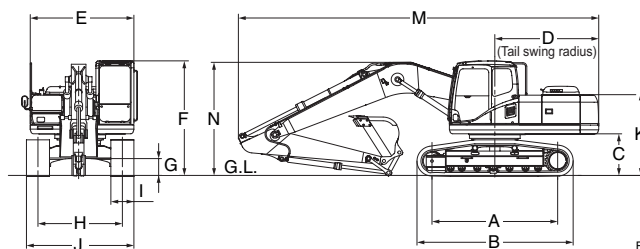
* With ROPS & top guard canopy

*4 Italy source

** With Cab

Dimensions

EXCAVATORS (BACKHOE)



FVBH0313

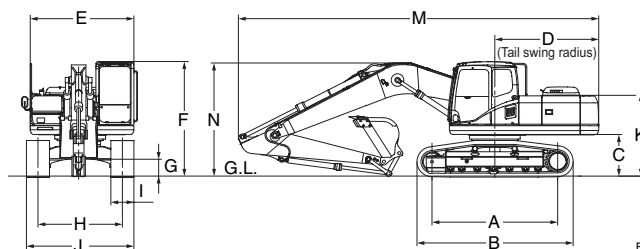
	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (in)	J mm (ft.in)	K mm (ft.in)	M mm (ft.in)	N mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)
PC78US-8	2235 (7'4")	2840 (9'4")	735 (2'5")	1240 (4'1")	2330 (7'8")	2730 (8'11")	360 (1'2")	1870 (6'2")	450 (18")	2320 (7'7")	1835 (6'0")	5770 (18'11")	2555 (8'5")	3.71 (12'2")	1.65 (5'5")
												6295 (20'8")	2870 (9'5")		2.25 (7'5")
PC80MR-3	2240 (7'4")	2878 (9'5")	755 (2'6")	1330 (4'4")	2200 (7'3")	2710 (8'11")		1800 (5'11")	450 (18")	2250 (7'5")		6060 (19'11")	2132 (10'3")		1.65 (5'5")
															2.0 (6'7")
PC88MR-8	2235 (7'4")	2840 (9'4")	755 (2'6")	1335 (4'5")	2330 (7'8")	2730 (8'11")	360 (1'2")	1870 (6'2")	450 (18")	2320 (7'7")	1855 (6'1")	6175 (20'3")	2240 (7'4")	3.40 (11'2")	1.65 (5'5")
												6350 (20'10")	2615 (8'7")		2.1 (6'11")
PC110R-1	2420 (7'11")		868 (2'10")	1577 (5'2")	2120 (6'11")	2790 (9'2")		1900 (6'3")	500 (20")	2400 (7'10")		6480 (21'3")	2715 (8'11")		1.85 (6'1")
															2.0 (6'7")
PC120-6	2750 (9')	3480 (11'5")	855 (2'10")	2130 (7'0")	2455 (8'1")	2715 (8'11")	400 (1'4")	1960 (6'5")	500 (20")	2460 (8'1")	1805 (5'11")	7590 (24'11")	2620 (8'7")	4.6 (15'1")	2.1 (6'11")
												7595 (24'11")	2715 (8'11")		2.5 (8'2")
PC130-8	2880 (9'5")	3610 (11'10")	895 (2'11")	2190 (7'2")	2500 (8'2")	2855 (9'4")	400 (1'4")	1990 (6'6")	500 (20")	2490 (8'2")	1925 (6'4")	7590 (24'11")	2875 (9'5")	4.6 (15'1")	2.5 (8'2")
												7485 (24'7")	3185 (10'5")		3.0 (9'10")
PC130-8**	2880 (9'5")	3610 (11'10")	895 (2'11")	2190 (7'2")	2500 (8'2")	2855 (9'4")	400 (1'4")	1990 (6'6")	500 (20")	2490 (8'2")	1925 (6'4")	7600 (24'11")	2600 (8'6")	4.6 (15'1")	2.1 (6'11")
												7590 (24'11")	2875 (9'5")		2.5 (8'2")
PC130-7***	2880 (9'5")	3610 (11'10")	855 (2'10")	2190 (7'2")	2490 (8'2")	2810 (9'3")	400 (1'4")	1990 (6'6")	500 (20")	2490 (8'2")	1885 (6'2")	7590 (24'11")	2715 (8'11")	4.6 (15'1")	2.5 (8'2")
												7510 (24'8")	3075 (10'1")		3.0 (9'10")
PC138US-8	2880 (9'5")	3610 (11'10")	900 (2'11")	1480 (4'10")	2490 (8'2")	2815 (9'3")	395 (1'4")	1990 (6'6")	500 (20")	2490 (8'2")	1980 (6'6")	7275 (23'10")	2690 (8'10")	4.6 (15'1")	2.1 (6'11")
												7260 (23'10")	2850 (9'4")		2.5 (8'2")
PC138USLC-8*	3140 (10'4")	3870 (12'8")	900 (2'11")	1545 (5'1")	2490 (8'2")	2815 (9'3")	395 (1'4")	1990 (6'6")	600 (24")	2590 (8'6")	1980 (6'6")		2690 (8'10")	4.6 (15'1")	2.1 (6'11")
												7385 (24'3")	2850 (9'4")		2.5 (8'2")
PC160LC-8	3170 (10'5")	3965 (13'0")	1055 (3'6")	2435 (8'0")	2490 (8'2")	3030** ⁴ (9'11")	440 (1'5")	1990 (6'6")	500 (20")	2490 (8'2")	2065 (6'9")	8565 (28'1")	3015** ⁴ (9'11")	5.15 (16'11")	2.25 (7'5")
						8565 (28'1")						3025** ⁴ (9'11")	2.61 (8'7")		
												8565 (28'1")	3125** ⁴ (10'3")		2.9 (9'6")

* For USA
*** China source

** UK source
** Including grouser height

Dimensions

EXCAVATORS (BACKHOE)



FVBH0313

	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (in)	J mm (ft.in)	K mm (ft.in)	M mm (ft.in)	N mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)
PC160LC-7E0 ** *5	3170 (10'5")	3965 (13'0")	1055 (3'6")	2435 (8'0")	2490 (8'2")	2970 (9'9")	440 (1'5")	1990 (6'6")	500 (20")	2490 (8'2")	2090*8 (6'10")	8565 (28'1")	2990 (9'10")	5.15 (16'11")	2.25 (7'5")
												8565 (28'1")	3100 (10'2")		2.61 (8'7")
												8565 (28'1")	3100 (10'2")		2.9 (9'6")
PC160LC-7E0 ** *6	3170 (10'5")	3965 (13'0")	1055 (3'6")	2435 (8'0")	2490 (8'2")	2970 (9'9")	440 (1'5")	1990 (6'6")	500 (20")	2490 (8'2")	2090*8 (6'10")	8490 (27'10")	2940 (9'8")	5.15 (16'11")	2.25 (7'5")
												8490 (27'10")	2980 (9'9")		2.61 (8'7")
												8475 (27'10")	3030 (9'11")		2.9 (9'6")
PC160LC-7*4	3170 (10'5")	3965 (13'0")	1055 (3'6")	2435 (8'0")	2490 (8'2")	2970 (9'9")	440 (1'5")	1990 (6'6")	500 (20")	2490 (8'2")	2090*8 (6'10")	8565 (28'1")	2990 (9'10")	5.15 (16'11")	2.25 (7'5")
												8565 (28'1")	3100 (10'2")		2.61 (8'7")
												8565 (28'1")	3100 (10'2")		2.9 (9'6")
PC180LC-7E0*5	3275 (10'9")	4065 (13'4")	1055 (3'6")	2435 (8'0")	2490 (8'2")	2970 (9'9")	440 (1'5")	2200 (7'3")	600 (24")	2800 (9'2")	2090*8 (6'10")	8565 (28'1")	2990 (9'10")	5.15 (16'11")	2.25 (7'5")
												8565 (28'1")	3100 (10'2")		2.61 (8'7")
												8565 (28'1")	3100 (10'2")		2.9 (9'6")
PC180NLC-7E0*5	3275 (10'9")	4065 (13'4")	1055 (3'6")	2435 (8'0")	2490 (8'2")	2970 (9'9")	440 (1'5")	2040 (6'8")	500 (20")	2540 (8'4")	2090*8 (6'10")	8565 (28'1")	2990 (9'10")	5.15 (16'11")	2.25 (7'5")
												8565 (28'1")	3100 (10'2")		2.61 (8'7")
												8565 (28'1")	3100 (10'2")		2.9 (9'6")
PC200-8 PC200-8*4 PC210-8*4	3275 (10'9")	4070 (13'4")	1085 (3'7")	2750 (9'0")	2710 (8'11")	3040 (10'0")	440 (1'5")	2200 (7'3")	600 (24")	2800 (9'2")	2095 (6'10")	9480 (31'1")	2985 (9'10")	5.7 (18'8")	1.84 (6'0")
												9495 (31'2")	3190 (10'6")		2.41 (7'11")
												9425 (30'11")	2970 (9'9")		2.925 (9'7")
PC200-8*	3275 (10'9")	4070 (13'4")	1085 (3'7")	2750 (9'0")	2710 (8'11")	3040 (10'0")	440 (1'5")	2200 (7'3")	800 (31.5")	3000 (9'10")	2095 (6'10")	9425 (30'11")	2985 (9'10")	5.7 (18'8")	2.41 (7'11")
												9425 (30'11")	2970 (9'9")		2.925 (9'7")
												9425 (30'11")	2970 (9'9")		2.925 (9'7")
PC200-7	3270 (10'9")	4080 (13'5")	1085 (3'7")	2750 (9'0")	2710 (8'11")	3000 (9'10")	440 (1'5")	2200 (7'3")	600 (24")	2800 (9'2")	2095 (6'10")	9480 (31")	2985 (9'10")	5.7 (18'8")	1.84 (6'0")
												9495 (32")	3190 (10'6")		2.41 (7'11")
												9425 (30'11")	2970 (9'9")		2.925 (9'7")
PC200-7*7	3270 (10'9")	4080 (13'5")	1085 (3'7")	2750 (9'0")	2710 (8'11")	3000 (9'10")	440 (1'5")	2200 (7'3")	800 (31.5")	3000 (9'10")	2095 (6'10")	9480 (31")	2985 (9'10")	5.7 (18'8")	1.84 (6'0")
												9495 (32")	3190 (10'6")		2.41 (7'11")
												9425 (30'11")	2970 (9'9")		2.925 (9'7")
PC200-7SEF	3270 (10'9")	4080 (13'5")	1085 (3'7")	2750 (9'0")	2710 (8'11")	3000 (9'10")	440 (1'5")	2200 (7'3")	800 (31.5")	3000 (9'10")	2095 (6'10")	9110 (29'10")	3280 (10'10")	5.2 (17'1")	1.9 (6'6")
												9480 (31'1")	2985 (9'10")		1.84 (6'0")
												9495 (31'2")	3190 (10'6")		2.41 (7'11")
PC200LC-8	3655 (12'0")	4450 (14'7")	1085 (3'7")	2750 (9'0")	2710 (8'11")	3040 (10'0")	440 (1'5")	2380 (7'10")	700 (28")	3080 (10'1")	2095 (6'10")	9480 (31'1")	2985 (9'10")	5.7 (18'8")	1.84 (6'0")
												9495 (31'2")	3190 (10'6")		2.41 (7'11")
												9425 (30'11")	2970 (9'9")		2.925 (9'7")
PC200LC-8*	3655 (12'0")	4450 (14'7")	1085 (3'7")	2750 (9'0")	2710 (8'11")	3040 (10'0")	440 (1'5")	2380 (7'10")	800 (31.5")	3180 (10'5")	2095 (6'10")	9425 (30'11")	2985 (9'10")	5.7 (18'8")	2.41 (7'11")
												9425 (30'11")	2970 (9'9")		2.925 (9'7")
												9425 (30'11")	2970 (9'9")		2.925 (9'7")

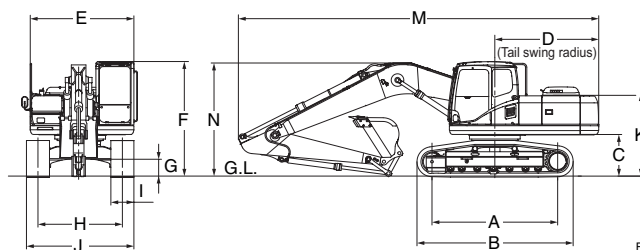
* Thailand source
** UK source
*** For USA

*4 China source
*5 Mono boom
*6 Two piece boom

*7 Indonesia source
*8 Including grouser height

Dimensions

EXCAVATORS (BACKHOE)



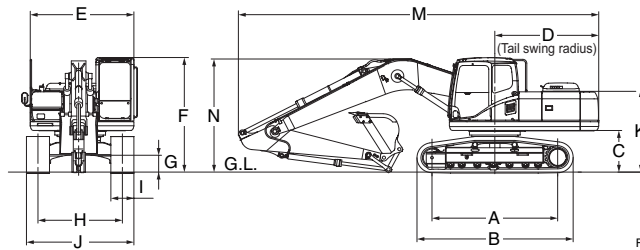
FVBH0313

	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (in)	J mm (ft.in)	K mm (ft.in)	M mm (ft.in)	N mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)
PC200LC-8*** PC210LC-8***	3655 (12'0")	4450 (14'7")	1085 (3'7")	2750 (9'0")	2710 (8'11")	3040 (10'0")	440 (1'5")	2380 (7'10")	600 (24")	3080 (10'1")	2095 (6'10")	9480 (31'1")	2985 (9'10")	5.7 (18'8")	1.84 (6'0")
												9495 (31'2")	3190 (10'6")		2.41 (7'11")
												9425 (30'11")	2970 (9'9")		2.925 (9'7")
PC200LC-7	3640 (1'11")	4450 (14'7")	1085 (3'7")	2750 (9'0")	2710 (8'11")	3000 (9'10")	440 (1'5")	2380 (7'10")	700 (28")	3080 (10'1")	2095 (6'10")	9480 (31'1")	2985 (9'10")	5.7 (18'8")	1.84 (6'0")
												9495 (31'2")	3190 (10'6")		2.41 (7'11")
												9425 (30'11")	2970 (9'9")		2.925 (9'7")
PC210-8**	3275 (10'9")	4080 (13'5")	1100 (3'7")	2800 (9'2")	2500 (8'2")	3035 (9'11")	440 (1'5")	2200 (7'3")	600 (24")	2800 (9'2")	2110 (6'11")	9540 (31'4")	2985 (9'10")	5.7 (18'8")	1.84 (6'0")
												9555 (31'4")	3190 (10'6")		2.41 (7'11")
												9485 (31'1")	2970 (9'9")		2.925 (9'7")
PC210LC-8**	3655 (12'0")	4450 (14'7")	1100 (3'7")	2800 (9'2")	2500 (8'2")	3035 (9'11")	440 (1'5")	2380 (7'10")	600 (24")	2980 (9'9")	2110 (6'11")	9540 (31'1")	2985 (9'10")	5.7 (18'8")	1.84 (6'0")
												9555 (31'4")	3190 (10'6")		2.41 (7'11")
												9485 (31'1")	2970 (9'9")		2.925 (9'7")
PC210NLC-8	3655 (12'0")	4450 (14'7")	1100 (3'7")	2800 (9'2")	2500 (8'2")	3035 (9'11")	440 (1'5")	2040 (6'8")	500 (20")	2540 (8'4")	2110 (6'11")	9540 (31'1")	2985 (9'10")	5.7 (18'8")	1.84 (6'0")
												9555 (31'4")	3190 (10'6")		2.41 (7'11")
												9485 (31'1")	2970 (9'9")		2.925 (9'7")
PC220-8 PC220-8***	3460 (11'4")	4260 (14'0")	1100 (3'7")	2940 (9'8")	2710 (8'11")	3055 (10'0")	440 (1'5")	2380 (7'10")	600 (24")	2980 (9'9")	2110 (6'11")	9865 (32'4")	3220 (10'7")	5.8 (19'2")	2.00 (6'7")
												9960 (32'8")	3295 (10'10")		2.50 (8'2")
												9885 (32'5")	3185 (10'5")		3.05 (10'0")
PC220-7	3460 (11'4")	4265 (14'0")	1100 (3'7")	2940 (9'8")	2710 (8'11")	3015 (9'11")	440 (1'5")	2380 (7'10")	600 (24")	2980 (9'9")	2110 (6'11")	9865 (32'4")	3220 (10'7")	5.85 (19'2")	2.0 (6'7")
												9960 (32'8")	3295 (10'10")		2.5 (8'2")
												9885 (32'5")	3160 (10'4")		3.045 (10'0")
PC220LC-8	3845 (12'7")	4640 (15'3")	1100 (3'7")	2940 (9'8")	2710 (8'11")	3055 (10'0")	440 (1'5")	2580 (8'6")	700 (28")	3280 (10'9")	2110 (6'11")	9865 (32'4")	3220 (10'7")	5.8 (19'2")	2.00 (6'7")
												9960 (32'8")	3295 (10'10")		2.50 (8'2")
												9885 (32'5")	3185 (10'5")		3.05 (10'0")
PC220LC-8*	3845 (12'7")	4640 (15'3")	1100 (3'7")	2940 (9'8")	2710 (8'11")	3055 (10'0")	440 (1'5")	2580 (8'6")	800 (31.5")	3380 (11'1")	2110 (6'11")	9885 (32'5")	3185 (10'5")	5.8 (19'2")	3.05 (10'0")
												9910 (32'6")	3270 (10'9")		3.05 (11'6")
PC220LC-7	3845 (12'7")	4640 (15'3")	1100 (3'7")	2940 (9'8")	2710 (8'11")	3015 (9'11")	440 (1'5")	2580 (8'6")	700 (28")	3280 (10'9")	2110 (6'11")	9865 (32'4")	3220 (10'7")	5.85 (19'2")	2.0 (6'7")
												9960 (32'8")	3295 (10'10")		2.5 (8'2")
												9885 (32'4")	3160 (10'4")		3.045 (10'0")

* USA source
 ** UK source
 *** China source

Dimensions

EXCAVATORS (BACKHOE)



FVBH0313

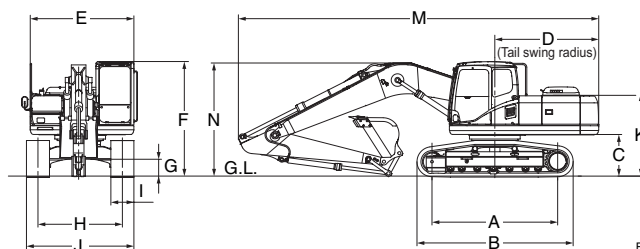
	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (in)	J mm (ft.in)	K mm (ft.in)	M mm (ft.in)	N mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)
PC228US-3E0	3275 (10'9")	4070 (13'4")	1060 (3'6")	1680 (5'6")	2980 (9'9")	3010 (9'11")	440 (1'5")	2200 (7'3")	600 (24")	2800 (9'2")	2285 (7'6")	8700 (28'7")	2980 (9'9")	5.7 (18'8")	2.9 (9'6")
PC228USLC-3E0	3640 (11'11")	4450 (14'7")	1060 (3'6")	1680 (5'6")	2980 (9'9")	3010 (9'11")	440 (1'5")	2380 (7'10")	700 (28")	3080 (10'1")	2285 (7'6")	8890 (29'2")	2980 (9'9")	5.7 (18'8")	2.9 (9'6")
PC228USLC-3E0***	3640 (11'11")	4450 (14'7")	1060 (3'6")	1680 (5'6")	2980 (9'9")	3010 (9'11")	440 (1'5")	2380 (7'10")	700 (28")	3080 (10'1")	2285 (7'6")	9285 (30'6")			2.9 (9'6")
PC230NHD-8	3460 (11'4")	4305 (14'1")	1125 (3'8")	2800 (9'2")	2500 (8'2")	3060 (10'0")	465 (1'6")	1990 (6'6")	550 (22")	2540 (8'4")	2135 (7'0")	9540 (31'4")	2985 (9'10")	5.7 (18'8")	1.8 (5'11")
												9555 (31'4")	3190 (10'6")		2.4 (7'10")
												9485 (31'1")	2970 (9'9")		2.9 (9'6")
PC240LC-8**	3845 (12'7")	4640 (15'3")	1100 (3'7")	2940 (9'8")	2710 (8'11")	3055 (10'0")	440 (1'5")	2580 (8'6")	700 (28")	3280 (10'9")	2110 (6'11")	9865 (32'4")	3220 (10'7")	5.8 (19'2")	2.00 (6'7")
												9960 (32'8")	3295 (10'10")		2.5 (8'2")
												9885 (32'5")	3160 (10'4")		3.05 (10'0")
												9910 (32'6")	3270 (10'9")		3.5 (11'6")
												9885 (32'5")	3160 (10'4")		3.05 (10'0")
PC240LC-8*4	3845 (12'7")	4640 (15'3")	1100 (3'7")	2940 (9'8")	2710 (8'11")	3055 (10'0")	440 (1'5")	2580 (8'6")	600 (24")	3180 (10'5")	2110 (6'11")	9885 (32'5")	3185 (10'5")	5.8 (19'2")	3.05 (10'0")
PC240NLC-8	3845 (12'7")	4640 (15'3")	1100 (3'7")	2940 (9'8")	2710 (8'11")	3055 (10'0")	440 (1'5")	2380 (7'10")	600 (24")	2980 (9'9")	2110 (6'11")	9865 (32'4")	3220 (10'7")	5.8 (19'2")	2.00 (6'7")
												9960 (32'8")	3295 (10'10")		2.5 (8'2")
												9885 (32'5")	3160 (10'4")		3.05 (10'0")
												9910 (32'6")	3270 (10'9")		3.5 (11'6")
												9885 (32'5")	3160 (10'4")		3.05 (10'0")
PC270-8	3700 (12'2")	4625 (15'2")	1215 (4'0")	2940 (9'8")	2710 (8'11")	3175 (10'5")	498 (1'8")	2590 (8'6")	600 (24")	3190 (10'6")	2225 (7'4")	9940 (32'7")	3310 (10'10")	5.9 (19'2")	2.50 (8'2")
												9860 (32'4")	3200 (10'6")		3.05 (10'0")
												9890 (32'5")	3280 (10'9")		3.5 (11'6")
PC270-7*4	3700 (12'2")	4625 (15'2")	1186 (3'11")	2940 (9'8")	2710 (8'11")	3100 (10'2")	498 (1'8")	2590 (8'6")	600 (24")	3190 (10'6")	2200 (7'3")	9790 (32'1")	3210 (10'6")	5.85 (19'2")	3.05 (10'0")
PC270LC-8	4030 (13'3")	4955 (16'2")	1215 (4'0")	2940 (9'8")	2710 (8'11")	3180 (10'5")	498 (1'8")	2590 (8'6")	700 (28")	3290 (10'10")	2225 (7'4")	9940 (32'7")	3310 (10'10")	5.9 (19'2")	2.50 (8'2")
												9860 (32'4")	3205 (10'6")		3.05 (10'0")
												9890 (32'5")	3280 (10'9")		3.5 (11'6")
												9860 (32'4")	3205 (10'6")		3.05 (10'0")
PC270LC-8*	4030 (13'3")	4955 (16'3")	1215 (4'0")	2940 (9'8")	2710 (8'11")	3175 (10'5")	498 (1'8")	2590 (8'6")	800 (31.5")	3390 (11'2")	2225 (7'4")	9860 (32'4")	3210 (10'6")	5.8 (19'2")	3.05 (10'0")
												9890 (32'5")	3280 (10'9")		3.5 (11'6")
												9890 (32'5")	3200 (10'6")		2.00 (6'7")
PC290LC-8	4030 (13'3")	4955 (16'3")	1215 (4'0")	2940 (9'8")	2710 (8'11")	3180 (10'5")	498 (1'8")	2590 (8'6")	700 (28")	3290 (10'10")	2225 (7'4")	9890 (32'5")	3200 (10'6")	5.8 (19'2")	2.00 (6'7")
												10010 (32'10")	3320 (10'11")		2.5 (8'2")
												9860 (32'4")	3210 (10'6")		3.05 (10'0")
												9960 (32'8")	3280 (10'9")		3.5 (11'6")
PC290NLC-8	4030 (13'3")	4955 (16'3")	1215 (4'0")	2940 (9'8")	2710 (8'11")	3180 (10'5")	498 (1'8")	2390 (7'10")	600 (24")	2990 (9'10")	2225 (7'4")	9890 (32'5")	3200 (10'6")	5.8 (19'2")	2.00 (6'7")
												10010 (32'10")	3320 (10'11")		2.5 (8'2")
												9860 (32'4")	3210 (10'6")		3.05 (10'0")
												9960 (32'8")	3280 (10'9")		3.5 (11'6")

* USA source
** UK source
*** For UK

** China source

Dimensions

EXCAVATORS (BACKHOE)



FVBH0313

	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (in)	J mm (ft.in)	K mm (ft.in)	M mm (ft.in)	N mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)
PC300-8	3700 (12'2")	4625 (15'2")	1185 (3'11")	3450 (11'4")	3090 (10'2")	3145 (10'4")	500 (1'8")	2590 (8'6")	600 (24")	3190 (10'6")	2585*6 (8'6")	11300 (37'1")	3480 (11'5")	6.47 (21'3")	2.22 (7'3")
												11180 (36'8")	3450 (11'4")		2.55 (8'4")
												11140 (36'7")	3285 (10'9")		3.185 (10'5")
												11170 (36'8")	3760 (12'4")		4.02 (13'2")
PC300-8*7 PC300-8*7 (SE spec.)	3700 (12'2")	4625 (15'2")	1185 (3'11")	3450 (11'4")	3090 (10'2")	3145 (10'4")	500 (1'8")	2590 (8'6")	600 (24")	3190 (10'6")	2585*6 (8'6")	11300 (37'1")	3480 (11'5")	6.47 (21'3")	2.22 (7'3")
												11180 (36'8")	3450 (11'4")		2.55 (8'4")
												11140 (36'7")	3285 (10'9")		3.185 (10'5")
												11170 (36'8")	3760 (12'4")		4.02 (13'2")
PC300-7	3700 (12'2")	4625 (15'2")	1185 (3'11")	3450 (11'4")	2995 (9'10")	3130 (10'3")	500 (1'8")	2590 (8'6")	600 (24")	3190 (10'6")	2580*6 (8'6")	11290 (37'1")	3400 (11'2")	6.47 (21'3")	2.22 (7'3")
												11180 (36'8")	3410 (11'2")		2.55 (8'4")
												11140 (36'7")	3285 (10'9")		3.185 (10'5")
												11170 (36'8")	3760 (12'4")		4.02 (13'2")
PC300-7*4 PC360-7*4	3700 (12'2")	4625 (15'2")	1185 (3'11")	3450 (11'4")	2995 (9'10")	3130 (10'3")	500 (1'8")	2590 (8'6")	600 (24")	3190 (10'6")	2580*6 (8'6")	11290 (37'1")	3400 (11'2")	6.47 (21'3")	2.2 (7'3")
												11180 (36'8")	3410 (11'2")		2.55 (8'4")
												11140 (36'7")	3285 (10'9")		3.185 (10'5")
												11170 (36'8")	3760 (12'4")		4.02 (13'2")
PC300HD-8	4350 (14'3")	5355 (17'7")	1320 (4'4")	3450 (11'4")	2995 (9'10")	3200 (10'6")	550 (1'10")	2740 (9'0")	800 (31.5")	3540 (11'7")	2688*6 (8'10")	11130 (36'6")	3244 (10'8")	6.47 (21'3")	2.54 (8'4")
												11170 (36'8")	3421 (11'3")		3.185 (10'5")
												11230 (36'10")	3690 (12'1")		4.02 (13'2")
												11300 (37'1")	3480 (11'5")		2.22 (7'3")
PC300LC-8	4030 (13'3")	4955 (16'3")	1185 (3'11")	3450 (11'4")	3090 (10'2")	3145 (10'4")	500 (1'8")	2590 (8'6")	700 (28")	3290 (10'10")	2585*6 (8'6")	11180 (36'8")	3450 (11'4")	6.47 (21'3")	2.55 (8'4")
												11140 (36'7")	3285 (10'9")		3.185 (10'5")
												11170 (36'8")	3760 (12'4")		4.02 (13'2")
												11300 (37'1")	3480 (11'5")		2.22 (7'3")
PC300LC-8*5	4030 (13'3")	4955 (16'3")	1185 (3'11")	3450 (11'4")	2995 (9'10")	3130 (10'3")	500 (1'8")	2590 (8'6")	800 (31.5")	3390 (11'2")	2580*6 (8'6")	11180 (36'8")	3410 (11'2")	6.47 (21'3")	2.54 (8'4")
												11140 (36'7")	3280 (10'9")		3.185 (10'5")
												11170 (36'8")	3760 (12'4")		4.02 (13'2")
												11300 (37'1")	3480 (11'5")		2.22 (7'3")
PC300LC-8*7 PC300LC-8*7 (SE spec.)	4030 (13'3")	4955 (16'3")	1185 (3'11")	3450 (11'4")	3090 (10'2")	3145 (10'4")	500 (1'8")	2590 (8'6")	700 (28")	3290 (10'10")	2585*6 (8'6")	11180 (36'8")	3450 (11'4")	6.47 (21'3")	2.55 (8'4")
												11140 (36'7")	3285 (10'9")		3.185 (10'5")
												11170 (36'8")	3760 (12'4")		4.02 (13'2")
												11300 (37'1")	3480 (11'5")		2.22 (7'3")

*4 China source

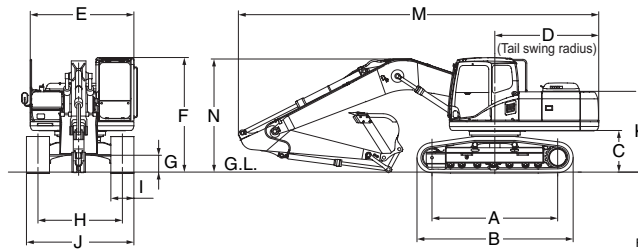
*5 USA source

*6 To top of engine cover

*7 Indonesia source

Dimensions

EXCAVATORS (BACKHOE)



FVBH0313

	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (in)	J mm (ft.in)	K mm (ft.in)	M mm (ft.in)	N mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)
PC300LC-7	4030 (13'3")	4955 (16'3")	1185 (3'11")	3450 (11'4")	2995 (9'10")	3130 (10'3")	500 (1'8")	2590 (8'6")	700 (28")	3290 (10'10")	2580*6 (8'6")	11290 (37'1")	3400 (11'2")	6.47 (21'3")	2.22 (7'3")
												11180 (36'8")	3410 (11'2")		2.55 (8'4")
												11140 (36'7")	3285 (10'9")		3.185 (10'5")
												11170 (36'8")	3760 (12'4")		4.02 (13'2")
PC308USLC-3E0	4030 (13'2")	4955 (16'3")	1185 (3'10")	1830 (6'0")	3080 (10'1")	3140 (10'4")	498 (1'8")	2740 (8'11")	850 (33.5")	3590 (11'9")	2545 (8'4")	9545 (31'4")	3210 (10'6")	5.85 (19'2")	3.045 (10'0")
												9570 (31'4")	3285 (10'9")		3.5 (11'6")
												9500 (31'2")	3800 (12'6")		4.2 (13'9")
PC350LC-8	4030 (13'3")	4955 (16'3")	1186 (3'11")	3450 (11'4")	2995 (9'10")	3100 (10'2")	498 (1'8")	2590 (8'6")	700 (28")	3290 (10'10")	2580*6 (8'6")	11290 (37'1")	3400 (11'2")	6.5 (21'3")	2.2 (7'3")
												11180 (36'8")	3410 (11'2")		2.6 (8'6")
												11140 (36'7")	3280 (10'9")		3.2 (10'6")
												11170 (36'8")	3760 (12'4")		4.0 (13'1")
PC350NLC-8*5	4030 (13'3")	4955 (16'3")	1186 (3'11")	3450 (11'4")	2995 (9'10")	3100 (10'2")	498 (1'8")	2390 (7'10")	600 (24")	2990 (9'10")	2580*6 (8'6")	11290 (37'1")	3400 (11'2")	6.5 (21'3")	2.22 (7'3")
												11180 (36'8")	3410 (11'2")		2.55 (8'4")
												11140 (36'7")	3280 (10'9")		3.185 (10'5")
												11170 (36'8")	3760 (12'4")		4.02 (13'2")
PC350-8	3700 (12'2")	4625 (15'2")	1185 (3'11")	3450 (11'4")	3165 (10'5")	3145 (10'4")	500 (1'8")	2590 (8'6")	600 (24")	3190 (10'6")	2585*6 (8'6")	11140 (36'7")	3285 (10'9")	6.5 (21'3")	3.185 (10'5")
PC350-7	3700 (12'2")	4625 (15'2")	1185 (3'11")	3450 (11'4")	3145 (10'4")	3130 (10'3")	500 (1'8")	2590 (8'6")	600 (24")	3190 (10'6")	2580*6 (8'6")	11140 (36'7")	3285 (10'9")	6.47 (21'3")	3.185 (10'5")
PC350LC-8	4030 (13'3")	4955 (16'3")	1185 (3'11")	3450 (11'4")	3165 (10'5")	3145 (10'4")	500 (1'8")	2590 (8'6")	600 (24")	3190 (10'6")	2585*6 (8'6")	11140 (36'7")	3285 (10'9")	6.5 (21'3")	3.185 (10'5")
PC350LC-7	4030 (13'3")	4955 (16'3")	1185 (3'11")	3450 (11'4")	3145 (10'4")	3130 (10'3")	500 (1'8")	2590 (8'6")	600 (24")	3190 (10'6")	2580*6 (8'6")	11140 (36'7")	3285 (10'9")	6.47 (21'3")	3.185 (10'5")
PC400-8 PC400-8R	4020 (13'2")	5055 (16'7")	1320 (4'4")	3645 (12'0")	3090 (10'2")	3285 (10'9")	555 (1'10")	2740 (9'0")	600 (24")	3340 (11'0")	2885*6 (9'6")	11905 (39'1")	3850 (12'8")	7.1 (23'2")	2.4 (7'10")
												11995 (39'4")	3745 (12'3")		2.9 (9'6")
												11940 (39'2")	3635 (11'11")		3.38 (11'1")
												11950 (39'2")	3885 (12'9")		4.0 (13'1")
PC400-7	4020 (13'2")	5055 (16'7")	1320 (4'4")	3645 (12'0")	2995 (9'10")	3265 (10'9")	555 (1'10")	2740 (9')	600 (24")	3340 (11')	2715*6 (8'11")	11905 (39'1")	3850 (12'8")	7.06 (23'2")	2.4 (7'10")
												11995 (39'4")	3745 (12'3")		2.9 (9'6")
												11940 (39'2")	3635 (12'0")		3.38 (11'1")
												11950 (39'2")	3885 (12'9")		4.0 (13'1")
PC400-7*4	4020 (13'2")	5055 (16'7")	1320 (4'4")	3645 (12'0")	2995 (9'10")	3265 (10'9")	567 (1'10")	2740 (9')	600 (24")	3340 (11')	2885*6 (9'6")	11940 (39'2")	3660 (11'11")	7.06 (23'2")	3.38 (11'1")

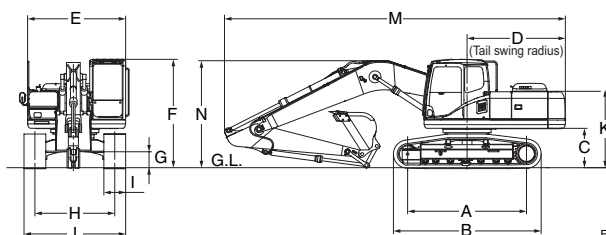
*4 China source

*5 Mono boom

*6 To top of engine cover

Dimensions

EXCAVATORS (BACKHOE)



FVBH0313

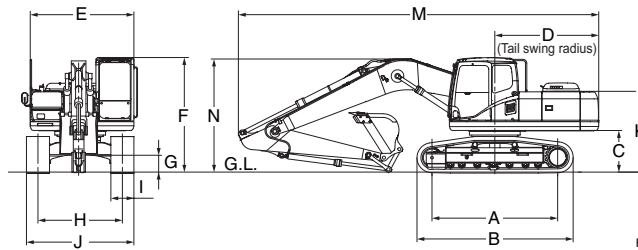
	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (in)	J mm (ft.in)	K mm (ft.in)	M mm (ft.in)	N mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)
PC400LC-8 PC400LC-8R	4350 (14'3")	5385 (17'8")	1320 (4'4")	3645 (12'0")	3090 (10'2")	3285 (10'9")	550 (1'10")	2740 (9'0")	700 (28")	3440 (11'3")	2920 ^{*5} (9'7")	11905 (39'1")	3850 (12'8")	7.1 (23'2")	2.4 (7'10")
												11995 (39'4")	3745 (12'3")		2.9 (9'6")
												11940 (39'2")	3635 (11'11")		3.38 (11'1")
												11950 (39'2")	3885 (12'9")		4.0 (13'1")
PC400LC-7	4350 (14'3")	5385 (17'8")	1320 (4'4")	3645 (12'0")	2995 (9'10")	3265 (10'9")	550 (1'10")	2740 (9')	700 (28")	3440 (11'3")	2715 ^{*5} (8'11")	11905 (39'1")	3850 (12'8")	7.06 (23'2")	2.4 (7'10")
												11995 (39'4")	3745 (12'3")		2.9 (9'6")
												11940 (39'2")	3635 (11'11")		3.38 (11'1")
												11950 (39'2")	3885 (12'9")		4.0 (13'1")
PC400LC-7 (SE spec.)	4350 (14'3")	5385 (17'8")	1320 (4'4")	3645 (12'0")	2995 (9'10")	3265 (10'9")	550 (1'10")	2740 (9')	800 (31.5")	3540 (11'7")	2715 ^{*5} (8'11")	11905 (39'1")	3850 (12'8")	7.06 (23'2")	2.4 (7'10")
PC450-8 PC450-8R	4020 (13'2")	5055 (16'7")	1320 (4'4")	3645 (12'0")	3165 (10'5")	3265 (10'9")	555 (1'10")	2740 (9'0")	600 (24")	3340 (11'0")	2920 ^{*5} (9'7")	12040 (39'6")	3660 (12'0")	7.1 (23'2")	3380 (11'1")
PC450-7	4020 (13'2")	5055 (16'7")	1320 (4'4")	3645 (12'0")	3145 (10'4")	3265 (10'9")	555 (1'10")	2740 (9')	600 (24")	3340 (11')	2715 ^{*5} (8'11")	12040 (39'6")	3660 (12'0")	7.06 (23'2")	3.38 (11'1")
PC450-7 ^{*4}	4020 (13'2")	5055 (16'7")	1320 (4'4")	3645 (12'0")	3145 (10'4")	3265 (10'9")	685 (2'3")	2390 ^{*6} (7'10") 2890 (9'6")	600 (24")	3145 ^{*6} (10'4") 3490 (11'5")	2885 ^{*5} (9'6")	12040 (39'6")	3660 (12'0")	7.06 (23'2")	3.38 (11'1")
PC450-8 ^{**}	4020 (13'2")	5055 (16'7")	1320 (4'4")	3645 (12'0")	2995 (9'10")	3250 (10'8")	685 (2'3")	2890 (9'6")	600 (24")	3490 (11'5")	2920 ^{*5} (9'7")	11905 (39'1")	3850 (12'8")	7.1 (23'2")	2.4 (7'10")
												11995 (39'4")	3745 (12'3")		2.9 (9'6")
												12040 (39'6")	3660 (12'0")		3.38 (11'1")
												11950 (39'2")	3885 (12'9")		4.0 (13'1")
PC450LC-8 PC450LC-8R	4350 (14'3")	5385 (17'8")	1320 (4'4")	3645 (12'0")	3145 (10'4")	3265 (10'9")	550 (1'10")	2740 (9'0")	600 (24")	3340 (11'0")	2885 ^{*5} (9'6")	12040 (39'6")	3660 (12'0")	7.1 (23'2")	3380 (11'1")
PC450LC-8 ^{**}	4350 (14'3")	5355 (17'7")	1320 (4'4")	3645 (12'0")	2995 (9'10")	3250 (10'8")	685 (2'3")	2890 (9'6")	600 (24")	3490 (11'5")	2920 ^{*5} (9'7")	11905 (39'1")	3850 (12'8")	7.1 (23'2")	2.4 (7'10")
												11995 (39'4")	3745 (12'3")		2.9 (9'6")
												12040 (39'6")	3660 (12'0")		3.38 (11'1")
												11950 (39'2")	3885 (12'9")		4.0 (13'1")
PC450LC-8 HD	4350 (14'3")	5385 (17'8")	1320 (4'4")	3645 (12'0")	2995 (9'10")	3250 (10'8")	685 (2'3")	2890 (9'6")	600 (24")	3490 (11'5")	2920 ^{*5} (9'7")	11530 (37'10") 11590 (38'0")	3570 (11'9") 3720 (12'2")	6.67 (21'11")	2.4 (7'10") 2.9 (9'6")
PC450LC-7	4350 (14'3")	5385 (17'8")	1320 (4'4")	3645 (12'0")	3145 (9'10")	3265 (10'9")	550 (1'10")	2740 (9'0")	600 (24")	3340 (11')	2715 ^{*5} (8'11")	12040 (39'6")	3660 (12'0")	7.06 (23'2")	3.38 (11'1")
PC600-8 PC600-8R	4250 (13'11")	5340 (17'6")	1365 (4'6")	3900 (12'10")	3195 (10'6")	3280 (10'9")	780 (2'7")	2590 ^{*5} (8'6") 3300 (10'10")	600 (24")	3900 (12'10") 3190 ^{*6} (10'6")	3435 ^{*9} (11'3")	12910 (42'4")	4300 (14'1")	7.66 (25'2")	3.5 (11'6")
												12830 (42'1")	4655 (15'3")		4.3 (14'1")
												12535 (41'2")	5235 (17'2")		5.2 (17'1")
												12540 (41'2")	4280 (14'1")		3.5 (11'6")
												11930 (39'2")	4600 (15'1")		2.9 (9'6")

* USA source
** UK source
*4 China source

^{*5} To top of engine cover
^{*6} When retracted
^{*9} To top of exhaust

Dimensions

EXCAVATORS (BACKHOE)



FVBH0313

	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (in)	J mm (ft.in)	K mm (ft.in)	M mm (ft.in)	N mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)
PC600-8**	4250 (13'11")	5340 (17'6")	1365 (4'6")	3800 (12'6")	3195 (10'6")	3290 (10'10")	780 (2'7")	2590 ^{*5} (8'6") 3300 (10'10")	600 (24")	3900 (12'10") 3190 ^{*6} (10'6")	3435 ^{*9} (11'3")	12440 (40'10")	4280 (14'1")	7.3 (23'11")	3.5 (11'6")
												11830 (38'10")	4600 (15'1")	6.6 (21'8")	2.9 (9'6")
PC600-7	4250 (13'11")	5340 (17'6")	1365 (4'6")	3800 (12'6")	3195 (10'6")	3290 (10'10")	780 (2'7")	2590 ^{*5} (8'6") 3300 (10'10")	600 (24")	3900 (12'10") 3190 ^{*6} (10'6")	3070 ^{*8} (10'1")	11830 (38'10")	4600 (15'1")	6.6 (21'8")	2.9 (9'6")
												12440 (40'10")	4280 (14'1")	7.3 (23'11")	3.5 (11'6")
												12810 (42'0")	4300 (14'1")	7.66 (25'2")	3.5 (11'6")
												12730 (41'9")	4655 (15'3")		4.3 (14'1")
12435 (40'10")	5235 (17'2")	5.2 (17'1")													
PC600LC-8 PC600LC-8R	4600 (15'1")	5690 (18'8")	1365 (4'6")	3900 (12'10")	3195 (10'6")	3280 (10'9")	780 (2'7")	2590 ^{*5} (8'6") 3300 (10'10")	600 (24")	3900 (12'10") 3190 ^{*6} (10'6")	3435 ^{*9} (11'3")	12910 (42'4")	4300 (14'1")	7.66 (25'2")	3.5 (11'6")
												12830 (42'1")	4655 (15'3")		4.3 (14'1")
												12535 (41'2")	5235 (17'2")		5.2 (17'1")
												12540 (41'2")	4280 (14'1")		3.5 (11'6")
11930 (39'2")	4600 (15'1")	2.9 (9'6")													
PC600LC-8**	4600 (15'1")	5690 (18'8")	1365 (4'6")	3800 (12'6")	3195 (10'6")	3290 (10'10")	780 (2'7")	2590 (8'6")	600 (24")	3900 (12'10")	3435 ^{*9} (11'3")	12810 (42'0")	4300 (14'1")	7.66 (25'2")	3.5 (11'6")
PC600LC-7	4600 (15'1")	5690 (18'8")	1365 (4'6")	3800 (12'6")	3195 (10'6")	3290 (10'10")	780 (2'7")	2590 ^{*5} (8'6") 3300 (10'10")	600 (24")	3900 (12'10") 3190 ^{*6} (10'6")	3070 ^{*8} (10'1")	11830 (38'10")	4600 (15'1")	6.6 (21'8")	2.9 (9'6")
												12440 (40'10")	4280 (14'1")	7.3 (23'11")	3.5 (11'6")
												12810 (42'0")	4300 (14'1")	7.66 (25'2")	3.5 (11'6")
												12730 (41'9")	4655 (15'3")		4.3 (14'1")
12435 (40'10")	5235 (17'2")	5.2 (17'1")													
PC800-8 PC800-8R	4500 (14'9")	5810 (19'1")	1560 (5'1")	4400 (14'5")	3195 (10'6")	3560 (11'8")	840 (2'9")	3500 (11'6")	610 (24")	4110 (13'6")	3670 (12')	14405 (47'3")	4690 (15'5")	8.2 (26'11")	3.6 (11'10")
										3390 ^{*6} (11'1")		14435 (47'4")	5630 (18'6")		4.6 (15'1")
										14115 (46'4")		6260 (20'6")	5.6 (18'4")		
PC800-8**	4500 (14'9")	5810 (19'1")	1560 (5'1")	4400 (14'5")	3265 (10'9")	3720 (12'2")	840 (2'7")	3500 (11'6")	610 (24")	4110 (13'6")	3665 ^{*8} (12'3")	13995 (45'1")	4850 (15'1")	8.04 (26'5")	3.6 (11'10")
										3390 ^{*6} (11'1")		13130 (43'9")	4615 (15'2")	7.1 (23'4")	2.9 ^{*5} (9'8")
PC750-7	4500 (14'9")	5810 (19'1")	1560 (5'1")	4300 (14'1")	3195 (10'6")	3560 (11'8")	840 (2'9")	3500 (11'6")	610 (24")	4110 (12'10")	3445 ^{*8} (11'4")	14305 (46'11")	4660 (15'3")	8.2 (26'11")	3.6 (11'10")
										3390 ^{*6} (11'1")		13955 (45'9")	5970 (19'7")		4.6 (15'1")
13530 (44'5")	6560 (21'6")	5.6 (18'4")													
PC800LC-8**	5020 (16'6")	6327 (20'9")	1560 (5'1")	4400 (14'5")	3265 (10'9")	3720 (12'2")	840 (2'9")	3500 (11'6")	710 (28")	4210 (14'0")	3665 ^{*8} (12'3")	13995 (45'1")	4850 (15'1")	8.04 (26'5")	3.6 (11'10")
												13130 (43'9")	4615 (15'2")		7.1 (23'4")
PC800LC-8***	5020 (16'6")	6330 (20'9")	1560 (5'1")	4400 (14'5")	3195 (10'6")	3565 (11'8")	840 (2'9")	3500 (11'6")	810 (32")	4310 (13'6")	4005 ^{*9} (13'2")	14405 (47'3")	4690 (15'5")	8.2 (26'11")	3.6 (11'10")
										3770 ^{*6} (12'4")		14435 (47'4")	5630 (18'6")		4.6 (15'1")
										14115 (46'4")		6260 (20'6")	5.6 (18'4")		

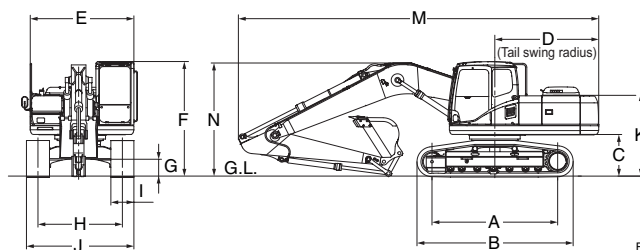
** UK source
*** For USA

^{*5} Variable gauge
^{*6} When retracted

^{*8} To top of engine cover
^{*9} To top of exhaust

Dimensions

EXCAVATORS (BACKHOE)



FVBH0313

	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (in)	J mm (ft.in)	K mm (ft.in)	M mm (ft.in)	N mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)
PC800-8 PC800-8R (SE spec.)	4500 (14'9")	5810 (19'1")	1560 (5'1")	4400 (14'5")	3195 (10'6")	3560 (11'8")	840 (2'9")	3500 (11'6")	610 (24")	4110 (13'6")	3670* ⁸ (12')	13130 (43'1")	4615 (15'2")	7.1 (23'4")	2.9 (9'8")
PC750-7 PC800-7 (SE spec.)	4500 (14'9")	5810 (19'1")	1560 (5'1")	4300 (14'1")	3195 (10'6")	3640 (11'11")	840 (2'9")	3500 (11'6")	610 (24")	4110 (13'6") 3390* ⁶ (11'1")	3445* ⁸ (11'4")	13030 (42'9")	4615 (15'2")	7.1 (23'4")	2.9 (9'8")
PC850-8 PC850-8R	4500 (14'9")	5810 (19'1")	1560 (5'1")	4400 (14'5")	3195 (10'6")	3560 (11'8")	840 (2'9")	3500 (11'6")	610 (24")	4110 (13'6")	3670* ⁸ (12')	13995 (45'11")	4850 (15'11")	8.04 (26'5")	3.6 (11'11")
PC850-8 PC850-8R (SE spec.)	4500 (14'9")	5810 (19'1")	1560 (5'1")	4400 (14'5")	3195 (10'6")	3560 (11'8")	840 (2'9")	3500 (11'6")	610 (24")	4110 (13'6")	3670* ⁸ (12')	13130 (43'1")	4615 (15'2")	7.1 (23'4")	2.945 (9'8")
PC1250-8 PC1250-8R	4995 (16'5")	6425 (21'1")	1790 (5'11")	4870 (16'0")	3470 (11'5")	4120 (13'6")	990 (3'3")	3900 (12'9")	700 (28")	4600 (15'1") 4965* ⁴ (16'3")	4075* ⁸ (13'4")	16020 (52'7") 16050 (52'8") 15840 (52'0")	6040 (19'10") 6460 (21'2") 6990 (22'11")	9.1 (29'10")	3.4 (11'2") 4.5 (14'9") 5.7 (18'8")
PC1250-7	4995 (16'5")	6425 (21'1")	1790 (5'11")	4870 (16'0")	3470 (11'5")	4120 (13'6")	990 (3'3")	3900 (12'9")	700 (28")	4600 (15'1") 4965* ⁴ (16'3")	3925* ⁸ (12'11")	16020 (52'7") 16050 (52'8") 15840 (52'0")	6040 (19'10") 6500 (21'4") 6990 (22'11")	9.1 (29'10")	3.4 (11'2") 4.5 (14'9") 5.7 (18'8")
PC1250LC-8	5970 (19'7")	7400 (24'3")	1790 (5'11")	4870 (16'0")	3470 (11'5")	4120 (13'6")	990 (3'3")	3900 (12'9")	1000 (39")	4600 (15'1") 4965* ⁴ (16'3")	4075* ⁸ (13'4")	16020 (52'7") 16050 (52'8") 15840 (52'0")	6040 (19'10") 6460 (21'2") 6990 (22'11")	9.1 (29'10")	3.4 (11'2") 4.5 (14'9") 5.7 (18'8")
PC1250-8 PC1250-8R (SP spec.)	4995 (16'5")	6425 (21'1")	1790 (5'11")	4870 (16'0")	3470 (11'5")	4120 (13'6")	990 (3'3")	3900 (12'9")	700 (28")	4600 (15'1") 4965* ⁴ (16'3")	4075* ⁸ (13'4")	14790 (48'6")	6265 (20'7")	7.8 (25'7")	3.4 (11'2")
PC1250-7 (SP spec.)	4995 (16'5")	6425 (21'1")	1790 (5'11")	4870 (16'0")	3470 (11'5")	4120 (13'6")	990 (3'3")	3900 (12'9")	700 (28")	4600 (15'1") 4965* ⁴ (16'3")	3925* ⁸ (12'11")	14790 (48'6")	6265 (20'7")	7.8 (25'7")	3.4 (11'2")
PC2000-8	5780 (19')	7445 (24'5")	2095 (6'10")	5980 (19'7")	7490 (24'7")	7030 (23'1")	825 (2'8")	4600 (15'1")	810 (32")	5410 (17'9")	5970* ⁸ (19'7")	17030 (55'11")	7135 (23'5")	8.7 (28'7")	3.9 (12'10")

** UK source

*** For USA

*4 Include step

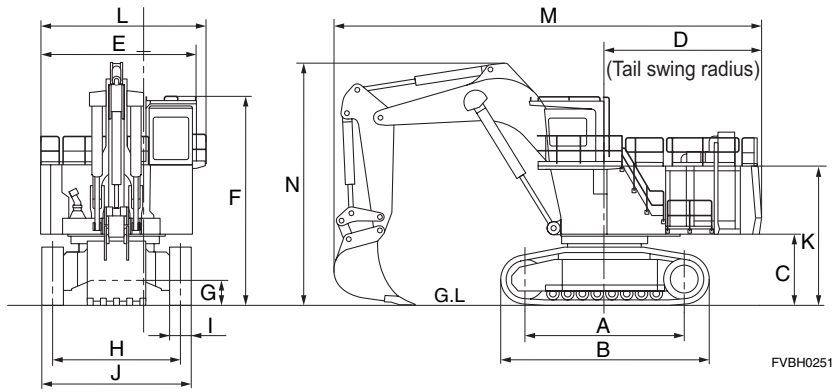
*6 When retracted

*8 To top of engine cover

*9 To top of exhaust

Dimensions

EXCAVATORS (BACKHOE)

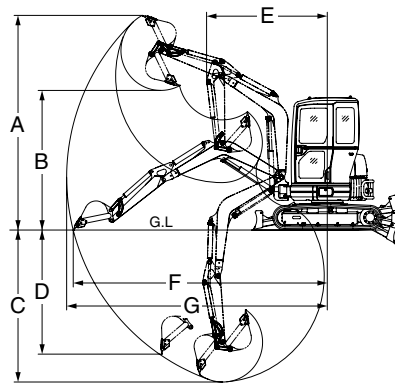
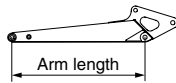
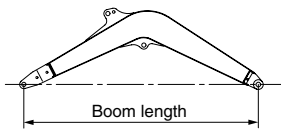


FVBH0251

	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (in)	J mm (ft.in)	K mm (ft.in)	L mm (ft.in)	M mm (ft.in)	N mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)
PC3000-6	6000 (19'8")	7910 (25'11")	2670 (8'9")	6480 (21'3")	6070 (19'11")	7485 (24'7")	920 (3'0")	4800 (15'9")	800 (31.5")	5600 (18'4")	5280 (17'4")	6800 (22'4")	16700 (54'10")	8300 (27'3")	8.6 (28'3")	4.0 (13'1")
PC4000-6	6700 (22'0")	8842 (29'0")	3017 (9'11")	6500 (21'4")	7071 (23'2")	8300 (27'3")	930 (3'1")	5550 (18'3")	1200 (47")	6750 (22'2")	6102 (20'0")	7975 (26'2")	17600 (57'9")	9900 (32'6")	9.75 (32'0")	4.5 (14'9")
PC5500-6	7425 (24'4")	9720 (31'11")	3310 (10'10")	7550 (24'9")	7270 (23'10")	8610 (28'3")	995 (3'3")	6190 (20'4")	1350 (53")	7540 (24'9")	6410 (21'0")	7900 (25'11")	20600 (67'7")	11100 (36'5")	11.0 (36'1")	5.1 (16'9")
PC8000-6	8100 (26'7")	10735 (35'3")	3555 (11'8")	8710 (28'7")	8300 (27'3")	9585 (31'5")	1144 (3'9")	6850 (22'6")	1500 (59")	8350 (27'5")	7115 (23'4")	10000 (32'10")	23000 (75'6")	12900 (42'4")	11.5 (37'9")	5.5 (18'1")

Working Ranges and Digging Forces

EXCAVATORS (BACKHOE)



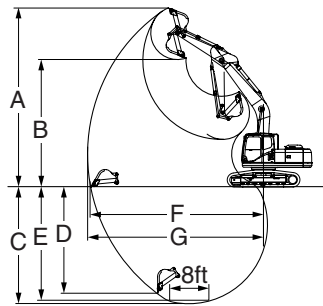
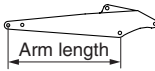
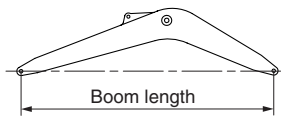
FVBH0016

	Boom length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Bucket digging force kg (lb/kN)*	Arm crowd force kg (lb/kN)*
PC01-1	0.92 (3')	0.48 (1'7")	1850 (6'1")	1300 (4'3")	1050 (3'5")	700 (2'4")	850 (2'9")	1925 (6'4")	2000 (6'7")	350 (770/3.4)	300 (660/2.9)
PC09-1	1.357 (4'5")	0.684 (2'3")	2790 (9'2")	1990 (6'6")	1500 (4'11")	1170 (3'10")	1050 (3'5")	2760 (9'1")	2840 (9'4")	1075 (2,370/10.5)	600 (1,320/5.9)
PC14R-3		0.88 (2'11")	3285 (10'9")	2295 (7'6")	2000 (6'7")	1450 (4'9")	1485 (4'10")	3545 (11'8")	3635 (11'11")	1210 (2,680/11.9)	750 (1,650/7.35)
		1.13 (3'8")	3430 (11'3")	2440 (8'0")	2250 (7'5")	1810 (5'11")	1540 (5'1")	3785 (12'5")	3865 (12'8")		585 (1,290/5.7)
PC16R-3		0.965 (3'2")	3610 (11'10")	2610 (8'7")	2160 (7'1")*	1785 (5'10")	1470 (4'10")	3735 (12'3")	3825 (12'7")	1450 (3,190/14.2)	920 (2,020/9.0)
		1.215 (4'0")	3820 (12'6")	2815 (9'3")	2410 (7'11")	2000 (6'7")	1570 (5'2")	3990 (13'1")	4070 (13'4")		730 (1,610/7.16)
PC18MR-3	1.76 (5'9")	0.965 (3'2")	3615 (11'10")	2610 (8'8")	2160 (7'1")	1785 (5'10")	1670 (5'6")	3935 (12'11")	4025 (13'2")	1620 (3,570/15.9)	1010 (2,225/9.9)
		1.215 (4'0")	3820 (12'6")	2815 (9'3")	2410 (7'11")	2000 (6'7")	1770 (5'10")	4190 (13'9")	4270 (14'0")		865 (1,910/8.5)
PC20MR-3	1.81 (5'11")	0.97 (3'2")	4000 (13'1")	2760 (9'1")	2280 (7'6")	1860 (6'1")	1790 (5'10")	4000 (13'1")	4150 (13'7")	1920 (4,234/18.8)	1390 (3065/13.6)
		1.32 (4'4")	4300 (14'1")	3020 (9'11")	2580 (8'6")	2215 (7'3")	1940 (6'4")	4350 (14'3")	4500 (14'9")		1140 (2510/11.2)
PC26MR-3		1.115 (3'8")	4170 (13'8")	2960 (9'9")	2740 (8'1")	1540 (5'1")	1960 (6'5")	4280 (14'1")	4430 (14'6")	2245 (4,950/22.0)	1430 (3,150/14.0)
		1.37 (4'6")	4340 (14'3")	3120 (10'3")	2720 (8'11")	1760 (5'9")	2060 (6'9")	4530 (14'10")	4660 (15'3")		1235 (2,720/12.1)
PC27MR-3	2.18 (7'2")	1.10 (3'8")	4480 (14'8")	3190 (10'6")	2550 (8'4")	2080 (6'10")	1980 (6'6")	4550 (14'11")	4650 (15'3")	2230 (4,920/21.9)	1500 (3,310/14.7)
		1.37 (4'6")	4690 (15'5")	3390 (11'1")	2840 (9'4")	2370 (7'9")	2030 (6'8")	4840 (15'11")	4930 (16'2")		1243 (2,840/12.1)
PC30MR-3	2.285 (7'6")	1.24 (4'1")	4840 (15'11")	3350 (11'0")	2760 (9'1")	2400 (7'10")	2055 (6'9")	4910 (16'1")	5050 (16'7")	3000 (6,615/29.4)	1800 (3,970/17.7)
		1.61 (5'5")	5070 (16'8")	3580 (11'9")	3130 (10'3")	2770 (9'1")	2190 (7'2")	5215 (17'1")	5390 (17'8")		1500 (3310/14.7)
PC35MR-3	2.54 (8'4")	1.37 (4'6")	5000 (16'5")	3530 (11'7")	3110 (10'2")	2690 (8'10")	2030 (6'8")	5170 (17'0")	5300 (17'5")	3050 (6,725/29.9)	2100 (4,630/20.6)
		1.72 (5'8")	5270 (17'3")	3790 (12'5")	3455 (11'4")	3120 (10'3")	2140 (7'0")	5520 (18'1")	5640 (18'6")		1760 (3,880/17.3)
PC45MR-3	2.64 (8'8")	1.375 (4'6")	5515 (18'1")	3785 (12'5")	3350 (11'0")	2645 (8'8")	2340 (7'8")	5575 (18'3")	5735 (18'10")	3460 (7,630/33.9)	2200 (4,850/21.6)
		1.77 (6'0")	5780 (19'0")	4060 (13'4")	3770 (12'4")	3060 (10'0")	2410 (7'11")	5980 (19'7")	6130 (20'1")		1980 (4,370/19.4)
PC55MR-3	2.90 (9'6")	1.64 (5'5")	5945 (19'6")	4230 (13'11")	3800 (12'6")	3020 (9'11")	2270 (7'5")	6070 (19'11")	6220 (20'5")	3980 (8,775/39.0)	2440 (5,380/23.9)
		2.0 (6'3")	6215 (20'5")	4495 (14'9")	4160 (13'8")	3380 (11'1")	2380 (7'10")	6430 (21'1")	6570 (21'7")		2150 (4,740/23.9)

* ISO rating

Working Ranges and Digging Forces

EXCAVATORS (BACKHOE)



FVBH0312

	Boom length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Bucket digging force* kg (lb/kN)	Arm crowd force* kg (lb/kN)	
PC78US-8	3.71 (12'2")	1.65 (5'5")	7300 (23'11")	5180 (17'0")	4100 (13'5")	3610 (11'10")	3770 (12'4")	6240 (20'6")	6380 (20'11")	6250 (13,780/61.3)	4230 (9,330/41.5)	
		2.25 (7'5")	7600 (24'11")	5500 (18'0")	4710 (15'5")	4030 (13'3")	4430 (14'6")	6790 (22'3")	6920 (22'8")		3520 (7,760/34.5)	
PC80MR-3		1.65 (5'5")	6298 (20'8")	4429 (14'6")	4000 (13'1")	2584 (8'6")	3609 (11'10")	6614 (21'8")	6792 (22'3")	5970 (13,160/58.6)	3990 (8,800/39.1)	
		2.0 (6'7")	6520 (21'5")	4631 (15'2")	4350 (14'3")	2890 (9'6")		6958 (22'10")	7126 (23'5")			
PC88MR-8	3.4 (11'2")	1.65 (5'5")	6570 (21'7")	4515 (14'10")	4160 (13'8")	2900 (9'6")	3750 (12'4")	6725 (22'1")	6935 (22'9")	6250 (13,780/61.3)	4230 (9,330/41.5)	
		2.1 (6'11")	6750 (22'2")	4720 (15'6")	4615 (15'2")	3165 (10'5")	4250 (13'11")	7150 (23'5")	7345 (24'1")		3700 (8,160/36.3)	
PC110R-1*6	4.6 (15'1")	1.85 (6'1")	6250 (20'6")	4515 (14'10")	4100 (13'5")	2730 (8'10")			7060 (23'2")	7500 (16,530/73.5)	4300 (9,480/42.2)	
		2.0 (6'7")	6350 (20'10")	4605 (15'1")	4250 (13'11")	2870 (9'5")			7200 (23'7")			
		2.3 (7'7")	6530 (21'5")	4790 (15'9")	4555 (14'11")	3145 (10'4")			7490 (24'7")			
PC120-6	4.6 (15'1")	2.1 (6'11")	8345 (27'5")	5905 (19'4")	5115 (16'9")	4520 (14'10")	4875 (16')	7795 (25'7")	7925 (26')	8500** (18,740/83.4)	7500** (16,530/73.6)	
		2.5 (8'2")	8610 (28'3")	6170 (20'3")	5520 (18'1")	4940 (16'2")	5315 (17'5")	8170 (26'10")	8290 (27'2")		6300** (13,890/61.8)	
		3.0 (9'10")	8970 (29'5")	6535 (21'5")	6015 (19'9")	5360 (17'7")	5835 (19'2")	8665 (28'5")	8785 (28'10")		5250** (11,570/51.5)	
PC130-8	4.6 (15'1")	2.5 (8'2")	8650 (28'5")	6210 (20'5")	5520 (18'1")	4980 (16'4")	5320 (17'5")	8170 (26'10")	8290 (27'2")	9520 (21,000/93.4)	6880 (15,170/67.5)	
		3.0 (9'10")	8930 (29'4")	6615 (21'8")	5955 (19'6")	5365 (17'7")	5775 (18'11")	8595 (28'2")	8720 (28'7")		6050 (13,340/59.3)	
PC130-8***	4.6 (15'1")	2.1 (6'11")	8390 (27'6")	5935 (19'6")	5125 (16'10")	4570 (15'0")	4870 (16')	7795 (25'7")	7930 (26')	9500 (20,940/93.2)	7900 (17,420/77.5)	
		2.5 (8'2")	8650 (28'5")	6210 (20'4")	5520 (18'1")	4980 (16'4")	5320 (17'5")	8170 (26'10")	8290 (27'2")		6900 (15,210/67.7)	
		3.0 (9'10")	8930 (29'4")	6515 (21'4")	5955 (19'6")	5365 (17'7")	5775 (18'11")	8595 (28'2")	8720 (28'7")		6200 (13,670/60.8)	
PC130-7*5	4.6 (15'1")	2.1 (6'11")	8345 (27'5")	5905 (19'4")	5115 (16'9")	4520 (14'10")	4875 (16')	7795 (25'7")	7925 (26')	9500 (20,940/93.2)	7900 (17,420/77.5)	
		2.5 (8'2")	8610 (28'3")	6170 (20'3")	5520 (18'1")	4940 (16'2")	5315 (17'5")	8170 (26'10")	8290 (27'2")		6900 (15,210/67.7)	
		2.9 (9'6")	8970 (29'5")	6535 (21'5")	6015 (19'9")	5360 (17'7")	5835 (19'2")	8665 (28'5")	8785 (28'10")		6200 (13,670/60.8)	
PC138US-8 PC138USLC-8	4.6 (15'1")	2.1 (6'11")	9020 (29'7")	6525 (21'5")	5070 (16'8")	4490 (14'9")	4830 (15'10")	7805 (25'7")	7930 (26'0")	9000 (19,840/88.3)	7300 (16,090/71.6)	
		2.5 (8'2")	9340 (30'8")	6840 (22'5")	5480 (18'0")	4900 (16'1")	5265 (17'3")	8180 (26'10")	8300 (27'0")		9500 (20,950/93.2)	6300 (13,890/61.8)
		3.0 (9'10")	9700 (31'10")	7350 (24'1")	5900 (19'4")	5340 (17'6")	5715 (18'9")	8600 (28'3")	8720 (28'7")		9000 (19,840/88.3)	5700 (12,570/55.9)
PC160LC-8	5.15 (16'11")	2.25 (7'5")	8910 (29'3")	6280 (20'7")	5610 (18'5")	4860 (15'11")	5375 (17'8")	8510 (27'11")	8680 (28'6")	12500 (27,560/123)	9700 (21,380/95.1)	
		2.61 (8'6")	8980 (29'6")	6370 (20'11")	5960 (19'6")	5040 (16'6")	5740 (18'10")	8800 (28'10")	8960 (29'6")		8800 (19,400/86.3)	
		2.9 (9'6")	9130 (29'11")	6525 (21'5")	6250 (20'6")	5320 (17'5")	6050 (19'10")	9075 (29'9")	9235 (30'4")		8100 (17,860/79.4)	
PC160LC-7*5	5.15 (16'11")	2.25 (7'5")	8910 (29'3")	6280 (20'7")	5610 (18'5")	4860 (15'11")	5375 (17'8")	8510 (27'11")	8680 (28'6")	12500 (27,560/123)	9700 (21,380/95.1)	
		2.61 (8'6")	8980 (29'6")	6370 (20'11")	5960 (19'6")	5040 (16'6")	5740 (18'10")	8800 (28'10")	8960 (29'6")		8800 (19,400/86.3)	
		2.9 (9'6")	9130 (29'11")	6525 (21'5")	6250 (20'6")	5320 (17'5")	6050 (19'10")	9075 (29'9")	9235 (30'4")		8100 (17,860/79.4)	

* Using power max. function and ISO rating

** SAE rating

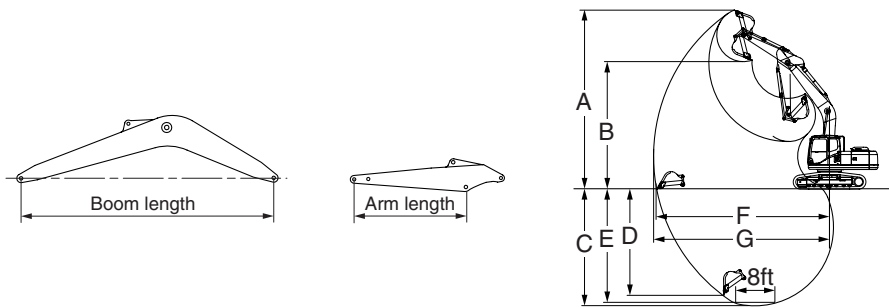
*** UK source

*5 China source

*6 With one piece boom

Working Ranges and Digging Forces

EXCAVATORS (BACKHOE)



FVBH0312

	Boom length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Bucket digging force* kg (lb/kN)	Arm crowd force* kg (lb/kN)
PC160LC-7E0 ^{*3} PC180LC-7E0 ^{*3} PC180NLC-7E0 ^{*3}	5.15 (16'11")	2.25 (7'5")	8910 (29'3")	6280 (20'7")	5610 (18'5")	4860 (15'11")	5375 (17'8")	8510 (27'11")	8680 (28'6")	12500 (27,560/123)	9700 (21,380/95.1)
		2.61 (8'6")	8980 (29'6")	6370 (20'11")	5960 (19'6")	5040 (16'6")	5740 (18'10")	8800 (28'10")	8960 (29'6")		8800 (19,400/86.3)
		2.9 (9'6")	9130 (29'11")	6525 (21'5")	6250 (20'6")	5320 (17'5")	6050 (19'10")	9075 (29'9")	9235 (30'4")		8100 (17,860/79.4)
PC160LC-7E0 ^{*10} PC180LC-7E0 ^{*10} PC180NLC-7E0 ^{*10}		2.25 (7'5")	9425 (30'11")	6755 (22'2")	5185 (17'0")	4230 (13'11")	5065 (16'7")	8470 (27'9")	8640 (28'4")	12500 (27,560/123)	9700 (21,380/95.1)
		2.61 (8'6")	9580 (31'5")	6910 (22'8")	5515 (18'1")	4530 (14'10")	5400 (17'9")	8765 (28'9")	8930 (29'4")		8800 (19,400/86.3)
		2.9 (9'6")	9760 (32'0")	7100 (23'4")	5800 (19'0")	4850 (15'11")	5690 (18'8")	9045 (29'8")	9200 (30'2")		8100 (17,860/79.4)
PC200-8 PC200LC-8	5.7 (18'8")	1.84 (6'0")	9500 (31'2")	6630 (21'9")	5380 (17'8")	4630 (15'2")	5130 (16'0")	8660 (28'5")	8850 (29'1")	18000** (39,680/177)	14800 (32,630/145)
		2.41 (7'11")	9800 (32'2")	6890 (22'7")	6095 (20'0")	5430 (17'10")	5780 (19'0")	9190 (30'2")	9380 (30'9")		13000 (28,660/127)
		2.925 (9'7")	10000 (32'10")	7110 (23'4")	6620 (21'9")	5980 (19'7")	6370 (20'11")	9700 (31'10")	9875 (32'5")		11000 (24,250/108)
PC200-8 ^{*6} PC200LC-8 ^{*5}	5.7 (18'8")	2.41 (7'11")	9800 (32'2")	6890 (22'7")	6095 (20'0")	5430 (17'10")	5780 (19'0")	9190 (30'2")	9380 (30'9")	15200 (33,510/149)	13000 (28,660/127)
		2.925 (9'7")	10000 (32'10")	7110 (23'4")	6620 (21'9")	5980 (19'7")	6370 (20'11")	9700 (31'10")	9875 (32'5")		11000 (24,250/108)
		1.84 (6'0")	9500 (31'2")	6630 (21'9")	5380 (17'8")	4630 (15'2")	5130 (16'0")	8660 (28'5")	8850 (29'1")		14800 (32,630/145)
PC200-7 PC200LC-7 PC200-7 ^{*8}	5.7 (18'8")	2.41 (7'11")	9800 (32'2")	6890 (22'7")	6095 (20'0")	5430 (17'10")	5780 (19'0")	9190 (30'2")	9380 (30'9")	15200 (33,510/149)	13000 (28,660/127)
		2.925 (9'7")	10000 (32'10")	7110 (23'4")	6620 (21'9")	5980 (19'7")	6370 (20'11")	9700 (31'10")	9875 (32'5")		11000 (24,250/108)
		1.84 (6'0")	9500 (31'2")	6630 (21'9")	5380 (17'8")	4630 (15'2")	5130 (16'0")	8660 (28'5")	8850 (29'1")		14800 (32,630/145)
PC200-7 SEF	5.2 (17'1")	1.9 (6'3")	9250 (30'4")	6280 (20'7")	5185 (17'0")				8530 (28'0")	17600 (38,800/172.5)	15750 (34,720/154)
PC200-8 ^{*7} PC200LC-8 ^{*7} PC210-8 ^{*7} PC210LC-8 ^{*7}	5.7 (18'8")	1.84 (6'0")	9500 (31'2")	6630 (21'9")	5380 (17'8")	4630 (15'2")	5130 (16'0")	8660 (28'5")	8850 (29'1")	18000** (39,680/177)	14800 (32,630/145)
		2.41 (7'11")	9800 (32'2")	6890 (22'7")	6095 (20'0")	5430 (17'10")	5780 (19'0")	9190 (30'2")	9380 (30'8")		13000 (28,660/127)
		2.925 (9'7")	10000 (32'10")	7110 (23'4")	6620 (21'9")	5980 (19'7")	6370 (20'11")	9700 (31'10")	9875 (32'5")		11000 (24,250/108)
PC210-8 PC210LC-8 PC210NLC-8	5.7 (18'8")	1.84 (6'0")	9500 (31'2")	6630 (21'9")	5380 (17'8")	4630 (15'2")	5130 (16'0")	8660 (28'5")	8850 (29'1")	17500 (38,580/172)	14800 (32,630/145)
		2.41 (7'11")	9800 (32'2")	6890 (22'7")	6095 (20'0")	5430 (17'10")	5780 (19'0")	9190 (30'2")	9380 (30'9")		13000 (28,660/127)
		2.925 (9'7")	10000 (32'10")	7110 (23'4")	6620 (21'9")	5980 (19'7")	6370 (20'11")	9700 (31'10")	9875 (32'5")		11000 (24,250/108)
PC220-8 PC220LC-8	5.9 (19'2")	2.00 (6'7")	9665 (31'9")	6715 (22'0")	5825 (19'1")	4750 (15'7")	5585 (18'4")	9070 (29'9")	9270 (30'5")	17500 (38,580/172)	20100 (44,310/197)
		2.50 (8'2")	9790 (32'1")	6860 (22'6")	6320 (20'9")	5130 (16'10")	6100 (20'0")	9480 (31'1")	9670 (31'9")		15100 (33,290/148)
		3.05 (10'0")	10000 (32'10")	7035 (23'1")	6920 (22'8")	6010 (19'9")	6700 (22'0")	10020 (32'10")	10180 (33'5")		13200 (29,100/129)
PC220LC-8 ^{*6}	5.9 (19'2")	3.05 (10'0")	10000 (32'10")	7035 (23'1")	6920 (22'8")	6010 (19'9")	6700 (22'0")	10020 (32'10")	10180 (33'5")	17500 (38,580/172)	13200 (29,100/129)
		3.51 (11'6")	10300 (33'10")	7360 (24'2")	7320 (24'0")	6230 (20'5")	7150 (23'5")	10420 (34'2")	10580 (34'8")		11200 (24,690/110)
PC220-7 PC220LC-7	5.9 (19'2")	2.00 (6'7")	9665 (31'9")	6715 (22'0")	5825 (19'1")	4750 (15'7")	5585 (18'4")	9070 (29'9")	9270 (30'5")	20100 (44,310/197)	16400 (36,160/161)
		2.50 (8'2")	9790 (32'1")	6860 (22'6")	6320 (20'9")	5130 (16'10")	6100 (20'0")	9480 (31'1")	9670 (31'9")		15100 (33,290/148)
		3.05 (10'0")	10000 (32'10")	7035 (23'1")	6920 (22'8")	6010 (19'9")	6700 (22'0")	10020 (32'10")	10180 (33'5")		13200 (29,100/129)

* Using power max. function and ISO rating

** Optional bucket cylinder is required

*** UK source

*4 For USA

*5 USA source

*6 Thailand source

*7 China source

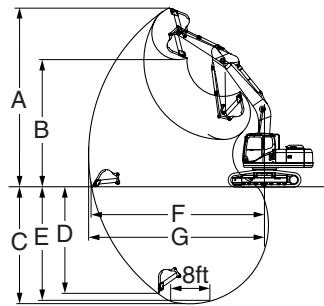
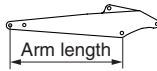
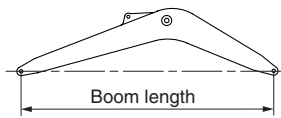
*8 Indonesia source

*9 With one piece boom

*10 With two piece boom

Working Ranges and Digging Forces

EXCAVATORS (BACKHOE)



FVBH0312

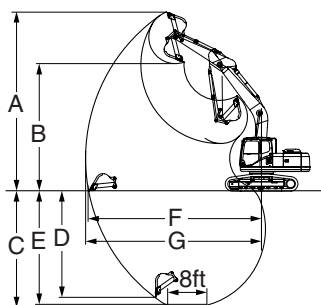
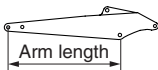
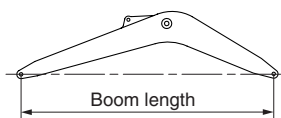
	Boom length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Bucket digging force* kg (lb/kN)	Arm crowd force* kg (lb/kN)
PC220-8*7	5.85 (19'2")	2.0 (6'7")	9665 (31'9")	6715 (22'0")	5825 (22'0")	4750 (15'7")	5585 (18'4")	9070 (29'9")	9270 (30'5")	20100 (44,310/197)	16400 (36,160/161)
		2.5 (8'2")	9790 (32'1")	6860 (22'6")	6320 (20'9")	5130 (16'10")	6100 (20'0")	9480 (31'1")	9670 (31'9")	17500 (38,580/172)	15100 (33,290/148)
		3.05 (10'0")	10000 (32'10")	7035 (23'1")	6920 (22'8")	6010 (19'9")	6700 (22'0")	10020 (32'10")	10180 (33'5")		13200 (29,100/129)
PC228US-3E0 PC228USLC-3E0	5.7 (18'8")	2.925 (9'6")	10700 (35'1")	7825 (25'8")	6620 (21'9")	5980 (19'7")	6370 (20'11")	9700 (31'10")	9875 (32'5")	15200 (33,510/149)	11000 (24,250/108)
		2.4 (7'11")	10380 (34'0")	7470 (24'6")	6095 (20'0")	5315 (17'5")	5840 (19'2")	9205 (30'2")	9395 (30'10")		13000 (28,660/129)
PC230NHD-8	5.7 (18'8")	1.80 (5'11")	9525 (31'3")	6655 (21'10")	5355 (17'7")	4605 (15'1")	5105 (16'9")	8660 (28'5")	8850 (29'0")	17500 (38,580/172)	14800 (32,630/145)
		2.40 (7'10")	9825 (32'3")	6915 (22'8")	6070 (19'11")	5405 (17'9")	5755 (18'10")	9190 (30'2")	9380 (30'9")		13000 (28,660/127.5)
		2.90 (9'6")	10025 (32'11")	7135 (23'5")	6595 (21'8")	5955 (19'6")	6345 (20'10")	9700 (31'10")	9875 (32'5")	15200 (33,510/149)	11000 (24,250/108)
PC240LC-8 PC240NLC-8	5.9 (19'2")	2.00 (6'7")	9665 (31'9")	6715 (22'0")	5825 (19'1")	4750 (15'7")	5585 (18'4")	9070 (29'9")	9270 (30'5")	20100 (44,310/197)	16400 (36,160/161)
		2.50 (8'2")	9790 (32'1")	6860 (22'6")	6320 (20'9")	5130 (16'10")	6100 (20'0")	9480 (31'1")	9670 (31'9")		15100 (33,290/148)
		3.05 (10'0")	10000 (32'10")	7035 (23'1")	6920 (22'8")	6010 (19'9")	6700 (22'0")	10020 (32'10")	10180 (33'5")	17500 (38,580/172)	13200 (29,100/129)
		3.50 (11'6")	10300 (33'10")	7360 (24'2")	7320 (24'0")	6230 (20'5")	7150 (23'5")	10420 (34'2")	10580 (34'8")		11200 (24,690/110)
PC240LC-8*7	5.85 (19'2")	3.05 (10'0")	10000 (32'10")	7035 (23'1")	6920 (22'8")	6010 (19'9")	6700 (22'0")	10020 (32'10")	10180 (33'5")	17500 (38,580/172)	13200 (29,100/129)
PC270-8 PC270LC-8	5.9 (19'2")	2.50 (8'2")	9620 (31'7")	6720 (22'1")	5940 (19'6")	4800 (15'9")	5750 (18'10")	9450 (31'0")	9650 (31'8")	20200 (44,530/198)	17300 (38,140/170)
		3.05 (10'0")	10000 (32'10")	7035 (23'1")	6460 (21'2")	5650 (18'6")	6320 (20'9")	9990 (32'9")	10100 (33'2")		14100 (31,080/138)
		3.50 (11'6")	10130 (33'3")	7200 (23'7")	6940 (22'9")	5930 (19'5")	6790 (22'3")	10390 (34'1")	10570 (34'8")		12800 (28,220/126)
PC270-7*7	5.85 (19'2")	3.05 (10'0")	10000 (32'10")	7035 (23'1")	6460 (21'2")	5650 (18'6")	6320 (20'9")	9990 (32'9")	10100 (33'2")	20200 (44,530/198)	15100 (33,290/148)
PC270LC-8*6	5.9 (19'2")	3.05 (10'0")	10000 (32'10")	7035 (23'1")	6460 (21'2")	5650 (18'6")	6320 (20'9")	9990 (32'9")	10100 (33'2")	20200 (44,530/198)	14100 (31,080/138)
		3.5 (11'6")	10130 (33'3")	7200 (23'7")	6940 (22'9")	5930 (19'5")	6790 (22'3")	10390 (34'1")	10570 (34'8")		12800 (28,220/126)
PC290LC-8 PC290NLC-8	5.9 (19'2")	2.00 (6'7")	9665 (31'8")	6715 (22'0")	5440 (17'10")	4420 (14'6")	5235 (17'2")	9070 (29'9")	9260 (30'5")	23100 50,920/227	18800 41,440/184
		2.50 (8'2")	9790 (32'1")	6860 (22'6")	5940 (19'6")	4800 (15'9")	5750 (18'10")	9470 (31'1")	9670 (31'9")		17300 38,140/170
		3.05 (10'0")	10000 (32'10")	7035 (23'1")	6540 (21'5")	5680 (18'8")	6320 (20'9")	10020 (32'11")	10170 (33'4")	20200	15100 33,290/148
		3.50 (11'6")	10300 (33'10")	7360 (24'2")	6940 (22'9")	5900 (19'1")	6790 (22'3")	10420 (34'2")	10570 (34'8")	44,530/198	12800 28,220/126

* Using power max. function and ISO rating
*5 For USA

*6 USA source
*7 China source

Working Ranges and Digging Forces

EXCAVATORS (BACKHOE)



FVBH0312

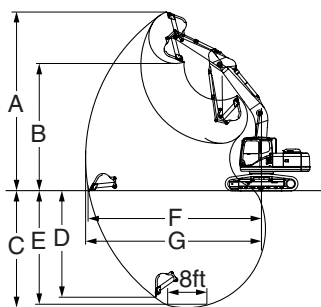
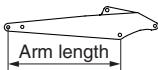
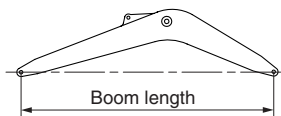
	Boom length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Bucket digging force* kg (lb/kN)	Arm crowd force* kg (lb/kN)
PC300-8 ^{*8} PC300LC-8 ^{*8} PC300-8 ^{*8} (SE spec.)	6.47 (21'3")	2.2 (7'3")	9460 (31'0")	6520 (21'5")	6400 (21'0")	4890 (16'1")	6130 (20'1")	9910 (32'6")	10120 (33'2")	26400** (58,200/228)	24000 (52,910/235)
		2.55 (8'4")	9965 (32'8")	6895 (22'7")	6750 (22'2")	5880 (19'4")	6520 (21'5")	10355 (34'0")	10550 (34'7")		20500 (45,190/201)
		3.185 (10'5")	10100 (33'2")	7050 (23'2")	7380 (24'3")	6400 (21'0")	7180 (23'7")	10920 (35'10")	11100 (36'5")	23100 (50,930/227)	17400 (38,360/171)
PC300-8 PC300LC-8	6.5 (21'3")	2.22 (7'3")	9580 (31'5")	6595 (21'8")	6355 (20'10")	5120 (16'10")	6130 (20'1")	9950 (32'8")	10155 (33'4")	26400** (58,200/228)	24000 (52,910/235)
		2.55 (8'4")	9965 (32'8")	6895 (22'7")	6705 (22'0")	5880 (19'4")	6520 (21'5")	10355 (34'0")	10550 (34'7")		20500 (45,190/201)
		3.185 (10'5")	10210 (33'6")	7110 (23'4")	7380 (24'3")	6480 (21'3")	7180 (23'7")	10920 (35'10")	11100 (36'5")	23100 (50,930/227)	17400 (38,360/171)
		4.02 (13'2")	10550 (34'7")	7490 (24'7")	8180 (26'10")	7280 (23'11")	8045 (26'5")	11730 (38'6")	11900 (39'1")		14700 (32,410/144)
PC300-7 PC300LC-7	6.5 (21'3")	2.22 (7'3")	9580 (31'5")	6595 (21'8")	6355 (20'10")	5120 (16'10")	6130 (20'1")	9950 (32'8")	10155 (33'4")	26400** (58,200/228)	24000 (52,910/235)
		2.55 (8'4")	9965 (32'8")	6895 (22'7")	6705 (22'0")	5880 (19'4")	6520 (21'5")	10355 (34'0")	10550 (34'7")		20500 (45,190/201)
		3.185 (10'5")	10100 (33'2")	7050 (23'2")	7380 (24'3")	6400 (21'0")	7180 (23'7")	10920 (35'10")	11100 (36'5")	23100 (50,930/227)	17400 (38,360/171)
		4.02 (13'2")	10550 (34'7")	7490 (24'7")	8180 (26'10")	7280 (23'11")	8045 (26'5")	11730 (38'6")	11900 (39'1")		14700 (32,410/144)
PC300HD-8	6.5 (21'3")	2.54 (8'4")	10070 (33'4")	7005 (23'0")	6640 (21'9")	5795 (19'0")	6455 (21'2")	10315 (33'10")	10550 (34'7")	26400** (58,200/259)	20500 (45,190/144)
		3.185 (10'5")	10260 (33'7")	7155 (23'6")	7265 (23'10")	6235 (20'6")	7100 (23'3")	10870 (35'8")	11100 (36'5")		23100 (50,930/227)
		4.02 (13'2")	10660 (35'0")	7600 (24'11")	8100 (26'7")	7145 (23'5")	7975 (26'2")	11705 (38'5")	11895 (39'0")		14700 (32,410/144)
PC300LC-8 ^{*6}	6.5 (21'3")	2.54 (8'4")	9965 (32'8")	6895 (22'7")	6705 (22'0")	5880 (19'4")	6520 (21'5")	10355 (34'0")	10550 (34'7")	26400** (58,200/259)	20500 (45,190/201)
		3.185 (10'5")	10210 (33'6")	7110 (23'4")	7380 (24'3")	6480 (21'3")	7180 (23'7")	10920 (35'10")	11100 (36'5")		23100 (50,930/227)
		4.02 (13'2")	10550 (34'7")	7490 (24'7")	8180 (26'10")	7280 (23'11")	8045 (26'5")	11730 (38'6")	11900 (39'1")		14700 (32,410/144)
PC300-7 ^{*7} PC360-7 ^{*7}	6.47 (21'3")	2.2 (7'3")	9580 (31'5")	6595 (21'8")	6355 (20'10")	5120 (16'10")	6130 (20'1")	9950 (32'8")	10155 (33'4")	26400** (58,200/259)	24000 (52,910/235)
		2.55 (8'4")	9965 (32'8")	6895 (22'7")	6705 (22')	5880 (19'4")	6520 (21'5")	10355 (34')	10550 (34'7")		20500 (45,190/201)
		3.185 (10'5")	10100 (33'2")	7050 (23'2")	7380 (24'3")	6400 (21'0")	7180 (23'7")	10920 (35'10")	11100 (36'5")	23100 (50,930/227)	17400 (38,360/171)
		4.02 (13'2")	10550 (34'7")	7490 (24'7")	8180 (26'10")	7280 (23'11")	8045 (26'5")	11730 (38'6")	11900 (39'1")		14700 (32,410/144)
PC308USLC- 3E0	5.85 (19'2")	3.045 (10'0")	10000 (32'10")	7035 (23'1")	6460 (21'2")	5650 (18'6")	6320 (20'9")	10060 (33'0")	10210 (33'6")	20200 (44,530/198)	14100 (31,080/138)
		3.5 (11'6")	10130 (33'3")	7200 (23'7")	6940 (22'9")	5930 (19'5")	6790 (22'3")	10460 (34'3")	10640 (34'11")		12800 (28,210/126)
		4.2 (13'9")	10730 (35'2")	7985 (26'2")	7560 (24'9")	6920 (22'8")	7430 (24'4")	11185 (36'8")	11540 (37'10")		11400 (24,950/111)

* Using power max. function and ISO rating
 ** Optional bucket cylinder is required
 *6 USA source

*7 China source
 *8 Indonesia source

Working Ranges and Digging Forces

EXCAVATORS (BACKHOE)



FVBH0312

	Boom length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Bucket digging force* kg (lb/kN)	Arm crowd force* kg (lb/kN)
PC350LC-8*4 PC350NLC-8*4	6.5 (21'3")	2.2 (7'3")	9580 (31'5")	6595 (21'8")	6355 (20'10")	5120 (16'10")	6130 (20'1")	9950 (32'8")	10155 (33'4")	26400 (58,200/256)	24000 (52,910/235)
		2.6 (8'6")	9965 (32'8")	6895 (22'7")	6705 (22'0")	5880 (19'4")	6520 (21'5")	10355 (34'0")	10550 (34'7")		20500 (45,190/193)
		3.2 (10'6")	10210 (33'6")	7110 (23'4")	7380 (24'3")	6480 (21'3")	7180 (23'7")	10920 (35'10")	11100 (36'5")	23100 (50,930/227)	17400 (38,360/171)
		4.0 (13'1")	10550 (34'7")	7490 (24'7")	8180 (26'10")	7280 (23'11")	8045 (26'5")	11730 (38'6")	11900 (39'1")		14700 (32,410/14)
PC350-8 PC350LC-8 PC350-7 PC350LC-7	6.5 (21'3")	3.185 (10'5")	10100 (33'2")	7050 (23'2")	7380 (24'3")	6400 (21'0")	7180 (23'7")	10920 (35'10")	11100 (36'5")	23200 (51,150/228)	17400 (38,360/171)
PC400-8 PC400LC-8 PC400-8R PC400LC-8R	7.06 (23'2")	2.4 (7'10")	10310 (33'10")	7070 (23'2")	6845 (22'6")	5305 (17'5")	6650 (21'10")	10855 (35'7")	11080 (36'4")	28200 (62,170/277)	25900 (57,100/254)
		2.9 (9'6")	10285 (33'9")	7080 (23'3")	7345 (24'1")	5700 (18'8")	7155 (23'6")	11230 (36'10")	11445 (37'7")		28100 (61,950/276)
		3.38 (11'1")	10915 (35'10")	7565 (24'10")	7820 (25'8")	6870 (22'6")	7680 (25'2")	11820 (38'9")	12025 (39'5")	28000 (61,730/275)	21800 (48,060/214)
		4.0 (13'1")	11025 (36'2")	7715 (25'4")	8445 (27'8")	7285 (23'11")	8315 (27'3")	12365 (40'7")	12565 (41'3")		27500 (60,630/270)
PC400LC-8*6	7.06 (23'2")	2.4 (7'10")	10310 (33'10")	7070 (23'2")	6845 (22'6")	5305 (17'5")	6650 (21'10")	10855 (35'7")	11080 (36'4")	28200 (62,170/277)	25900 (57,100/254)
		2.9 (9'6")	10285 (33'9")	7080 (23'3")	7345 (24'1")	5700 (18'8")	7155 (23'6")	11230 (36'10")	11445 (37'7")		28100 (61,950/276)
		3.38 (11'1")	10915 (35'10")	7565 (24'10")	7820 (25'8")	6870 (22'6")	7680 (25'2")	11820 (38'9")	12025 (39'5")	28000 (61,730/275)	21800 (48,060/214)
		4.0 (13'1")	11025 (36'2")	7715 (25'4")	8445 (27'8")	7285 (23'11")	8315 (27'3")	12365 (40'7")	12565 (41'3")		27500 (60,630/270)
PC400-7 PC400LC-7	7.06 (23'2")	2.4 (7'10")	10310 (33'10")	7070 (23'2")	6845 (22'6")	5305 (17'5")	6650 (21'10")	10855 (35'7")	11080 (36'4")	28200 (62,170/277)	25900 (57,100/254)
		2.9 (9'6")	10285 (33'9")	7080 (23'3")	7345 (24'1")	5700 (18'8")	7155 (23'6")	11230 (36'10")	11445 (37'7")		28100 (61,950/276)
		3.38 (11'1")	10915 (35'10")	7565 (24'10")	7820 (25'8")	6870 (22'6")	7680 (25'2")	11820 (38'9")	12025 (39'5")	28000 (61,730/275)	21800 (48,060/214)
		4.0 (13'1")	11025 (36'2")	7715 (25'4")	8445 (27'8")	7285 (23'11")	8315 (27'3")	12365 (40'7")	12565 (41'3")		27500 (60,630/270)
PC400LC-7*** (SE spec.)	7.06 (23'2")	2.4 (7'10")	10310 (33'10")	7070 (23'2")	6845 (22'6")	5305 (17'5")	6650 (21'10")	10855 (35'7")	11080 (36'4")	24500** (54,010/240)	24600** (54,230/241)
PC400-7*4 PC450-7*7	7.06 (23'2")	3.38 (11'1")	10925 (35'10")	7625 (25'0")	7790 (25'7")	6600 (21'8")	7630 (25')	11800 (38'9")	12005 (39'5")	28300 (62,340/278)	23800 (52,470/233)
PC450-8 PC450-8R PC450LC-8 PC450LC-8R PC450-7 PC450LC-7	7.06 (23'2")	3.380 (11'1")	10925 (35'10")	7625 (25'0")	7790 (25'7")	6600 (21'8")	7650 (25'1")	11800 (38'9")	12005 (39'5")	28300 (62,390/278)	23800 (52,470/233)
PC450-8*4 PC450LC-8*4	7.06 (23'2")	2.4 (7'10")	10310 (33'10")	7070 (23'2")	6845 (22'6")	5305 (17'5")	6650 (21'10")	10855 (35'7")	11080 (36'4")	28000 (61,730/275)	25900 (57,100/254)
		2.9 (9'6")	10285 (33'9")	7080 (23'3")	7345 (24'1")	5700 (18'8")	7155 (23'6")	11230 (36'10")	11445 (37'7")		28100 (61,950/276)
		3.38 (11'1")	10925 (35'10")	7625 (25'0")	7790 (25'7")	6600 (21'8")	7650 (25'1")	11800 (38'9")	12025 (39'5")	28000 (61,730/275)	21800 (48,060/214)
		4.0 (13'1")	11025 (36'2")	7715 (25'4")	8445 (27'8")	7285 (23'11")	8315 (27'3")	12365 (40'7")	12565 (41'3")		27500 (60,630/270)
PC450LC-8 HD*4	6.67 (21'11")	2.4 (7'10")	10359 (34'0")	7067 (23'2")	6401 (21'0")	4876 (16'0")	6220 (20'5")	10481 (34'5")	10713 (35'2")	28000 (61,730/275)	25900 (57,100/254)
		2.9 (9'6")	10363 (34'0")	7102 (23'4")	6902 (22'8")	5161 (16'11")	6741 (22'1")	10868 (35'8")	11083 (36'4")		26200 (57,760/257)

* Using power max. function and ISO rating

** SAE rating

*** Indonesia source

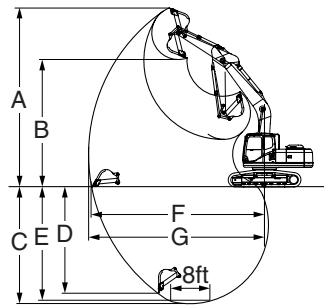
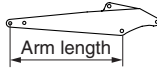
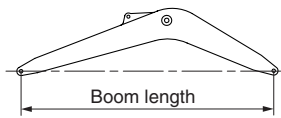
*4 UK source

*6 USA source

*7 China source

Working Ranges and Digging Forces

EXCAVATORS (BACKHOE)



FVBH0312

	Boom length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Bucket digging force* kg (lb/kN)	Arm crowd force* kg (lb/kN)
PC600-8 PC600LC-8 PC600LC-8*5 PC600-8R PC600LC-8R	7.7 (25'2")	3.5 (11'6")	11880 (39'0")	7960 (26'1")	8490 (27'10")	7510 (24'8")	8360 (27'5")	12800 (42'0")	13020 (42'9")	32300 (71,210/317)	25100 (55,340/246)
		4.3 (14'1")	12180 (40'0")	8245 (27'1")	9275 (30'5")	8375 (27'6")	9175 (30'1")	13555 (44'6")	13740 (45'1")		22200 (48,940/218)
		5.2 (17'1")	12560 (41'3")	8600 (28'3")	10225 (33'7")	9275 (30'5")	10125 (33'3")	14435 (47'4")	14630 (41'5")		19300 (42,550/189)
	7.3 (23'11")	3.5 (11'6")	11475 (37'8")	7650 (25'1")	8165 (26'9")	6660 (21'10")	8030 (26'4")	12385 (40'8")	12615 (41'5")	36900 (81,350/362)	25100 (55,340/246)
	6.6 (21'8")	2.9 (9'6")	11140 (36'7")	7210 (23'8")	7060 (23'2")	5630 (18'6")	6910 (22'8")	11300 (37'1")	11550 (37'11")		29900 (65,920/293)
PC600-7 PC600LC-7	7.7 (25'2")	3.5 (11'6")	11880 (39'0")	7960 (26'1")	8490 (27'10")	7510 (24'8")	8360 (27'5")	12800 (42'0")	13020 (42'9")	32300 (71,210/317)	25100 (55,340/246)
		4.3 (14'1")	12180 (40'0")	8245 (27'1")	9275 (30'5")	8375 (27'6")	9175 (30'1")	13555 (44'6")	13740 (45'1")		22200 (48,940/218)
		5.2 (17'1")	12560 (41'3")	8600 (28'3")	10225 (33'7")	9275 (30'5")	10125 (33'3")	14435 (47'4")	14630 (48'0")		19300 (42,550/189)
	7.3 (23'11")	3.5 (11'6")	11475 (37'8")	7650 (25'1")	8165 (26'9")	6660 (21'10")	8030 (26'4")	12385 (40'8")	12615 (41'5")	36900 (81,350/362)	25100 (55,340/246)
	6.6 (21'8")	2.9 (9'6")	11140 (36'7")	7210 (23'8")	7060 (23'2")	5630 (18'6")	6910 (22'8")	11300 (37'1")	11550 (37'11")		29900 (65,920/293)
PC600-8*4 PC600LC-8*4	7.3 (23'11")	3.5 (11'6")	11475 (37'8")	7650 (25'1")	8165 (26'9")	6660 (21'10")	8030 (26'4")	12385 (40'8")	12615 (41'5")	32300 (71,210/317)	25100 (55,340/246)
	6.6 (21'8")	2.9 (9'6")	11140 (36'7")	7210 (23'8")	7060 (23'2")	5630 (18'6")	6910 (22'8")	11300 (37'1")	11550 (37'11")	36900 (81,350/362)	29900 (65,920/280)
	7.66 (25'2")	3.5 (11'6")	11880 (39'0")	7960 (26'1")	8490 (27'10")	7510 (24'8")	8360 (27'5")	12800 (42'0")	13020 (42'9")	32300 (71,210/317)	25100 (55,340/246)
PC800-8 PC800LC-8 PC800-8R	8.2 (26'11")	3.6 (11'10")	11840 (38'10")	8145 (26'9")	8600 (28'3")	5575 (18'3")	8445 (27'8")	13460 (44'2")	13740 (45'1")	34000 (74,960/333)	25500 (56,220/250)
		4.6 (15'1")	12000 (39'4")	8295 (27'3")	9590 (31'6")	6575 (21'7")	9455 (31'0")	14310 (46'11")	14575 (47'1")		22600 (49,820/122)
		5.6 (18'4")	12690 (41'8")	8890 (29'2")	10595 (34'9")	7920 (26'0")	10500 (34'5")	15385 (50'6")	15635 (51'3")		19100 (42,110/183)
PC800-8*4	7.1 (23'4")	2.945 (9'6")	11330 (37'2")	7525 (24'8")	7130 (23'5")	4080 (13'5")	6980 (22'11")	11945 (39'2")	12265 (40'3")	43900 (96,780/431)	34800 (76,720/341)
PC800LC-8*4	8.04 (27'7")	3.6 (11'10")	11955 (39'3")	8235 (27'0")	8445 (27'8")	5230 (17'2")	8310 (27'3")	13400 (44'0")	13660 (44'10")	37000 (81,570/363)	29100 (64,150/285)
PC800LC-8*5	8.2 (26'11")	3.6 (11'10")	11840 (38'10")	8145 (26'9")	8600 (28'3")	5575 (18'3")	8445 (27'8")	13460 (44'2")	13740 (45'1")	34000 (74,960/333)	25500 (56,220/250)
		4.6 (15'1")	11990 (39'4")	8295 (27'3")	9590 (31'6")	6575 (21'7")	9455 (31'0")	14310 (46'11")	14575 (47'1")		22600 (49,820/222)
		5.6 (18'4")	12690 (41'8")	8890 (29'2")	10595 (34'9")	7920 (26'0")	10500 (34'5")	15385 (50'6")	15635 (51'3")		19100 (42,110/183)
	10.0 (32'10")	4.6 (15'1")	13270 (43'6")	9530 (31'3")	11165 (36'6")	7735 (25'4")	11030 (36'2")	16215 (53'2")	16450 (54'0")	43900 (96,780/431)	22600 (49,820/222)
		5.6 (18'4")	13969 (45'10")	10135 (33'3")	12170 (39'11")	9416 (30'11")	12075 (39'7")	17277 (56'8")	17497 (57'5")		19100 (42,110/183)
	7.1 (23'4")	2.945 (9'8")	11330 (37'2")	7525 (24'8")	7130 (23'5")	4080 (13'5")	6980 (22'11")	11945 (39'2")	12265 (40'3")	43900 (96,780/431)	34800 (76,720/341)
PC750-7	8.2 (26'11")	3.6 (11'10")	11840 (38'10")	8145 (26'7")	8600 (28'3")	5575 (18'3")	8445 (27'8")	13460 (44'2")	13740 (45'1")	34000 (74,960/333)	25500 (56,220/250)
		4.6 (15'1")	12000 (39'4")	8295 (27'3")	9590 (31'6")	6575 (21'7")	9455 (31'0")	14310 (46'1")	14575 (47'1")		22600 (49,820/222)
		5.6 (18'4")	12690 (41'8")	8890 (29'2")	10595 (34'9")	7920 (26'0")	10500 (34'5")	15385 (50'6")	15635 (51'4")		19100 (42,110/183)

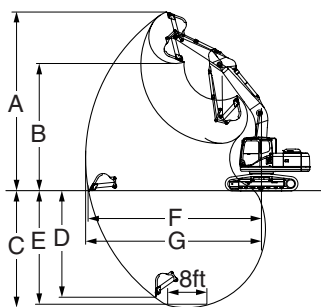
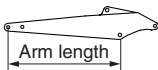
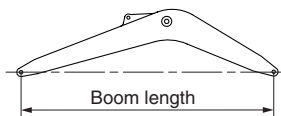
* Using power max. function and ISO rating

*4 UK source

*5 For USA

Working Ranges and Digging Forces

EXCAVATORS (BACKHOE)



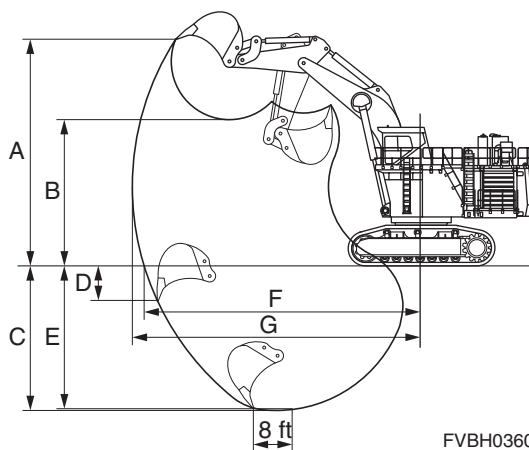
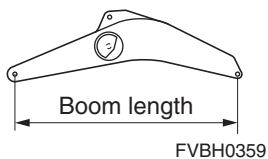
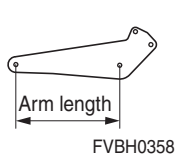
FVBH0312

	Boom length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Bucket digging force* kg (lb/kN)	Arm crowd force* kg (lb/kN)
PC800-8 PC800-8R PC750-7 (SE spec.)	7.1 (23'4")	2.945 (9'8")	11330 (37'2")	7525 (24'8")	7130 (23'5")	4080 (13'5")	6980 (22'11")	11945 (39'2")	12265 (40'3")	43900 (96,780/431)	34800 (76,720/341)
PC850-8 PC850-8R PC800-7	8.04 (26'5")	3.6 (11'10")	11955 (39'3")	8235 (27'0")	8445 (27'8")	5230 (17'2")	8310 (27'3")	13400 (44'0")	13660 (44'10")	37000 (81,570/363)	30400 (67,020/298)
PC850-8 PC850-8R (SE spec.)	7.1 (23'4")	2.9 (9'8")	11330 (37'2")	7525 (24'8")	7130 (23'5")	4080 (13'5")	6980 (22'11")	11945 (39'2")	12265 (40'3")	43900 (96,780/431)	34800 (76,720/341)
3.6 (11'11")		11055 (36'3")	7430 (24'5")	7790 (25'7")	4260 (14'0")	7680 (25'2")	12400 (40'8")	12710 (41'8")	37000 (81,570/363)	30400 (67,020/298)	
PC800-7 (SE spec.)	7.1 (23'4")	2.945 (9'8")	11330 (37'2")	7525 (24'8")	7130 (23'5")	4080 (13'5")	6980 (22'11")	11945 (39'2")	12265 (40'3")	43900 (96,780/431)	34800 (76,720/341)
		3.6 (11'10")	11055 (36'3")	7430 (24'5")	7790 (25'7")	4260 (14'0")	7680 (25'2")	12400 (40'8")	12710 (41'8")	37000 (81,570/363)	30400 (67,020/298)
PC1250-8 PC1250LC-8 PC1250-8R	9.1 (29'10")	3.4 (11'2")	13400 (44'0")	8680 (28'6")	9350 (30'8")	7610 (25'0")	9220 (30'3")	15000 (49'3")	15350 (50'4")	48800 (10,7590/479)	42000 (92,590/412)
		4.5 (14'9")	13490 (44'3")	9000 (29'6")	10440 (34'3")	8490 (27'10")	10340 (33'11")	16000 (52'6")	16340 (53'7")		34400 (75,840/337)
		5.7 (18'8")	13910 (45'8")	9440 (31'0")	11590 (38'0")	9480 (31'1")	11500 (37'9")	17130 (56'2")	17450 (57'3")	39700 (87,520/389)	29200 (64,375/286)
PC1250-7	9.1 (29'10")	3.4 (11'2")	13400 (44")	8680 (28'6")	9350 (30'8")	7610 (25")	9220 (30'3")	15000 (49'3")	15350 (50'4")	48800 (10,7590/479)	42000 (92,590/412)
		4.5 (14'9")	13490 (44'3")	9000 (29'6")	10440 (34'3")	8490 (27'10")	10340 (33'11")	16000 (52'6")	16340 (53'7")		34400 (75,840/337)
		5.7 (18'8")	13910 (45'8")	9440 (31')	11590 (38')	9480 (31'1")	11500 (37'9")	17130 (56'2")	17450 (57'3")	39700 (87,520/389)	29200 (64,375/286)
PC1250-8 PC1250-8R (SP spec.)	7.8 (25'7")	3.4 (11'2")	13000 (42'8")	8450 (27'9")	7900 (25'11")	5025 (16'6")	7745 (25'5")	13670 (44'10")	14070 (46'2")	58100 (128,110/570)	42000 (92,590/412)
PC1250-7 (SP spec.)	7.8 (25'7")	3.4 (11'2")	13000 (42'8")	8450 (27'9")	7900 (25'11")	5025 (16'6")	7740 (25'5")	13670 (44'10")	14070 (46'2")	58100 (128,110/570)	42000 (92,590/412)
PC2000-8	8.7 (28'7")	3.9 (12'10")	13410 (44'0")	8650 (28'5")	9235 (30'4")	2710 (8'11")	9115 (29'11")	15305 (50'3")	15780 (51'9")	71100 (156,750/697)	59800 (131,840/586)

* Using power max. function and ISO rating

Working Ranges and Digging Forces

EXCAVATORS (BACKHOE)



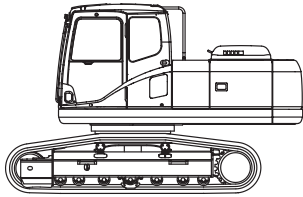
	Boom length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Bucket digging force* ton (US ton/kN)	Arm crowd force* ton (US ton/kN)
PC3000-6	8.6 (28'3")	4.0 (13'1")	14100 (46'3")	8900 (29'2")	7900 (25'11")	3200 (10'6")	7800 (25'7")	15600 (51'2")	16200 (53'2")	86.6 (95.5/850)	81.5 (89.8/800)
PC4000-6	9.75 (32'10")	4.5 (14'9")	15000 (49'3")	9700 (31'10")	8000 (26'3")	3000 (9'10")	7900 (25'11")	16650 (54'8")	17550 (57'7")	117.7 (129.7/1155)	107 (117.9/1050)
PC5500-6	11.0 (36'1")	5.1 (16'9")	15500 (50'10")	10100 (33'2")	8300 (27'3")	3000 (9'10")	8200 (26'11")	18700 (61'4")	19700 (64'8")	147.8 (163.0/1450)	131.5 (145.0/1290)
PC8000-6	11.5 (37'9")	5.5 (18'1")	16985 (55'9")	10985 (36'0")	8315 (27'3")	2000 (6'7")	8215 (26'11")	19920 (65'4")	21000 (68'11")	203.8 (224.6/2000)	183.5 (202.3/1800)

* DIN rating

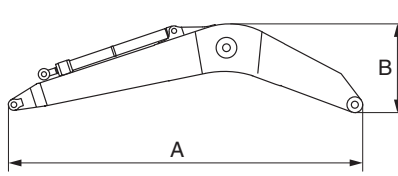
Component Dimensions and Weights

EXCAVATORS (BACKHOE)

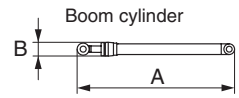
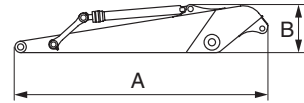
Base machine



Boom with arm cylinder



Arm with bucket cylinder



FVBH0173

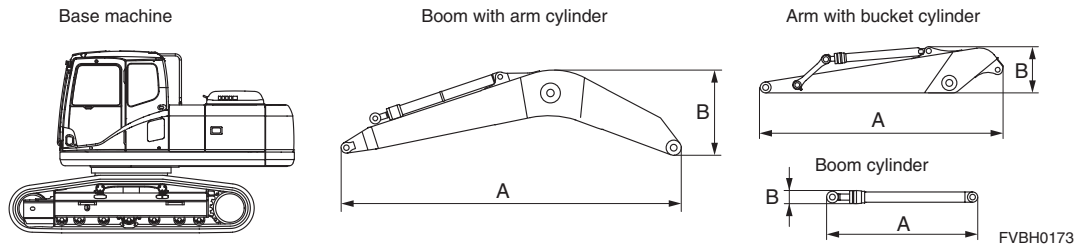
Item			Model	PC200-8	PC200-7	PC220-8	PC220-7
Basic machine	Weight	STD	kg (lb)	15920 (35,100)	15720 (34,660)	18410 (40,590)	18250 (40,230)
		LC		17320 (38,180)	17120 (37,740)	19840 (43,740)	19680 (43,390)
		NLC		—	—	—	—
Boom with arm cylinder	A	mm (ft.in)	5900 (19'4")	5900 (19'4")	6045 (19'10")	6045 (19'10")	
	B	mm (ft.in)	1530 (5'0")	1530 (5'0")	1615 (5'4")	1615 (5'4")	
	Weight	kg (lb)	1410 (3,130)	1410 (3,130)	1830 (4,030)	1830 (4,030)	
Arm with bucket cylinder and linkage	Arm size	m (ft.in)	1.84 (6'0")	1.84 (6'0")	2.0 (6'7")	2.0 (6'7")	
		A	mm (ft.in)	2775 (9'1")	2775 (9'1")	3065 (10'1")	3065 (10'1")
		B	mm (ft.in)	875 (2'10")	875 (2'10")	975 (3'2")	975 (3'2")
	Weight	kg (lb)	911 (2,010)	911 (2,010)	1205 (2,660)	1205 (2,660)	
		Arm size	m (ft.in)	2.41 (7'11")	2.41 (7'11")	2.5 (8'2")	2.5 (8'2")
			A	mm (ft.in)	3430 (11'3")	3430 (11'3")	3625 (11'11")
	B		mm (ft.in)	890 (2'11")	890 (2'11")	925 (3'0")	925 (3'0")
	Weight	kg (lb)	930 (2,050)	930 (2,050)	1235 (2,720)	1235 (2,720)	
		Arm size	m (ft.in)	2.93 (9'7")	2.93 (9'7")	3.05 (10'0")	3.05 (10'0")
			A	mm (ft.in)	3925 (12'11")	3925 (12'11")	4135 (13'7")
	B		mm (ft.in)	770 (2'6")	770 (2'6")	815 (2'8")	815 (2'8")
	Weight	kg (lb)	955 (2,110)	955 (2,110)	1215 (2,680)	1215 (2,680)	
Arm size		m (ft.in)	—	—	—	—	
		A	mm (ft.in)	—	—	—	—
	B	mm (ft.in)	—	—	—	—	
Weight	kg (lb)	—	—	—	—		
	Boom cylinder (Total weight)	A	mm (ft.in)	2005 (6'7")	2005 (6'7")	2015 (6'7")	2015 (6'7")
		B	mm (ft.in)	337 (743)**	337 (743)**	340 (1'1")***	340 (1'1")***
Weight		kg (lb)	—	—	200 × 2 (440 × 2)	200 × 2 (440 × 2)	
Backhoe bucket				See bucket arm combination			

Item			Model	PC228US-3 PC228US-3E0	PC240-8	PC300-7	PC350-7
Basic machine	Weight	STD	kg (lb)	18210 (40,150)	—	24600 (54,230)	25550 (56,330)
		LC		19510 (43,010)	20800 (45,860)	25700 (56,660)	26650 (58,750)
		NLC		—	20500 (45,190)	—	—
Boom with arm cylinder	A	mm (ft.in)	5875 (19'3")	6040 (19'10")	6715 (22'0")	6715 (22'0")	
	B	mm (ft.in)	1450 (4'9")	1555 (5'1")	1625 (5'4")	1625 (5'4")	
	Weight	kg (lb)	1720 (3,790)	2060 (4,540)	2510 (5,530)	2510 (5,530)	
Arm with bucket cylinder and linkage	Arm size	m (ft.in)	2.93 (9'7")	2.0 (6'7")	2.22 (7'3")	3.2 (10'6")	
		A	mm (ft.in)	3905 (12'10")	3050 (10')	3455 (11'4")	4380 (14'4")
		B	mm (ft.in)	725 (2'5")	920 (3')	1150 (3'9")	990 (3'3")
	Weight	kg (lb)	950 (2,090)	1140 (2,510)	1705 (3,760)	1805 (3,980)	
		Arm size	m (ft.in)	—	2.5 (8'2")	2.55 (8'4")	—
			A	mm (ft.in)	—	3600 (11'10")	3735 (12'3")
	B		mm (ft.in)	—	860 (2'10")	1040 (3'5")	—
	Weight	kg (lb)	—	1020 (2,250)	1650 (3,640)	—	
		Arm size	m (ft.in)	—	3.05 (10')	3.2 (10'6")	—
			A	mm (ft.in)	—	4105 (13'6")	4380 (14'4")
	B		mm (ft.in)	—	770 (2'6")	955 (3'2")	—
	Weight	kg (lb)	—	1125 (2,480)	1700 (3,750)	—	
Arm size		m (ft.in)	—	3.5 (11'6")	4.02 (13'2")	—	
		A	mm (ft.in)	—	4560 (15')	5205 (17'1")	—
	B	mm (ft.in)	—	790 (2'7")	945 (3'1")	—	
Weight	kg (lb)	—	1240 (2,730)	1980 (4,365)	—		
	Boom cylinder (Total weight)	A	mm (ft.in)	2005 (6'7")	2040 (6'8")	2215 (7'3")	2215 (7'3")
		B	mm (ft.in)	250 (9.8")	280 (11")	405 (1'4")**	405 (1'4")**
Weight		kg (lb)	180 × 2 (410 × 2)	253 × 2 (560 × 2)	225 × 2 (496 × 2)	225 × 2 (496 × 2)	
Backhoe bucket				See bucket arm combination			

* UK source
** With piping

Component Dimensions and Weights

EXCAVATORS (BACKHOE)



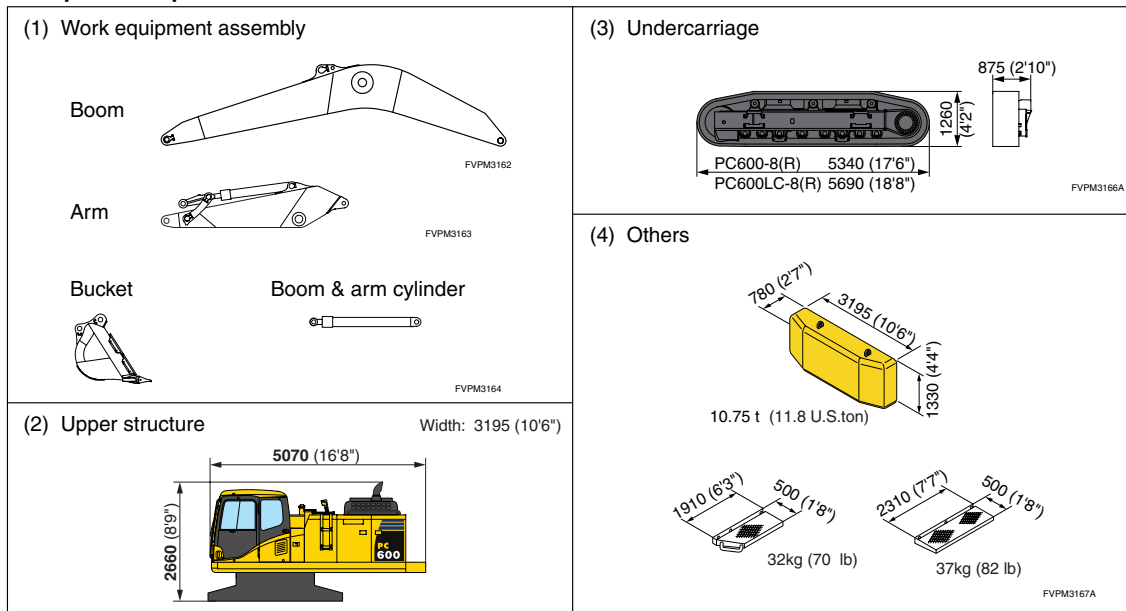
Item			Model		PC300-8	PC350-8	PC400-8 PC400-8R	PC400-7
Basic machine	Weight	STD	kg (lb)	24950 (55,000)	25750 (56,770)	33740 (74,380)	33160 (73,100)	
		LC		26050 (57,430)	26810 (59,110)	34740 (76,590)	34810 (76,740)	
		NLC		—	—	—	—	
Boom with arm cylinder	A	mm (ft.in)	6715 (22'0")	6715 (22'0")	7290 (23'11")	7290 (23'11")		
	B	mm (ft.in)	1625 (5'4")	1625 (5'4")	1695 (5'7")	1695 (5'7")		
	Weight	kg (lb)	2510 (5,530)	2510 (5,530)	4000 (8,820)	4000 (8,820)		
	Arm size	m (ft.in)	2.22 (7'3")	3.2 (10'6")	2.4 (7'10")	2.4 (7'10")		
	A	mm (ft.in)	3455 (11'4")	4380 (14'4")	3705 (12'2")	3705 (12'2")		
	B	mm (ft.in)	1150 (3'9")	990 (3'3")	1080 (3'7")	1080 (3'7")		
	Weight	kg (lb)	1705 (3,760)	1805 (3,980)	2030 (4,480)	2030 (4,480)		
	Arm size	m (ft.in)	2.55 (8'4")	—	2.9 (9'6")	2.9 (9'6")		
	A	mm (ft.in)	3735 (12'3")	—	4215 (13'10")	4215 (13'10")		
	B	mm (ft.in)	1040 (3'5")	—	995 (3'4")	995 (3'4")		
	Weight	kg (lb)	1650 (3,640)	—	2150 (4,740)	2150 (4,740)		
	Arm size	m (ft.in)	3.2 (10'6")	—	3.38 (11'1")	3.38 (11'1")		
	A	mm (ft.in)	4380 (14'4")	—	4615 (15'2")	4615 (15'2")		
	B	mm (ft.in)	955 (3'2")	—	975 (3'2")	975 (3'2")		
	Weight	kg (lb)	1700 (3,750)	—	2200 (4,850)	2200 (4,850)		
	Arm size	m (ft.in)	4.02 (13'2")	—	4.0 (13'1")	4.0 (13'1")		
	A	mm (ft.in)	5205 (17'1")	—	5235 (17'2")	5235 (17'2")		
	B	mm (ft.in)	945 (3'1")	—	965 (3'2")	965 (3'2")		
	Weight	kg (lb)	1980 (4,365)	—	2440 (5,380)	2440 (5,380)		
	A	m (ft.in)	—	—	—	—		
	B	mm (ft.in)	—	—	—	—		
	Weight	mm (ft.in) kg (lb)	— —	— —	— —	— —		
Boom cylinder (Total weight)	A	mm (ft.in)	2215 (7'3")	2215 (7'3")	2445 (8'1")	2445 (8'1")		
	B	mm (ft.in)	405 (1'4")**	405 (1'4")**	225 (8.9")	225 (8.9")		
	Weight	kg (lb)	225 × 2 (496 × 2)	225 × 2 (496 × 2)	400 × 2 (880 × 2)	400 × 2 (880 × 2)		
Backhoe bucket			See bucket arm combination					

Item			Model		PC450-7	PC450-8 PC450-8R		
Basic machine	Weight	STD	kg (lb)	33620 (74,120)	34320 (75,660)			
		LC		34620 (76,320)	35320 (77,870)			
		NLC		—	—			
Boom with arm cylinder	A	mm (ft.in)	7290 (23'11")	7290 (23'11")				
	B	mm (ft.in)	1695 (5'7")	1695 (5'7")				
	Weight	kg (lb)	4200 (9,260)	4200 (9,260)				
	Arm size	m (ft.in)	3.38 (11'1")	3.38 (11'1")				
	A	mm (ft.in)	4705 (15'5")	4705 (15'5")				
	B	mm (ft.in)	1055 (3'6")	1055 (3'6")				
	Weight	kg (lb)	2400 (5,290)	2400 (5,290)				
	Arm size	m (ft.in)	—	—				
	A	mm (ft.in)	—	—				
	B	mm (ft.in)	—	—				
	Weight	kg (lb)	—	—				
	Arm size	m (ft.in)	—	—				
	A	mm (ft.in)	—	—				
	B	mm (ft.in)	—	—				
	Weight	kg (lb)	—	—				
	A	m (ft.in)	—	—				
	B	mm (ft.in)	—	—				
	Weight	mm (ft.in) kg (lb)	— —	— —				
	Arm size	m (ft.in)	—	—				
	A	mm (ft.in)	2445 (8'1")	2445 (8'1")				
	B	mm (ft.in)	225 (8.9")	225 (8.9")				
	Weight	kg (lb)	400 × 2 (880 × 2)	400 × 2 (880 × 2)				
Backhoe bucket			See bucket arm combination					

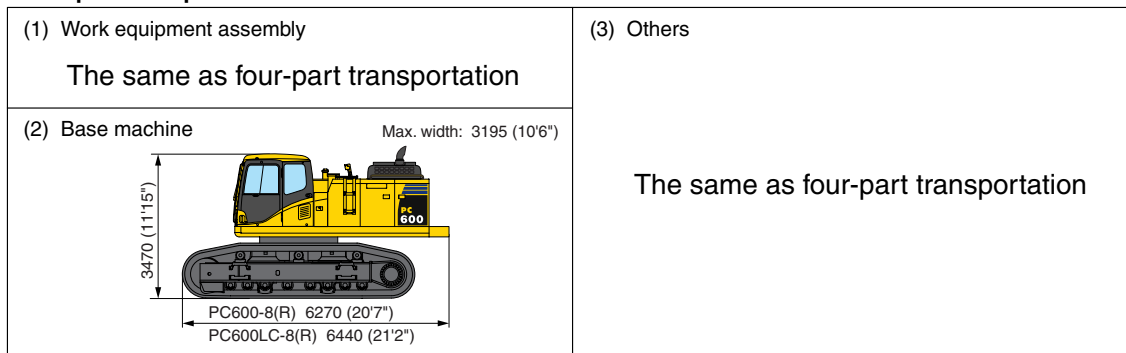
** With piping

PC600 / 600LC-8, PC600/600LC-8R

Four-part transportation



Three-part transportation



* KOMTRAX (optional) with an antenna when mounted

Component Dimensions and Weights

EXCAVATORS (BACKHOE)

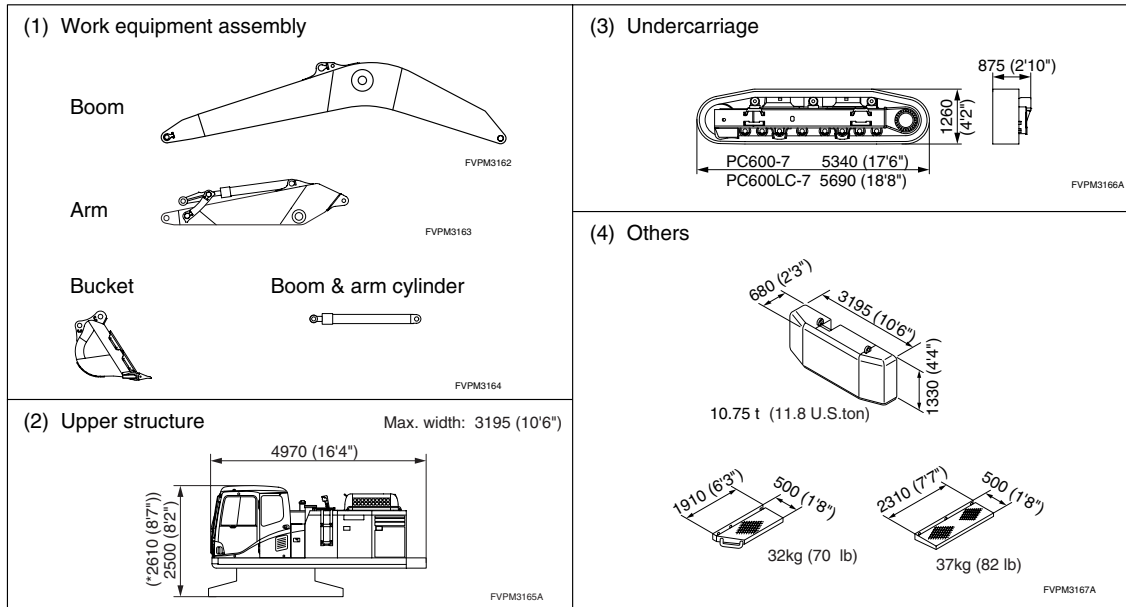
PC600/600LC-8, PC600/600LC-8R

Specification Table for Transportation

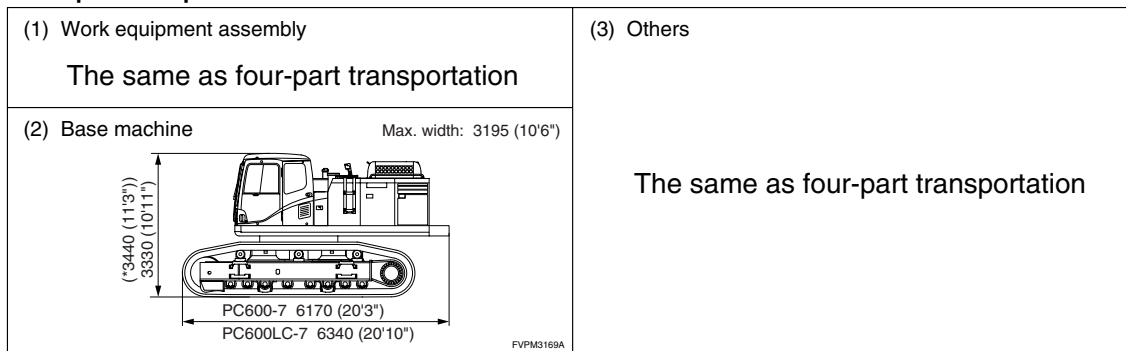
No. of Part for Transportation		Item		Related Specifications		PC600-8(R)	PC600-8(R) (Quarry spec.)	PC600LC-8(R)	PC600-8(R) (SE spec.)	
Four-part	(1)	Work Equipment	Boom	Overall length	mm (fi.in)	7920 (26'0")	7530 (24'8")	7920 (26'0")	6870 (22'6")	
				Overall width	mm (fi.in)	1190 (3'11")	1190 (3'11")	1190 (3'11")	1190 (3'11")	
				Overall height	mm (fi.in)	2040 (6'8")	1960 (6'5")	2040 (6'8")	2090 (6'10")	
				Weight	ton (US. ton)	4.8 (5.3)	4.7 (5.2)	4.8 (5.3)	4.7 (5.0)	
			Arm	Overall length	mm (fi.in)	4870 (16'0")	4870 (16'0")	4870 (16'0")	4230 (13'11")	
				Overall width	mm (fi.in)	480 (1'7")	480 (1'7")	480 (1'7")	480 (1'7")	
				Overall height	mm (fi.in)	1210 (4'0")	1240 (4'1")	1210 (4'0")	1430 (4'8")	
				Weight	ton (US. ton)	3.3 (3.6)	3.3 (3.6)	3.3 (3.6)	3.4 (3.7)	
			Bucket	Overall length	mm (fi.in)	2150 (7'1")	2150 (7'1")	2150 (7'1")	2260 (7'5")	
				Overall width	mm (fi.in)	1780 (5'10")	1920 (6'4")	1780 (5'10")	2120 (6'11")	
				Overall height	mm (fi.in)	1780 (5'10")	1780 (5'10")	1780 (5'10")	1800 (5'11")	
				Weight	ton (US. ton)	2.4 (2.6)	3.1 (3.4)	2.4 (2.6)	3.4 (3.7)	
		Cylinder	Overall length	mm (fi.in)	3110 (10'2")	3110 (10'2")	3110 (10'2")	3110 (10'2")		
			Weight	ton (US. ton)	1.7 (1.9)	1.7 (1.9)	1.7 (1.9)	1.7 (1.9)		
		(2)	Upper Structure	Overall length	mm (fi.in)	5070 (16'7")	5070 (16'7")	5070 (16'7")	5070 (16'7")	
				Overall width	mm (fi.in)	3195 (10'6")	3195 (10'6")	3195 (10'6")	3195 (10'6")	
	Overall height			mm (fi.in)	2660 (8'8")	2660 (8'8")	2660 (8'8")	2660 (8'8")		
	Weight			ton (US. ton)	17.8 (19.6)	17.8 (19.6)	17.8 (19.6)	17.8 (19.6)		
	Undercarriage		Overall length	mm (fi.in)	5340 (17'6")	5340 (17'6")	5690 (18'8")	5340 (17'6")		
			Overall width	mm (fi.in)	875 (2'11")	875 (2'11")	875 (2'11")	875 (2'11")		
			Overall height	mm (fi.in)	1260 (4'2")	1260 (4'2")	1260 (4'2")	1260 (4'2")		
			Weight	ton (US. ton)	16.3 (18.0)	16.3 (18.0)	17.3 (19.1)	16.3 (18.0)		
	(4)		Others (Counterweight)	Overall length	mm (fi.in)	3195 (10'6")	3195 (10'6")	3195 (10'6")	3195 (10'6")	
				Overall width	mm (fi.in)	780 (2'7")	780 (2'7")	780 (2'7")	780 (2'7")	
				Overall height	mm (fi.in)	1330 (4'4")	1330 (4'4")	1330 (4'4")	1330 (4'4")	
				Weight	ton (US. ton)	11.0 (12.1)	11.0 (12.1)	11.0 (12.1)	11.0 (12.1)	
	Three-part	(1)	Work Equipment	The same as four-part transportation						
		(2)	Base Machine	Overall length	mm (fi.in)	6270 (20'7")	6280 (20'7")	6440 (21'2")	6270 (20'7")	
Overall width				mm (fi.in)	3195 (10'6")	3195 (10'6")	3195 (10'6")	3195 (10'6")		
Overall height				mm (fi.in)	3470 (11'5")	3430 (11'3")	3470 (11'5")	3470 (11'5")		
Weight				ton (US. ton)	34.1 (37.6)	34.5 (38.0)	35.1 (38.7)	34.1 (37.6)		
(3)		Others (Counterweight)	The same as four-part transportation							

PC600 / 600LC-7

Four-part transportation



Three-part transportation



* KOMTRAX (optional) with an antenna when mounted

Component Dimensions and Weights

EXCAVATORS (BACKHOE)

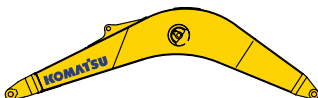



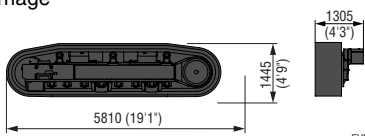
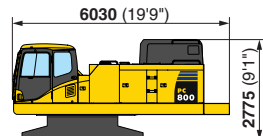
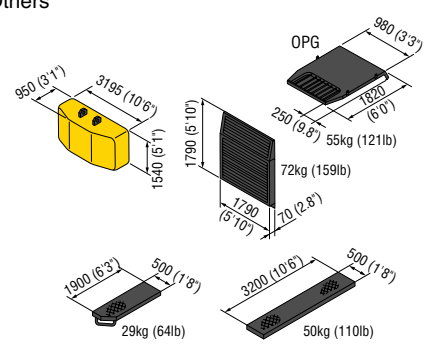
PC600/600LC-7

Specification Table for Transportation

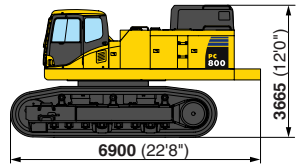
No. of Part for Transportation		Item		Related Specifications		PC600-7	PC600-7 (Quarry spec.)	PC600LC-7	PC600-7 (SE spec.)	
Four-part	(1)	Work Equipment	Boom	Overall length	mm (fi.in)	7920 (26'0")	7530 (24'8")	7920 (26'0")	6870 (22'6")	
				Overall width	mm (fi.in)	1190 (3'11")	1190 (3'11")	1190 (3'11")	1190 (3'11")	
				Overall height	mm (fi.in)	2040 (6'8")	1960 (6'5")	2040 (6'8")	2090 (6'10")	
				Weight	ton (US. ton)	4.8 (5.3)	4.7 (5.2)	4.8 (5.3)	4.7 (5.0)	
			Arm	Overall length	mm (fi.in)	4870 (16'0")	4870 (16'0")	4870 (16'0")	4230 (13'11")	
				Overall width	mm (fi.in)	480 (1'7")	480 (1'7")	480 (1'7")	480 (1'7")	
				Overall height	mm (fi.in)	1210 (4'0")	1240 (4'1")	1210 (4'0")	1430 (4'8")	
				Weight	ton (US. ton)	3.2 (3.5)	3.3 (3.6)	3.2 (3.5)	3.4 (3.7)	
		Bucket	Overall length	mm (fi.in)	2040 (6'8")	2040 (6'8")	2040 (6'8")	2260 (7'5")		
			Overall width	mm (fi.in)	1790 (5'10")	1870 (6'2")	1790 (5'10")	2120 (6'11")		
			Overall height	mm (fi.in)	1870 (6'2")	1880 (6'2")	1870 (6'2")	1800 (5'11")		
			Weight	ton (US. ton)	2.5 (2.8)	3.0 (3.3)	2.5 (2.8)	3.4 (3.7)		
		Cylinder	Overall length	mm (fi.in)	3110 (10'2")	3110 (10'2")	3110 (10'2")	3110 (10'2")		
			Weight	ton (US. ton)	1.8 (2.0)	1.8 (2.0)	1.8 (2.0)	1.8 (2.0)		
		(2)	Upper Structure	Overall length	mm (fi.in)	4970 (16'4")	4970 (16'4")	4970 (16'4")	4970 (16'4")	
				Overall width	mm (fi.in)	3195 (10'6")	3195 (10'6")	3195 (10'6")	3195 (10'6")	
	Overall height			mm (fi.in)	2500 (8'2")	2500 (8'2")	2500 (8'2")	2500 (8'2")		
	Weight			ton (US. ton)	16.8 (18.5)	16.9 (18.6)	16.8 (18.5)	16.8 (18.5)		
	(3)	Undercarriage	Overall length	mm (fi.in)	5340 (17'6")	5370 (17'7")	5690 (18'8")	5340 (17'6")		
			Overall width	mm (fi.in)	875 (2'11")	875 (2'11")	875 (2'11")	875 (2'11")		
			Overall height	mm (fi.in)	1260 (4'2")	1290 (4'3")	1260 (4'2")	1260 (4'2")		
			Weight	ton (US. ton)	16.4 (18.1)	17.4 (19.2)	17.4 (19.2)	16.4 (18.1)		
	(4)	Others (Counterweight)	Overall length	mm (fi.in)	3195 (10'6")	3195 (10'6")	3195 (10'6")	3195 (10'6")		
			Overall width	mm (fi.in)	680 (2'3")	680 (2'3")	680 (2'3")	680 (2'3")		
			Overall height	mm (fi.in)	1330 (4'4")	1330 (4'4")	1330 (4'4")	1330 (4'4")		
			Weight	ton (US. ton)	10.75 (11.8)	10.75 (11.8)	10.75 (11.8)	10.75 (11.8)		
	Three-part	(1)	Work Equipment	The same as four-part transportation						
		(2)	Base Machine	Overall length	mm (fi.in)	6170 (20'3")	6180 (20'4")	6340 (20'10")	6170 (20'3")	
Overall width				mm (fi.in)	3195 (10'6")	3195 (10'6")	3195 (10'6")	3195 (10'6")		
Overall height				mm (fi.in)	3330 (10'11")	3340 (11'0")	3330 (10'11")	3330 (10'11")		
Weight				ton (US. ton)	33.2 (36.6)	34.3 (37.8)	34.2 (37.7)	33.2 (36.6)		
(3)		Others (Counterweight)	The same as four-part transportation							

PC800/850-8, PC800/850-8R

Four-part transportation

<p>(1) Work equipment assembly</p> <p>Boom  FVPM3075</p> <p>Arm  FVPM2405</p> <p>Bucket  FVPM3064</p> <p>Boom, arm cylinder  FVPM3064</p>	<p>(3) Undercarriage  FVPM3076</p>
<p>(2) Upper structure Width: 3290 (10'10")</p> 	<p>(4) Others</p>  <p>OPG (PC850/SE spec. only)</p>

Three-part transportation

<p>(1) Work equipment assembly</p> <p>The same as four-part transportation</p>	<p>(3) Others</p> <p>The same as four-part transportation</p>
<p>(2) Base machine</p> 	

* KOMTRAX (optional) with an antenna when mounted

Component Dimensions and Weights

EXCAVATORS (BACKHOE)

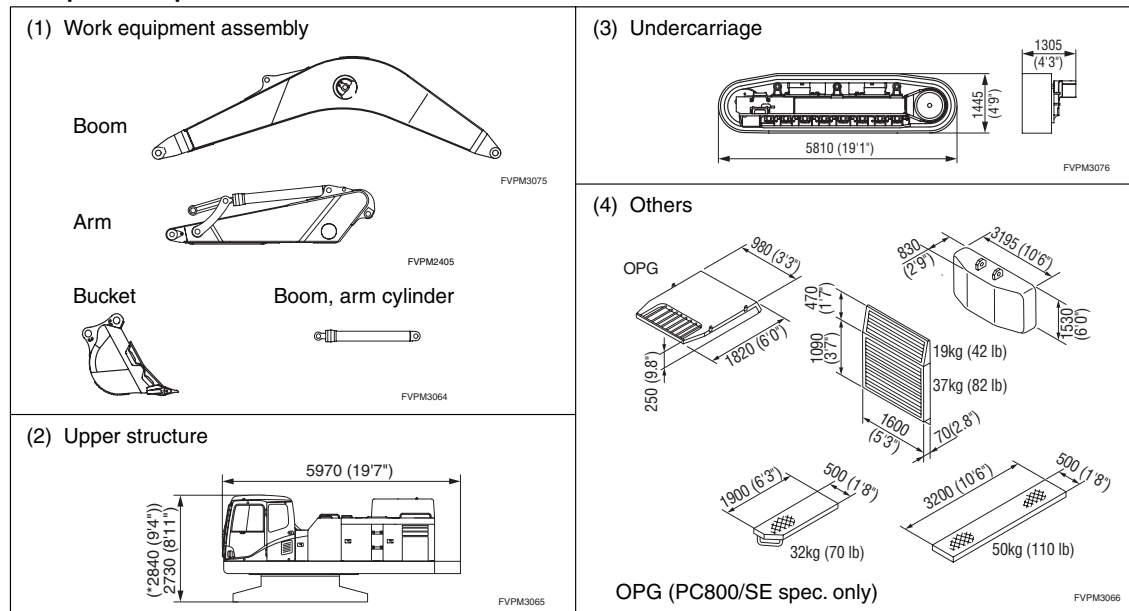
PC800/850-8, PC800/850-8R

Specification Table for Transportation

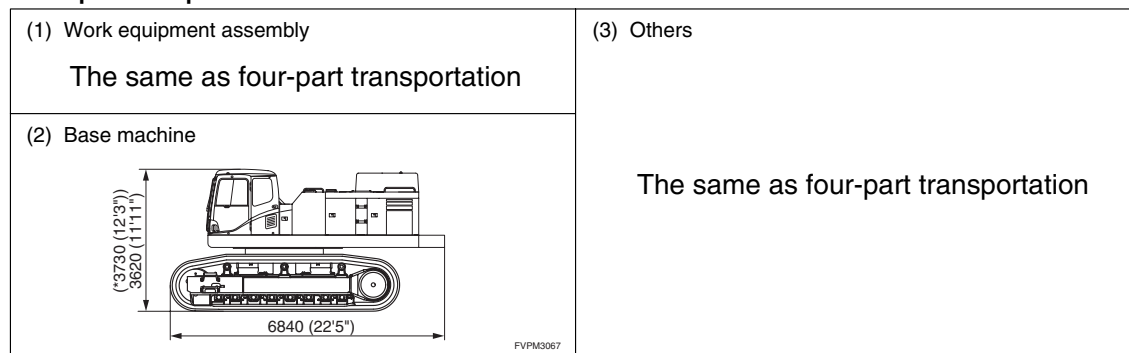
No. of Part for Transportation		Item	Related Specifications	PC800-8	PC800-8 (SE spec.)	PC850-8	PC850-8 (SE spec.)		
Four-part	(1)	Work Equipment	Boom	Overall length	mm (fi.in)	8530 (28'0")	7430 (24'5")	8380 (27'6")	7430 (24'5")
				Overall width	mm (fi.in)	1500 (4'11")	1500 (4'11")	1500 (4'11")	1500 (4'11")
				Overall height	mm (fi.in)	2800 (9'2")	2695 (8'10")	2695 (8'10")	2695 (8'10")
				Weight	ton (US. ton)	7.9 (8.7)	7.3 (8.0)	8.1 (8.9)	7.3 (8.0)
			Arm	Overall length	mm (fi.in)	5120 (16'10")	4080 (13'5")	4770 (15'8")	4080 (13'5")
				Overall width	mm (fi.in)	750 (2'6")	750 (2'6")	750 (2'6")	750 (2'6")
				Overall height	mm (fi.in)	1345 (4'5")	1695 (5'7")	1420 (4'8")	1695 (5'7")
				Weight	ton (US. ton)	4.0 (4.4)	4.9 (5.4)	4.5 (5.0)	4.9 (5.4)
		Bucket	Overall length	mm (fi.in)	2365 (7'9")	2200 (7'3")	2390 (7'10")	2200 (7'3")	
			Overall width	mm (fi.in)	1845 (6'1")	2105 (6'11")	1870 (6'2")	2255 (7'5")	
			Overall height	mm (fi.in)	1850 (6'1")	1950 (6'5")	1880 (6'2")	1950 (6'5")	
			Weight	ton (US. ton)	2.9 (3.2)	3.4 (3.7)	3.8 (4.2)	3.9 (4.3)	
		Cylinder	Overall length	mm (fi.in)	3580 (11'9")	3235 (10'7")	3235 (10'7")	3235 (10'7")	
			Weight	ton (US. ton)	2.3 (2.5)	2.5 (2.8)	2.3 (2.5)	2.5 (2.8)	
		(2)	Upper Structure	Overall length	mm (fi.in)	6040 (19'10")	6040 (19'10")	6040 (19'10")	6040 (19'10")
				Overall width	mm (fi.in)	3290 (10'10")	3290 (10'10")	3290 (10'10")	3290 (10'10")
	Overall height			mm (fi.in)	2835 (9'4")	2835 (9'4")	2835 (9'4")	2835 (9'4")	
	Weight			ton (US. ton)	26.3 (29.0)	26.3 (29.0)	26.4 (29.1)	26.4 (29.1)	
	(3)	Undercarriage	Overall length	mm (fi.in)	5810 (19'1")	5810 (19'1")	5810 (19'1")	5810 (19'1")	
			Overall width	mm (fi.in)	1380 (4'6")	1380 (4'6")	1400 (4'7")	1400 (4'7")	
			Overall height	mm (fi.in)	1445 (4'9")	1445 (4'9")	1445 (4'9")	1445 (4'9")	
			Weight	ton (US. ton)	21.2 (23.4)	21.2 (23.4)	21.7 (23.9)	21.7 (23.9)	
	(4)	Others (Counterweight)	Overall length	mm (fi.in)	3195 (10'6")	3195 (10'6")	3195 (10'6")	3195 (10'6")	
			Overall width	mm (fi.in)	950 (3'1")	950 (3'1")	950 (3'1")	950 (3'1")	
			Overall height	mm (fi.in)	1540 (5'1")	1540 (5'1")	1540 (5'1")	1540 (5'1")	
			Weight	ton (US. ton)	10.1 (11.1)	10.1 (11.1)	12.2 (13.4)	12.2 (13.4)	
	Three-part	(1)	Work Equipment	The same as four-part transportation					
		(2)	Base Machine	Overall length	mm (fi.in)	6900 (22'8")	6900 (22'8")	6900 (22'8")	6900 (22'8")
Overall width				mm (fi.in)	3565 (11'8")	3565 (11'8")	3585 (11'9")	3585 (11'9")	
Overall height				mm (fi.in)	3720 (12'2")	3720 (12'2")	3720 (12'2")	3720 (12'2")	
Weight				ton (US. ton)	47.4 (52.2)	47.4 (52.2)	48.9 (53.9)	48.1 (53.0)	
(3)		Others (Counterweight)	The same as four-part transportation						

PC750/800-7

Four-part transportation



Three-part transportation



* KOMTRAX (optional) with an antenna when mounted

Component Dimensions and Weights

EXCAVATORS (BACKHOE)

PC750-7, PC750-7 (SE spec.)

Four-part transportation

		Length mm (ft.in)	Width mm (ft.in)	Height mm (ft.in)	Weight ton (US ton)	
1. Work equipment.						
Backhoe	Boom	PC750-7	8505 (27'11")	1500 (4'11")	2610 (8'7")	7.4 (8.2)
		PC750-7 (SE spec.)	7405 (24'4")	1500 (4'11")	2465 (8'1")	6.8 (7.6)
	Arm	PC750-7	5105 (16'9")	750 (2'6")	1325 (4'4")	4.0 (4.4)
		PC750-7 (SE spec.)	4075 (13'4")	755 (2'6")	1695 (5'7")	4.9 (5.4)
	Bucket	PC750-7	2365 (7'9")	1845 (6'1")	1850 (6'1")	3.0 (3.3)
		PC750-7 (SE spec.)	2200 (7'3")	2105 (6'11")	1950 (6'5")	3.4 (3.7)
	Boom cylinder	PC750-7/PC750 (SE spec.)	3235 (10'7")	—	—	0.79 × 2 (0.87 × 2)
	Arm cylinder	PC750-7	3580 (11'9")	—	—	0.88 (0.97)
PC750-7 (SE spec.)		2595 (8'6")	—	—	0.5 × 2 (0.55 × 1)	
2. Upper structure		5970 (19'7")	3195 (10'6")	2730 (8'11")*	24.8 (27.3)	
3. Undercarriage		PC750-7/PC750-7 (SE spec.)	5810 (19'1")	1305 (4'3")	1445 (4'9")	20.7 (22.8)
4. Other (counterweight, etc.)		—	—	—	10.0 (11.0)	

* With KOMTRAX (optional) antenna: 2840 (9' 4")

Three-part transportation

		Length mm (ft.in)	Width mm (ft.in)	Height mm (ft.in)	Weight ton (US ton)
1. Work equipment		The same as four-part structure			
2. Base machine	PC750-7/PC750-7 (SE spec.)	6840 (22'5")	3390 (11'1")	3620 (11'1")	45.5 (50.2)
3. Other		The same as four-part structure			

* With KOMTRAX (optional) antenna: 3730 (12' 3")

PC800-7, PC800-7 (SE spec.)

Four-part transportation

		Length mm (ft.in)	Width mm (ft.in)	Height mm (ft.in)	Weight ton (US ton)	
1. Work equipment						
Backhoe	Boom	PC800-7	8345 (27'5")	1500 (4'11")	2600 (8'6")	7.7 (8.5)
		PC800-7 (SE spec.)	7405 (24'4")	1500 (4'11")	2465 (8'1")	6.9 (7.6)
	Arm	PC800-7	4800 (15'9")	750 (2'6")	1410 (4'8")	4.5 (5.0)
		PC800-7 (SE spec.)	4075 (13'4")	755 (2'6")	1695 (5'7")	4.9 (5.4)
	Bucket	PC800-7	2390 (7'10")	1870 (6'2")	1850 (6'1")	3.5 (3.9)
		PC800-7 (SE spec.)	2200 (7'2")	2255 (7'5")	1950 (6'5")	3.9 (4.3)
	Boom cylinder	PC800-7/PC800-7 (SE spec.)	3235 (10'7")	—	—	0.79 × 2 (0.87 × 2)
	Arm cylinder	PC800-7/PC800-7 (SE spec.)	2595 (8'6")	—	—	0.5 × 2 (0.55 × 1)
2. Upper structure		5970 (19'7")	3195 (10'6")	2730 (8'11")	24.9 (27.4)	
3. Undercarriage		5810 (19'1")	1305 (4'3")	1445 (4'9")	21.2 (23.4)	
4. Other (counterweight, etc.)		—	—	—	12.2 (13.4)	


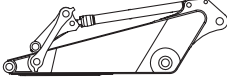
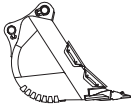
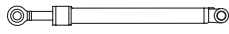
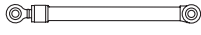
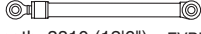
Three-part transportation

		Length mm (ft.in)	Width mm (ft.in)	Height mm (ft.in)	Weight ton (US ton)
1. Work equipment		The same as four-part structure			
2. Base machine		6840 (22'5")	3390 (11'1")	3620 (11'1")	46.1 (50.8)
3. Other		The same as four-part structure			

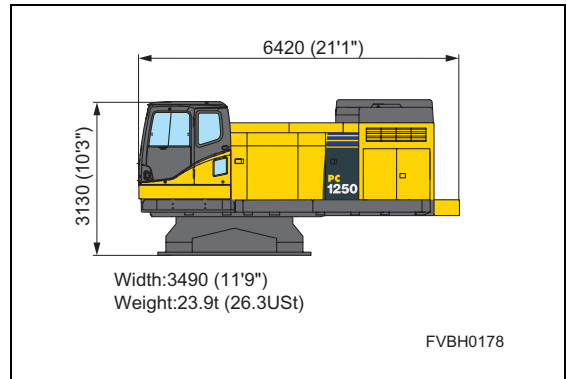
PC1250/1250 (SP spec.)/1250LC-8, PC1250/1250-8R (SP spec.)

1. Work equipment ass'y (Backhoe)

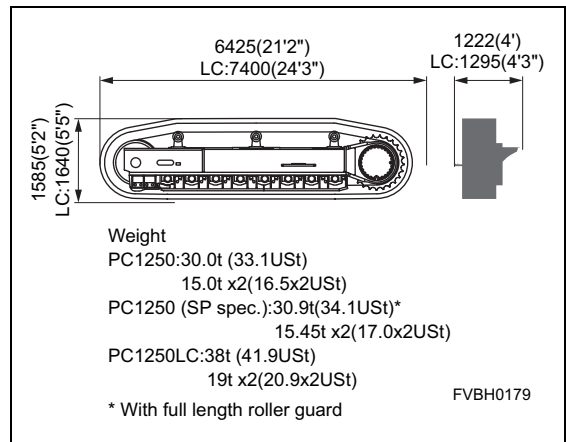
PC1250: 25.3t (27.9 US.ton)
PC1250 (SP spec.): 27.7t (30.5 US.ton)

<p>Boom</p>  <p>PC1250: 11.2t (12.3USt) 9475x2894x1474 (31'1")x(9'6")x(4'10") PC1250 (SP spec.): 11.1t (12.2USt) 8170x3095x1474 (26'10")x(10'2")x(4'10") FVBH0174</p>
<p>Arm</p>  <p>PC1250: 5.9t (6.5USt) 4895x1626x890 (16'1")x(5'4")x(2'11") :6.2t (6.8USt) (Heavy-duty version) PC1250 (SP spec.): 6.4t (7.1USt) 4914x1683x890 (16'1")x(5'6")x(2'11") FVBH0175</p>
<p>Bucket</p>  <p>PC1250: 4.3t (4.7USt) 2700x2100x2050 (8'10")x(6'11")x(6'9") :5.5t (2.64USt) 2580x2276x2250 (6'1USt) (8'6")x(7'6")x(7'5") (Heavy-duty version) PC1250 (SP spec.): 5.9t (6.5USt) 2527x2420x2520 (8'3")x(7'11")x(8'3") FVBH0176</p>
<p>Arm cylinder</p>  <p>1.5t (1.7USt) Length: 3950 (13'0")</p> <p>Boom cylinder</p>  <p>2.4t [1.2tx2] (2.64USt) (1.32UStx2)</p>  <p>Length: 3810 (12'6") FVBH0177</p>

2. Upper structure

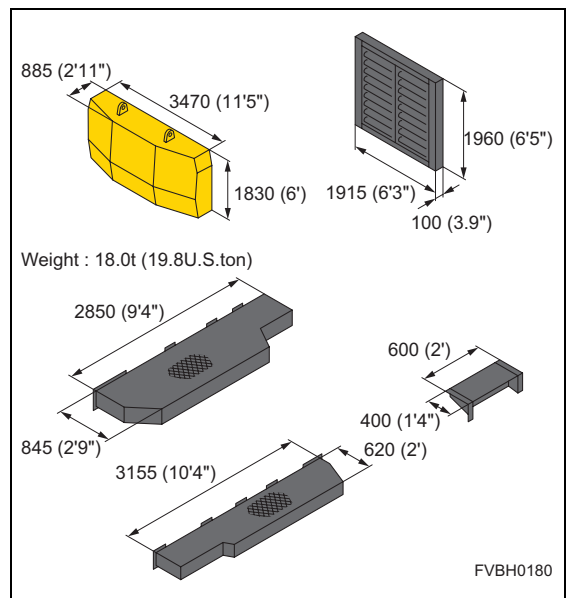


3. Undercarriage



4. Others

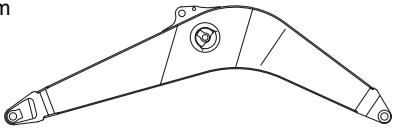
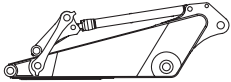
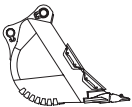

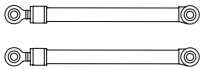
18.4t (20.3 US.ton)



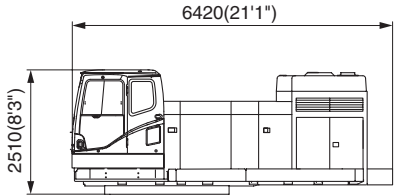
PC1250/1250-7 (SP spec.)

1. Work equipment ass'y (Backhoe)

PC1250: 25.1t (27.7 US.ton)
PC1250 (SP spec.): 27.0t (29.8 US.ton)

<p>Boom</p>  <p>PC1250: 11.0t (12.1USt) 9475x2894x1474 (31'1")x(9'6")x(4'10") PC1250 (SP spec.): 10.9t (12.0USt) 8170x3095x1474 (26'10")x(10'2")x(4'10")</p> <p align="right">FVBH0174</p>
<p>Arm</p>  <p>PC1250: 5.9t (6.5USt) 4895x1626x890 (16'1")x(5'4")x(2'11") PC1250 (SP spec.): 6.3t (6.9USt) 4914x1683x890 (16'1")x(5'6")x(2'11")</p> <p align="right">FVBH0175</p>
<p>Bucket</p>  <p>PC1250: 4.3t (4.7USt) 2700x2100x2050 (8'10")x(6'11")x(6'9") PC1250 (SP spec.): 5.9t (6.5USt) 2527x2420x2520 (8'3")x(7'11")x(8'3")</p> <p align="right">FVBH0176</p>
<p>Arm cylinder</p>  <p>1.5t (1.7USt)</p>
<p>Boom cylinder</p>  <p>2.4t [1.2x2] (2.64USt) (1.32UStx2)</p> <p align="right">FVBH0177</p>

2. Upper structure



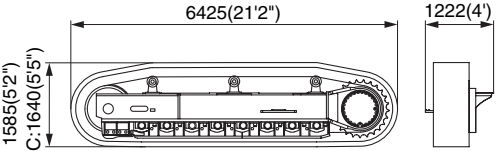
6420(21'1")

2510(8'3")

Width: 3490 (11'9")
Weight: 23.9t (26.3USt)

FVBH0178

3. Undercarriage



6425(21'2")

1585(5'2")
LC: 1640(5'5")

1222(4')

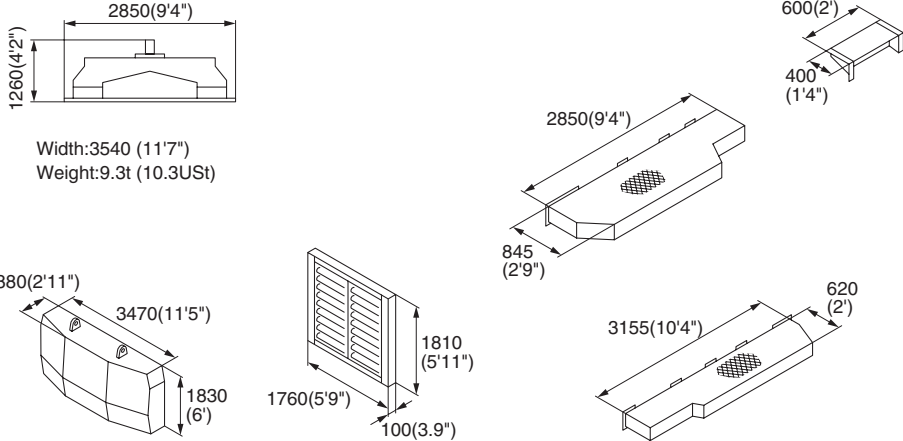
Weight
PC1250: 30.0t (33.1USt)
15.0t x2 (16.5x2USt)
PC1250 (SP spec.): 30.9t (34.1USt)*
15.45t x2 (17.0x2USt)

* With full length roller guard

FVBH0179

4. Others

27.7t (30.5 US.ton)



2850(9'4")

1260(4'2")

Width: 3540 (11'7")
Weight: 9.3t (10.3USt)

880(2'11")

3470(11'5")

1830(6')

18.0t (19.8USt)

1760(5'9")

1810(5'11")

100(3.9")

2850(9'4")

845(2'9")

600(2')

400(1'4")

3155(10'4")

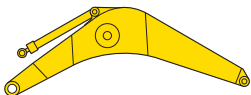
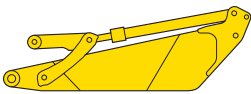

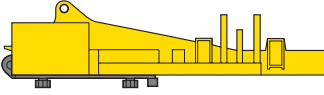
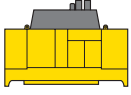
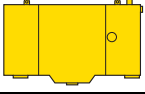
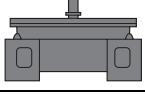
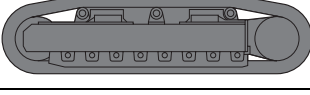




620(2')

FVBH0180

Component Dimensions and Weights

EXCAVATORS (BACKHOE)

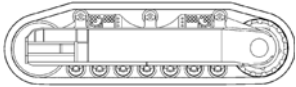
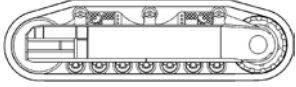

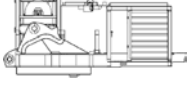
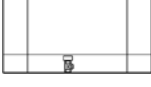

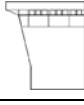
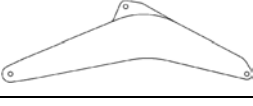
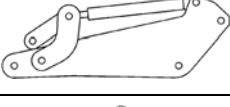

PC2000-8

Unit name	Dimension	Length mm (ft.in.)	Width mm (ft.in.)	Height mm (ft.in.)	Weight ton (U.S. ton)
1. Boom		9170 (30'1")	2065 (6'9")	3195 (10'6")	20.9 (23.0)
2. Arm		5495 (18'0")	1605 (5'3")	2055 (6'9")	12.9 (14.2)
3. Bucket		3540 (11'7")	2790 (9'2")	2320 (7'7")	9.7 (10.7)
4. Revolving frame		7575 (24'10")	3180 (10'5")	2640 (8'8")	26.5 (29.2)
5. Power module		2515 (17'1")	2455 (8'1")	3195 (10'6")	16.1 (17.7)
6. Fuel tank		3100 (10'2")	875 (2'10")	2070 (6'10")	2.4 (2.65)
7. Center frame		3815 (12'6")	3190 (10'6")	2210 (7'3")	18.0 (19.8)
8. Undercarriage		7435 (24'5")	1720 (5'8")	1920 (6'4")	26.0 × 2 (28.1 × 2)
9. Cab base		3660 (12'0")	2505 (8'3")	2700 (8'10")	2.5 (2.8)
10. Operator cab		2885 (9'6")	1880 (6'2")	2520 (8'3")	1.8 (1.98)
11. Counterweight		6420 (21'1")	1115 (3'8")	1505 (4'11")	24.5 (27.0)
12. Hydraulic tank		1860 (6'1")	1115 (3'8")	2125 (7'0")	3.5 (3.86)
13. Cylinders and Others					9.7 (10.7)

Component Dimensions and Weights

EXCAVATORS (BACKHOE)

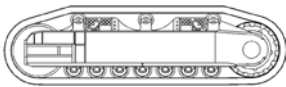
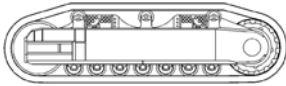
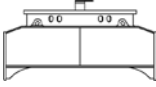
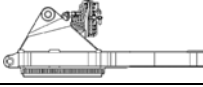
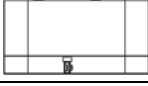
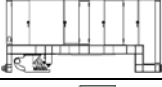




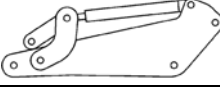

PC3000-6

Unit name	Dimension	Length mm (ft.in.)	Width mm (ft.in.)	Height mm (ft.in.)	Weight ton (U.S. ton)
Left Crawler Side Frame with 800 mm (31.5") Tracks		7930 (26'0")	1600 (5'3")	2210 (7'3")	32.0 (35.3)
Right Crawler Side Frame with 800 mm (31.5") Tracks		7930 (26'0")	1600 (5'3")	2210 (7'3")	32.0 (35.3)
Carbody with Rotary Joint		4020 (13'2")	3630 (11'11")	2130 (7'0")	19.5 (21.5)
Superstructure Platform with Machine House incl. 1 Diesel Engine, Hydraulic Tank and Hydraulic Cooler		7950 (26'1")	5250 (17'3")	3600 (11'10")	70 (77.2)
Counterweight		5050 (16'7")	1050 (3'5")	2840 (9'4")	30.5 (33.6)
Fuel Tank		2220 (7'3")	1600 (5'3")	2790 (9'2")	2.3 (2.5)
Cab Base		2520 (8'3")	2300 (7'7")	2800 (9'2")	2.7 (3.0)
Boom 8.6 m (28'3")		9200 (30'2")	2450 (8'0")	3100 (10'2")	23.1 (25.5)
Arm 4.0 m (13'1") with 2 cylinders, link and rod		5670 (18'7")	2010 (6'7")	2100 (6'11")	17.7 (19.5)
Backhoe Bucket 15 m ³ (19.6 cu.yd) SAE incl. Standard Wear Package WP 2		3580 (11'9")	3530 (11'7")	3120 (10'3")	16.1 (17.7)
Case with Accessories		3500 (11'6")	2400 (7'10")	3150 (10'4")	3.8 (4.2)
Case with Accessories		5800 (19'0")	2500 (8'2")	2000 (6'7")	4 (4.4)
Case with Accessories		4900 (16'1")	1300 (4'3")	1540 (5'1")	5.3 (5.8)
Case with Accessories		4900 (16'1")	1300 (4'3")	1540 (5'1")	7 (7.7)

Component Dimensions and Weights

EXCAVATORS (BACKHOE)

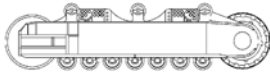
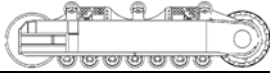



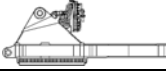





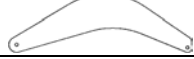
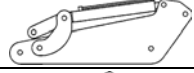

PC4000-6

Unit name	Dimension	Length mm (ft.in.)	Width mm (ft.in.)	Height mm (ft.in.)	Weight ton (U.S. ton)
Left Crawler Side Frame with 1200 mm (47.2") Tracks		8850 (29'0")	2700 (8'10")	2500 (8'2")	58.0 (63.9)
Right Crawler Side Frame with 1200 mm (47.2") Tracks		8850 (29'0")	2700 (8'10")	2500 (8'2")	58.0 (63.9)
Carbody with Rotary Joint		4670 (15'4")	4070 (13'4")	2270 (7'5")	30.1 (33.2)
Superstructure Platform		8430 (27'8")	4435 (14'7")	3930 (12'11")	50.3 (55.4)
Counterweight		6100 (20'0")	950 (3'1")	3320 (10'11")	37 (40.8)
Main Machinery House incl. 1 Diesel Engine		6500 (21'4")	2750 (9'0")	3250 (10'8")	30.4 (33.5)
Fuel Tank		2390 (7'10")	2060 (6'9")	3280 (10'9")	3.5 (3.9)
Hydraulic Tank		2400 (7'10")	1370 (4'6")	3300 (10'10")	3.4 (3.7)
Cab Base		2400 (7'10")	2060 (6'9")	3020 (9'11")	3.8 (4.2)
Boom 9.75 m (32')		10450 (34'3")	2700 (8'10")	3700 (12'2")	34.1 (37.6)
Arm 4.5 m (14'9") with 2 cylinders, linkage and rod		6300 (20'8")	1900 (6'3")	2500 (8'2")	25.2 (27.8)
Backhoe Bucket 22 m ³ (28.8 cu.yd) SAE incl. Standard Wear Package WP 2		3800 (12'6")	4000 (13'1")	3600 (11'10")	23.4 (25.9)
Case with Oil Cooler		5770 (18'11")	2490 (8'2")	1980 (6'6")	3.4 (3.7)
Case with Driver's Cab and with intermediate base		3890 (12'9")	3290 (10'10")	3280 (10'9")	5 (5.5)
Case with Accessories		5800 (19'0")	2500 (8'2")	2100 (6'11")	4 (4.4)
Case with Accessories		5870 (19'3")	1290 (4'3")	1480 (4'10")	6 (6.6)
Case with Accessories		5870 (19'3")	1290 (4'3")	1480 (4'10")	9 (9.9)

Component Dimensions and Weights

EXCAVATORS (BACKHOE)

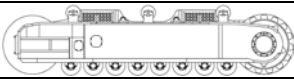
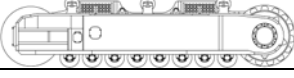


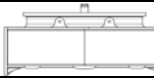
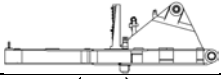






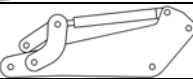

PC5500-6

Unit name	Dimension	Length mm (ft.in.)	Width mm (ft.in.)	Height mm (ft.in.)	Weight ton (U.S. ton)
Left Crawler Side Frame without Tracks		9300 (30'6")	1500 (4'11")	2300 (7'7")	40 (44.1)
Right Crawler Side Frame without Tracks		9300 (30'6")	1500 (4'11")	2300 (7'7")	40 (44.1)
6 × 1 Chain with 12 Track Shoes 1350 mm (53") each 8.55 t (9.4 US ton)		6000 (19'8")	1350 (4'5")	400 (1'4")	51.3 (56.5)
2 × 1 Chain with 10 Track Shoes 1350 mm (53") each 7.1 t (7.8 US ton)		5050 (16'7")	1350 (4'5")	400 (1'4")	14.2 (15.7)
Carbody with Rotary Joint		5130 (16'10")	4690 (15'7")	2380 (7'10")	45 (49.6)
Superstructure Platform		9650 (31'7")	4510 (14'10")	4400 (14'5")	74.7 (82.3)
Counterweight		6600 (21'8")	1140 (3'9")	3320 (10'11")	42 (46.3)
Main Machinery House incl. 2 Diesel Engines		7100 (23'4")	4050 (13'3")	3300 (10'10")	43 (47.4)
Fuel Tank		2800 (9'2")	2250 (7'5")	3300 (10'10")	4.5 (5.0)
Hydraulic Tank		2390 (7'10")	1300 (4'3")	3300 (10'10")	3.4 (3.7)
Cab Base		2200 (7'3")	1950 (6'5")	3050 (10'0")	3.8 (4.2)
Boom 11 m (36'1")		11750 (38'7")	3300 (10'10")	4450 (14'7")	51.1 (56.3)
Arm 5.1 m (18'1")		7150 (23'6")	2050 (6'9")	2700 (8'10")	32.4 (35.7)
Backhoe 29 m ³ (37.9 cu.yd) SAE incl. Standard Wear Package WP 2		4250 (13'11")	4650 (15'3")	3800 (12'6")	32.7 (52.6)
Case with Oil Cooler		4000 (13'1")	2700 (8'10")	2300 (7'7")	5.4 (6.0)
Case with Driver's Cab and with Intermediate Base		4000 (13'1")	3300 (10'10")	3200 (10'6")	6.6 (7.3)
Case with 2 Gear Boxes		5600 (18'4")	2700 (8'10")	2250 (7'5")	16.6 (18.3)
Case with 2 Boom Cylinders		6400 (21'0")	1400 (4'7")	1520 (5'0")	12.3 (13.6)
Case with 2 Stick Cylinders		5600 (18'4")	1300 (4'3")	1520 (5'0")	8.7 (9.6)
Case with Accessories		3900 (12'10")	2500 (8'2")	2550 (8'4")	3.2 (3.5)
Case with Accessories		5800 (19'0")	2500 (8'2")	2150 (7'1")	3.50 (3.9)

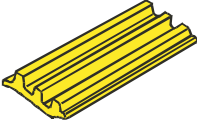
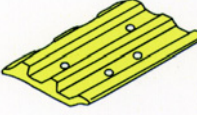
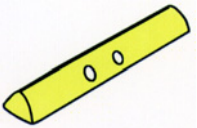
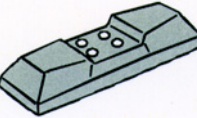
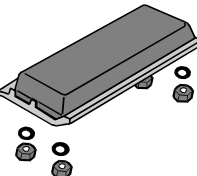
Component Dimensions and Weights

EXCAVATORS (BACKHOE)

PC8000-6

Unit name	Dimension	Length mm (ft.in.)	Width mm (ft.in.)	Height mm (ft.in.)	Weight ton (U.S. ton)
Left Crawler Side Frame without Tracks		10200 (33'6")	1520 (5'0")	2450 (8'0")	55 (60.6)
Right Crawler Side Frame without Tracks		10200 (33'0")	1520 (5'0")	2450 (8'0")	55 (60.6)
9 x 1 Chain with 10 Track Shoes 1500 mm (59")		5040 (16'6")	1500 (4'11")	400 (1'4")	91 (100.3)
1 Chain with 8-Track Shoes 1500 mm (59")		4070 (13'4")	1500 (4'11")	400 (1'4")	8.1 (8.9)
Carbody with Rotary Joint		5730 (18'10")	5060 (16'7")	2540 (8'4")	59 (65.0)
Superstructure Platform		11300 (37'1")	4750 (15'7")	4000 (13'1")	89 (98.1)
Counterweight		6750 (22'2")	1250 (4'1")	3850 (12'8")	52.3 (57.7)
Main Machinery House incl. 2 Diesel Engines		8000 (26'3")	5000 (16'5")	3900 (12'10")	59 (65.0)
Fuel Tank		3330 (10'11")	1800 (5'11")	3760 (12'4")	5.6 (6.2)
Hydraulic Tank		2710 (8'11")	1910 (6'3")	3730 (12'3")	7.2 (7.9)
Cab Base		2540 (8'4")	1930 (6'4")	3700 (12'2")	5.4 (6.0)
Boom 11.5 m (37'10")		12300 (40'4")	2700 (8'10")	5100 (16'9")	64.8 (71.4)
Arm 5.5 m (18'1")		7750 (25'5")	3250 (10'8")	2600 (8'6")	45.2 (49.8)
Backhoe Bucket 38 m ³ (49.7 cu.yd) SAE incl. Standard Wear Package WP 2		5200 (17'1")	4870 (16'0")	4500 (14'9")	45.5 (50.2)
Case with Oil Cooler		6500 (21'4")	2700 (8'10")	2500 (8'2")	11.5 (12.7)
Case with Slew Ring		4950 (16'3")	4910 (16'1")	1015 (3'4")	21 (23.1)
Case with Cab		4000 (13'1")	3030 (9'11")	3150 (10'4")	7 (7.7)
20' OT Container (belong to shipper) with Accessories					8.5 (9.4)
20' OT Container (belong to shipper) with Accessories					13.4 (14.8)
20' OT Container (belong to shipper) with Accessories					20.3 (22.4)
40' OT Container (belong to shipper) with Accessories					24.3 (26.8)

Applications of different shoes in accordance with soil characteristics and working conditions.

Type of shoe	Applicable soil and work	Advantages	Disadvantages	Remarks
<p>1 • Tripple grouser shoe</p>  <p>• Double grouser shoe</p> 	<p>Hard ground Suitable for both soft and hard ground</p>	<ul style="list-style-type: none"> • The three grousers have the same height, hence turning ability is good. • Good riding comfort is obtained as compared with a single grouser shoe. • Rotating resistance is low. • Because three beams are used, resistance to bending is high. 	<ul style="list-style-type: none"> • This shoe does not readily bite into the ground, so the traction force is low. 	
<p>2 Swamp shoe</p> 	<p>Swamp areas</p>	<ul style="list-style-type: none"> • Because the cross-section of this shoe is an arc, the ground contact area is large, and buoyancy is easily obtained. • This shoe is particularly suitable for use in swamp areas and areas with low ground pressure. The ground surface is not damaged when the machine travels over it, so it is suitable for soil compaction and leveling work. 	<ul style="list-style-type: none"> • Unsuitable for ground other than swampy ground. When used off swampy ground, it is liable to bend due to its low strength. 	
<p>3 • Road liner (rubber)</p>  <p>• Rubber pad</p> 	<p>Paved road Indoor work</p>	<ul style="list-style-type: none"> • The surface of the shoe in contact with the ground is made of rubber, so the machine can travel on paved roads without damaging the road surface. • Prevents noise when machine is traveling. 	<ul style="list-style-type: none"> • Use in the following places will shorten the cutting life of the rubber. <ol style="list-style-type: none"> (1) Rocky ground (2) Cold areas (below -25°C) (3) Hot areas (above 65°C) • Because there are no grouser, this shoe does not bite into the ground. 	

Model	Shoe type	Shoe width mm (in.)	Application**
PC78US-8	Triple-grouser	450 (18")*	A
	Rubber pad	600 (24")	B
PC80MR-3	Triple-grouser	450 (18")*	A
	Rubber	600 (24")	B
	Road liner	450 (18")	D
PC88MR-8	Triple-grouser	450 (18")*	A
	Rubber pad	450 (18")	D
PC110R-1	Triple-grouser	500 (20")*	A
		600 (24")	B
PC120-6	Triple-grouser	500 (20")*	A
		600 (24")	B
		700 (28")	C
		750 (30")	C
	Swamp	750 (30")	C
Rubber pad	500 (20")	D	
PC130-8 PC130-8*5	Triple-grouser	500 (20")*	A
		600 (24")	B
		700 (28")	C
PC130-7*4	Triple-grouser	500 (20")*	A
		600 (24")	B
		700 (28")	C
PC138US-8	Triple-grouser	500 (20")*	A
		600 (24")	B
		700 (28")	C
	Road liner	500 (20")	D
PC138USLC-8	Triple-grouser	500 (20")	A
		600 (24")*	B
		700 (28")	C
	Road liner	500 (20")	D
PC160LC-8	Triple-grouser	500 (20")*	A
		600 (24")	B
		700 (28")	C
PC160LC-7E0*5	Triple-grouser	500 (20")*	A
		600 (24")	B
		700 (28")	C
		800 (31.5")	C
PC180LC-7E0	Triple-grouser	600 (24")*	A
		700 (28")	B
		800 (31.5")	C
PC180NLC-7E0	Triple-grouser	500 (20")*	A
PC200-8 PC200-7 PC200-8*4 PC210-8*4	Triple-grouser	500 (20")	A
		600 (24")*	A
		700 (28")	B
		800 (31.5")	C

* Standard shoe
 ** See classification of the application
 *** USA source
 *4 China source
 *5 UK source
 *6 For USA
 *7 For UK
 *8 Indonesia source

Model	Shoe type	Shoe width mm (in.)	Application**
PC200LC-8***	Triple-grouser	700 (28")	B
		800 (31.5")*	C
PC200-7*8	Triple-grouser	500 (20")	A
		600 (24")	A
		700 (28")	B
		800 (31.5")*	C
PC200-7SEF	Triple-grouser	800 (31.05")*	C
PC200LC-8 PC200LC-7	Triple-grouser	600 (24")	A
		700 (28")*	B
		800 (31.4")	C
		900 (35.5")	C
PC200LC-8*4 PC210LC-8*4	Triple-grouser	600 (24")*	A
		700 (28")	B
PC210-8	Triple-grouser	700 (28")	B
		800 (31.5")	C
		600 (24")*	A
PC210LC-8	Triple-grouser	700 (28")*	B
		800 (31.5")	C
		900 (35.4")	C
		500 (20")*	A
PC210NLC-8	Triple-grouser	600 (24")	A
		700 (28")	B
		600 (24")*	A
PC220-8 PC220-7 PC220-8*4	Triple-grouser	700 (28")	B
		800 (31.5")	C
		600 (24")	A
PC220LC-8 PC220LC-7	Triple-grouser	700 (28")*	B
		800 (31.5")	C
PC220LC-8***	Triple-grouser	700 (28")*	B
PC228US-3E0	Triple-grouser	800 (31.5")	C
		600 (24")*	A
		700 (28")	B
PC228USLC-3E0	Triple-grouser	800 (31.5")	C
		600 (24")	A
		700 (28")*	B
	Road liner	600 (24")	D
PC228USLC-3E0*7	Triple-grouser	600 (24")	A
		700 (28")*	B
PC230NHD-8	Triple-grouser	600 (24")	D
		550 (22")*	A
PC240LC-8	Triple-grouser	600 (24")	A
		700 (28")*	B
		800 (31.5")	C
		900 (35.4")	C
PC240LC-8*4	Triple-grouser	600 (24")*	A
		700 (28")	B
		800 (31.5")	C
		900 (35.4")	C
PC240NLC-8	Triple-grouser	600 (24")*	A
		700 (28")	B
		800 (31.5")	C
PC270-8 PC270-7*4	Triple-grouser	600 (24")*	A
		700 (28")	B
		800 (31.5")	C
PC270LC-8***	Triple-grouser	700 (28")*	B
		800 (31.5")	C
PC270LC-8	Triple-grouser	850 (33.5")	C
		600 (24")	A
		700 (28")*	B
PC270LC-8	Triple-grouser	800 (31.5")	C
		800 (31.5")	C

Model	Shoe type	Shoe width mm (in.)	Application**
PC290LC-8	Triple-grouser	600 (24")	A
		700 (28")*	B
		800 (31.5")	C
		900 (35.4")	C
PC290NLC-8	Triple-grouser	600 (24")*	A
		700 (28")	B
		800 (31.5")	C
		900 (35.4")	C
PC300-8 PC300-8*6 PC300-8*6 (SE spec.) PC300-7	Triple-grouser	600 (24")*	A
		700 (28")	B
		800 (31.5")	C
PC300HD-8	Triple-grouser	700 (28")	B
		800 (31.5")*	C
		850 (33.5")	C
PC300-7*5	Triple-grouser	600 (24")*	A
		700 (28")	B
PC300LC-8 PC300LC-8*6 PC300LC-8*6 (SE spec.) PC300LC-7	Triple-grouser	600 (24")	A
		700 (28")*	B
		800 (31.5")	C
PC300LC-8***	Triple-grouser	700 (28")	B
		800 (31.5")*	C
		850 (33.5")	C
PC308USLC-3E0	Triple-grouser	700 (28")	B
		800 (31.5")	C
		850 (33.5")*	C
PC350LC-8*4	Triple-grouser	600 (24")	A
		700 (28")*	B
		800 (31.5")	C
		850 (33.5")	C
PC350NLC-8	Triple-grouser	600 (24")*	A
		700 (28")	B
		800 (31.5")	C
PC350-8 PC350-7	Triple-grouser	600 (24")*	A
		700 (28")	B
PC360-7*5	Triple-grouser	600 (24")*	A
PC350LC-8 PC350LC-7	Triple-grouser	600 (24")*	A
		700 (28")	B
PC400-7*5	Triple-grouser	600 (24")*	A
		700 (28")	B
		800 (31.5")	C
PC400-8 PC400-8R PC400-7	Triple-grouser	600 (24")*	A
		700 (28")	B
		800 (31.5")	C
PC400LC-8 PC400LC-8R PC400LC-7	Triple-grouser	600 (24")	A
		700 (28")*	B
		800 (31.5")	C
		700 (28")*	B
PC400LC-8***	Triple-grouser	800 (31.5")	C
		900 (35.5")	C
PC400LC-7*6 (SE spec.)	Triple-grouser	600 (24")	A
		700 (28")*	B
		800 (31.5")	C

* Standard shoe
** See classification of the application
*** USA source
*4 UK source
*5 China source
*6 Indonesia source

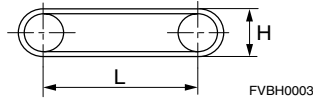
Model	Shoe type	Shoe width mm (in.)	Application**
PC450-8 PC450-8R PC450-7	Triple-grouser	600 (24")*	A
		700 (28")	B
PC450-8*4	Triple-grouser	600 (24")*	A
		700 (28")	B
		800 (31.5")	C
PC450-7*5	Triple-grouser	600 (24")*	A
PC450LC-8 PC450LC-8R PC450LC-7	Triple-grouser	600 (24")*	A
		700 (28")	B
PC450LC-8*4	Triple-grouser	600 (24")*	A
		700 (28")	B
		800 (31.5")	C
		900 (35.4")	C
PC450LC-8HD	Double-grouser	600 (24")*	A
PC600-8 PC600-8R PC600LC-8 PC600LC-8R PC600-7 PC600LC-7	Triple-grouser	600 (24")*	A
		750 (30")	B
		900 (35.4")	C
PC600-8*4	Triple-grouser	600 (24")*	A
		750 (30")	B
PC600LC-8*4	Triple-grouser	600 (24")*	A
		750 (30")	B
		900 (35.4")	C
		610 (24")*	A
PC800-8 PC800-8R PC750-7	Double-grouser	710 (28")	A
		810 (32")	B
		910 (36")	B
		1010 (40")	C
		810 (32")*	B
PC800LC-8 PC750LC-7	Double-grouser	1010 (40")	B
		1110 (44")	C
PC800-8*4	Double-grouser	600 (24")*	A
		700 (28")*	A
		810 (32")	B
		910 (36")	B
PC800LC-8*4	Double-grouser	810 (32")*	B
		1010 (40")	C
		1110 (44")	C
PC850-8 PC850-8R	Double-grouser	610 (24")*	A
		710 (28")	A
PC1250-8 PC1250-8R	Double-grouser	700 (28")*	A
		1000 (39.4")	B
PC1250LC-8	Double-grouser	1000 (39.4")*	B
		1200 (47.2")	B
PC1250-8 PC1250-8R PC1250-7 (SP spec.)	Double-grouser	700 (28")*	A,B
PC2000-8	Double-grouser	810 (32")*	A
		1010 (40")	B
PC3000-6	Double-grouser	800 (31.4")*	A
		1000 (39.3")	B
		1200 (47.2")	B
PC4000-6	Double-grouser	1200 (47.2")*	A
		1500 (59")	B
PC5500-6	Double-grouser	1350 (53")*	A
		1800 (71")	B
PC8000-6	Double-grouser	1500 (59")*	A
		1900 (75")	B

Classification of the applications:

Classification	Applicable terrain	Limitations
A	Rocky terrain, river banks, & general terrain	1. Use low gear for traveling over harsh terrain with various obstacles such as rolling stones and fallen trees.
B	General or soft terrain	1. Not applicable for traveling over harsh terrain with rolling stones and fallen trees. 2. Travel in high gear only on flat ground ; use half speed in low gear for going over the obstacles, if they are unavoidable.
C	Extremely soft terrain (swamps)	1. Applicable only when "A" & "B" sink. 2. Not applicable for traveling over harsh terrain with rolling stones and fallen trees. 3. Travel in high gear only on flat terrain ; use half speed in low gear for going over the obstacles if they are unavoidable.
D	Paved road	1. Rubber pad shoes must be used mainly in machine operation on paved road surfaces. If used on unpaved surfaces, shoe durability will be badly deteriorated due to rubber cracks, cutouts etc. The following operations must be avoided. (a) Work on broken concrete, gravel, etc. (b) Work on sharp projections like reinforcing iron rods, glass, etc. (c) Riding on concrete road shoulder, operation on bedrock and in rivers with abundance of stones, pebbles, etc. 2. In operation on roads covered with water, ice, snow, gravel etc. be careful to avoid the shoes slipping, especially in carrying or unloading operation of a machine on or from a truck. 3. In operation at high temperature (65°C or higher) or at low temp. (-25°C or lower), the rubber will be liable to damage because of the changes in the physical properties.

NOTE: Select the narrowest possible shoes, depending on the flotation and ground pressure of the machines. If the shoe is too wide, the load on the track shoe increases and results in bends in the shoes, cracks in the links, breakage and slipping out of the pins and loosening of the bolts.

Definition: Ground pressure = machine operating weight / total ground contact area
where ; total ground contact area = (L + 0.35H) × shoe width × 2



H = Track height
L = Distance between centers of sprocket and front idler

	Shoe type	Shoe width mm (in)	Ground contact area cm ² (sq.in)	Ground pressure kg/cm ² (PSI)	Change in operating weight kg (lb)	Boom Arm Bucket
PC18MR-3	Double-grouser	230 (9")	5940 (921)	0.31 (4.27)	+60 (132)	:1.76 m (5'9")
	Rubber	230 (9")*	5940 (921)	0.30 (4.27)	±0	:0.965 m (3'2") :0.044 m ³ (0.058 cu.yd)
PC20MR-3	Double-grouser	250 (10")	7980 (1225)	0.28 (4.6)	+104 (229)	:1.81 m (5'11")
	Rubber	250 (10")*	7980 (1225)	0.27(3.84)	±0	:0.97 m (3'2")
	Rubber pad	250 (10")	7980 (1225)			:0.066 m ³ (0.86 cu.yd)
PC27MR-3	Double-grouser	300 (12")	9550 (1480)	0.31 (4.6)	+86 (190)	:2.18 m (7'2")
	Rubber	300 (12")*	9550 (1480)	0.30 (4.6)	±0	:1.11 m (3'2")
	Rubber pad	300 (12")	9550 (1480)	0.32 (4.6)	+143 (315)	:0.08 m ³ (0.10 cu.yd)
	Road liner	300 (12")	9550 (1480)		+130 (287)	
PC30MR-3	Double-grouser	300 (12")	10530 (1632)	0.31 (4.41)	+118 (260)	:2.285 m (7'6")
	Rubber	300 (12")*	10530 (1632)	0.30 (4.27)	±0	:1.24 m (4'1")
	Road liner	300 (12")	10530 (1632)	0.31 (4.41)	+170 (375)	:0.09 m ³ (0.12 cu.yd)
	Rubber pad	300 (12")	10530 (1632)	0.31 (4.41)	+162 (357)	
PC35MR-3	Double-grouser	300 (12")	10530 (1632)	0.35 (5.0)	+88 (194)	:2.54 m (8'5")
	Rubber	300 (12")*	10530 (1632)	0.34 (4.83)	±0	:1.37 m (4'5")
	Rubber pad	300 (12")	10530 (1632)	0.36 (5.12)	+170 (375)	:0.11 m ³ (0.14 cu.yd)
	Road liner	300 (12")	10530 (1632)	0.35 (5.0)	+162 (357)	
PC45MR-3	Triple-grouser	400 (16")	17540 (2719)	0.28 (4.0)	+70 (154)	:2.74 m (9'0")
	Rubber	400 (16")*	17540 (2719)	0.27 (3.8)	±0	:1.44 m (4'9")
	Rubber pad	400 (16")	17540 (2719)	0.29 (4.1)	+250 (551)	:0.14 m ³ (0.18 cu.yd)
	Road liner	400 (16")	17540 (2719)	0.28 (4.0)	+90 (198)	
PC55MR-3	Triple-grouser	400 (16")	17540 (2719)	0.29 (4.1)	+70 (154)	:2.9 m (9'6")
	Rubber	400 (16")*	17540 (2719)	0.29 (4.1)	±0	:1.64 m (5'5")
	Rubber pad	400 (16")	17540 (2719)	0.30 (4.3)	+250 (551)	:0.16 m ³ (0.21 cu.yd)
	Road liner	400 (16")	17540 (2719)	0.29 (4.1)	+90 (198)	
PC78US-8	Triple-grouser	450 (18")*	22200 (3441)	0.32 (4.55)	±0	:3.71 m (12'2")
		600 (24")	29600 (4588)	0.24 (3.41)	+170 (375)	:1.65 m (5'5")
	Rubber pad	450 (18")	22200 (3441)	0.32 (4.55)	+80 (176)	:0.28 m ³ (0.37 cu.yd)
PC80MR-3	Triple-grouser	450 (18")*	22200 (3441)	0.34 (4.83)	±0	:
		600 (24")	29600 (4586)	0.26 (3.70)	+170 (375)	:1.65 m (5'5")
	Rubber	450 (24")	22200 (3441)	0.35 (4.98)	+80 (176)	:0.2 m ³ (0.26 cu.yd)
PC88MR-8	Triple-grouser	450 (18")*	22200 (3441)	0.37 (5.26)	±0	:
		600 (24")	30460 (4721)	0.28 (3.98)	+170 (375)	:3.4 m (11'2")
	Rubber	450 (18")	22200 (3441)	0.37 (5.26)	-66 (146)	:1.65 m (5'5")
	Road liner	450 (18")	22200 (3441)	0.38 (5.40)	+150 (330)	:0.28 m ³ (0.37 cu.yd)
PC110R-1	Triple-grouser	500 (20")*			±0	:
		600 (24")			+240 (540)	:2.0 m (6'9") :0.314 m ³ (0.41 cu.yd)
PC120-6	Triple-grouser	500 (20")*	29920 (4638)	0.40 (5.69)	±0	:
		600 (24")	35900 (5565)	0.34 (4.83)	+185 (408)	:4.6 m (15'1")
		700 (28")	41890 (6493)	0.30 (4.27)	+370 (816)	:2.5 m (8'2")
		750 (30")	44880 (6956)	0.28 (3.98)	+462 (1019)	:0.50 m ³ (0.65 cu.yd)

* Standard shoe *4 China source
** UK source *5 Indonesia source
*** USA source

NOTE: The shoe for the long-track excavator (L and LC), wide shoe (excluding the narrowest shoe for a model) and swamp shoe are provided with low ground pressure. These shoes should be used on soft and swampy terrain where the standard excavator with standard shoe is not usable due to sinkage of the tracks. If such shoes are used in swampy fields with stones, stumps and roots, bending of the shoe plates, cracks in the links, breakage of pins, loosening of shoe bolts and other damage may result. Therefore, the job site must be studied carefully, to provide the customer with correct instructions and advice.

Ground Pressure

EXCAVATORS (BACKHOE)

	Shoe type	Shoe width mm (in)	Ground contact area cm ² (sq.in)	Ground pressure kg/cm ² (PSI)	Change in operating weight kg (lb)	Boom Arm Bucket
PC130-8	Triple-grouser	500 (20")*	31285 (4849)	0.39 (5.55)	±0	:4.6 m (15'1")
		600 (24")	37540 (5819)	0.33 (4.69)	+180 (397)	:2.5 m (8'2")
		700 (28")	43800 (6789)	0.29 (4.12)	+360 (794)	:0.5 m ³ (0.65 cu.yd)
PC138US-8	Triple-grouser	500 (20")*	31600 (4898)	0.43 (6.11)	±0	:4.6 m (15'1")
		600 (24")	37920 (5878)	0.36 (5.12)	+190 (419)	:2.5 m (8'2")
		700 (28")	44240 (6857)	0.31 (4.41)	+370 (408)	:0.50 m ³ (0.65 cu.yd)
PC138USLC-8	Triple-grouser	500 (20")*	33520 (4698)	0.42 (5.97)	-180 (397)	:4.6 m (15'1")
		600 (24")	40220 (5637)	0.36 (5.12)	±0	:2.5 m (8'2")
		700 (28")	46930 (7274)	0.31 (4.41)	+200 (441)	:0.50 m ³ (0.65 cu.yd)
PC130-8**	Triple-grouser	500 (20")*	31285 (4849)	0.41 (5.83)	±0	:4.6 m (15'1")
		600 (24")	37540 (5819)	0.34 (4.83)	+180 (397)	:2.5 m (8'2")
		700 (28")	43800 (6789)	0.30 (4.27)	+360 (794)	:0.5 m ³ (0.65 cu.yd)
PC130-7*4	Triple-grouser	500 (20")*	31200 (4836)	0.39 (5.55)	±0	:4.6 m (15'1")
		600 (24")	37440 (5803)	0.34 (4.83)	+180 (397)	:2.5 m (8'2")
		700 (28")	43680 (6770)	0.30 (4.27)	+350 (772)	:0.53 m ³ (0.69 cu.yd)
PC160LC-8	Triple-grouser	500 (20")*	34750 (5386)	0.49 (6.97)	±0	:5.15 m (16'11")
		600 (24")	41700 (6464)	0.41 (5.83)	+220 (485)	:2.61 m (8'7")
		700 (28")	48650 (7541)	0.36 (5.12)	+440 (970)	:0.65 m ³ (0.85 cu.yd)
PC160LC-7E0**	Triple-grouser	500 (20")*	34750 (5386)	0.47 (6.68)	±0	:5.15 m (16'11")
		600 (24")	41700 (6464)	0.40 (5.69)	+220 (485)	:2.61 m (8'7")
		700 (28")	48650 (7541)	0.35 (4.98)	+440 (970)	:0.66 m ³ (0.86 cu.yd)
PC160LC-7*4	Triple-grouser	500 (20")*	34750 (5386)	0.47 (6.68)	±0	:5.15 m (16'11")
		600 (24")	41700 (6464)	0.40 (5.69)	+220 (485)	:2.61 m (8'7")
		700 (28")	48650 (7541)	0.35 (4.98)	+440 (970)	:0.65 m ³ (0.85 cu.yd)
PC180LC-7E0	Triple-grouser	600 (24")*	43020 (6668)	0.43 (2.39)	±0	:5.15 m (16'11")
		700 (28")	50180 (7778)	0.38 (4.98)	+230 (485)	:2.61 m (8'7")
		800 (31.5")	57350 (8889)	0.33 (4.41)	+440 (970)	:0.66 m ³ (0.86 cu.yd)
PC180NLC-7E0	Triple-grouser	500 (20")*	35850 (5557)	0.51 (7.25)	±0	:5.15 m (16'11")
						:2.61 m (8'7")
						:0.66 m ³ (0.86 cu.yd)
PC200-8 PC200-7	Triple-grouser	500 (20")	35660 (5527)	0.54 (7.68)	-100 (220)	:5.7 m (18'8")
		600 (24")*	42790 (6632)	0.46 (6.54)	±0	:2.925 m (9'7")
		700 (28")	49920 (7738)	0.40 (5.69)	+250 (551)	:0.80 m ³ (1.05 cu.yd)
		800 (31.5")	57050 (8843)	0.35 (4.98)	+510 (1124)	
PC200-8***	Triple-grouser	700 (28")	49920 (7738)	0.40 (5.69)	-260 (570)	:5.7 m (18'8")
		800 (31.5")*	57050 (8843)	0.35 (4.98)	±0	:2.925 m (9'7")
						:0.80 m ³ (1.05 cu.yd)
PC200-8*4	Triple-grouser					:5.7 m (18'8")
		600 (24")*	42790 (6632)	0.46 (6.54)	±0	:2.925 m (9'7")
		800 (31.5")	57050 (8843)	0.36 (5.12)	+630 (1389)	:0.80 m ³ (1.05 cu.yd)
PC210-8*4	Triple-grouser					:5.7 m (18'8")
		600 (24")*	42790 (6632)	0.47 (6.68)	±0	:2.925 m (9'7")
		800 (31.5")	57050 (8843)	0.36 (5.12)	+700 (1543)	:0.90 m ³ (1.18 cu.yd)
PC200-7*5	Triple-grouser	500 (20")	35660 (5527)	0.56 (7.97)	-800 (1764)	:5.7 m (18'8")
		600 (24")	42790 (6632)	0.47 (6.69)	-600 (323)	:2.925 m (9'7")
		700 (28")	49920 (7738)	0.41 (5.83)	-300 (661)	:0.93 m ³ (1.22 cu.yd)
		800 (31.5")*	57050 (8843)	0.36 (5.12)	±0	
PC200-7SEF	Triple-grouser	800 (31.5")*	57050 (8843)	0.37 (5.26)	±0	:5.2 m (17'3") :1.9 m (6'3") :1.30 m ³ (1.71 cu.yd)

* Standard shoe *4 China source *7 Indonesia source
 ** UK source
 *** Thailand source

NOTE: The shoe for the long-track excavator (L and LC), wide shoe (excluding the narrowest shoe for a model) and swamp shoe are provided with low ground pressure. These shoes should be used on soft and swampy terrain where the standard excavator with standard shoe is not usable due to sinkage of the tracks. If such shoes are used in swampy fields with stones, stumps and roots, bending of the shoe plates, cracks in the links, breakage of pins, loosening of shoe bolts and other damage may result. Therefore, the job site must be studied carefully, to provide the customer with correct instructions and advice.

Ground Pressure

**EXCAVATORS
(BACKHOE)**

	Shoe type	Shoe width mm (in)	Ground contact area cm ² (sq.in)	Ground pressure kg/cm ² (PSI)	Change in operating weight kg (lb)	Boom Arm Bucket
PC200LC-8 PC200LC-7	Triple-grouser	600 (24")	47350 (7339)	0.44 (6.26)	-270 (595)	:5.7 m (18'8")
		700 (28")*	55240 (8562)	0.38 (5.40)	±0	:2.925 m (9'7")
		800 (31.5")	63130 (9785)	0.34 (4.83)	+280 (617)	:0.80 m ³ (1.05 cu.yd)
PC200LC-8*4	Triple-grouser	600 (24")*	47350 (7339)	0.45 (6.40)	±0	:5.7 m (18'8")
		800 (31.5")	63130 (9785)	0.35 (4.98)	+690 (1521)	:2.925 m (9'7")
						:0.80 m ³ (1.05 cu.yd)
PC210LC-8*4	Triple-grouser	600 (24")*	47350 (7339)	0.45 (6.40)	±0	:5.7 m (18'8")
						:2.925 m (9'7")
		800 (31.5")	63130 (9785)	0.35 (4.98)	+690 (1521)	:0.90 m ³ (1.18 cu.yd)
PC200LC-8***	Triple-grouser	700 (28")	55240 (8562)	0.38 (5.40)	-280 (620)	:5.7 m (18'8")
		800 (31.5")	63130 (9785)	0.34 (4.83)	±0	:2.925 m (9'7")
						:1.02 m ³ (1.34 cu.yd3)
PC210-8	Triple-grouser	600 (24")*	42830 (6639)	0.50 (7.11)	±0	: 5.7 m (18'8")
		700 (28")	49970 (7745)	0.43 (6.11)	+250 (551)	: 2.93 m (9'7")
		800 (31.5")	57110 (8852)	0.38 (5.40)	+500 (1102)	: 0.84 m ³ (1.1 cu.yd)
PC210LC-8	Triple-grouser	600 (24")	47390 (7345)	0.46 (6.54)	±0	: 5.7 m (18'8")
		700 (28")*	55290 (8570)	0.40 (5.69)	+270 (595)	: 2.93 m (9'7")
		800 (31.5")	63190 (9794)	0.36 (5.12)	+590 (1300)	: 0.84 m ³ (1.1 cu.yd)
		900 (35.4")	71090 (11020)	0.32 (4.55)	+860 (1896)	
PC210NLC-8	Triple-grouser	500 (20")*	39490 (6121)	0.55 (7.82)	±0	: 5.7 m (18'8")
		600 (24")	47390 (7345)	0.47 (6.68)	+360 (794)	: 2.93 m (9'7")
		700 (28")	55290 (8570)	0.40 (5.69)	+630 (1389)	: 0.84 m ³ (1.1 cu.yd)
PC220-8 PC220-7	Triple-grouser	600 (24")*	44710 (6930)	0.51 (7.25)	±0	: 5.85 m (19'2")
		700 (28")	52160 (8085)	0.45 (6.40)	+260 (573)	: 3.045 m (10'0")
		800 (31.5")	59610 (5240)	0.39 (5.55)	+520 (1146)	: 1.0 m ³ (1.31 cu.yd)
PC220-8*4	Triple-grouser	600 (24")*	44710 (6930)	0.52 (7.39)	±0	: 5.85 m (19'2")
		800 (31.5")	59610 (5240)	0.40 (5.69)	+500 (1102)	: 3.045 m (9'7")
						: 1.0 m ³ (1.31 cu.yd)
PC220LC-8 PC220LC-7	Triple-grouser	600 (24")	49330 (7646)	0.49 (7.00)	-280 (617)	: 5.85 m (19'2")
		700 (28")*	57550 (8920)	0.42 (5.97)	±0	: 3.045 m (10'0")
		800 (31.5")	65770 (10194)	0.37 (5.26)	+280 (617)	: 1.0 m ³ (1.31 cu.yd)
PC220LC-8***	Triple-grouser	700 (28")	57550 (8920)	0.43 (6.08)	-280 (617)	: 5.85 m (19'2")
		800 (31.4")*	65770 (10194)	0.38 (5.38)	±0	: 3.045 m (10')
						: 1.2 m ³ (1.57 cu.yd)
PC228US-3E0	Triple-grouser	600 (24")*	42310 (6558)	0.51 (7.25)	±0	: 5.7 m (18'8")
		700 (28")	49360 (7651)	0.45 (6.40)	+420(926)	: 2.9 m (9'6")
		800 (31.5")	56410 (8744)	0.39 (5.54)	+670 (1477)	: 0.80 m ³ (1.05 cu.yd)
PC228USLC-3E0	Triple-grouser	600 (24")	47350 (7339)	0.48 (6.83)	-270 (595)	: 5.7 m (18'8")
		700 (28")*	55240 (8562)	0.42 (5.97)	±0	: 2.9 m (9'6")
		800 (31.4")	63130 (9785)	0.37 (5.26)	+280 (617)	: 0.80 m ³ (1.05 cu.yd)
PC228USLC-3E0*5	Triple-grouser	600 (24")	47350 (7339)	0.47 (6.68)	-295 (650)	: 5.7 m (18'8")
		700 (28")*	55240 (8562)	0.41 (5.83)	±0	: 2.9 m (9'6")
		800 (31.5)	63130 (9785)	0.37 (5.26)	+280 (617)	: 0.78 m ³ (1.02 cu.yd)
PC230NHD-8	Triple-grouser	550 (22")*	40984 (6353)	0.56 (7.96)	±0	: 5.7 m (18'8")
						: 2.9 m (9'6")
						: 0.94 m ³ (1.23 cu.yd)
PC240LC-8	Triple-grouser	600 (24")	49330 (7646)	0.51 (7.25)	-300 (661)	: 5.85 m (19'2")
		700 (28")*	57550 (8920)	0.44 (6.26)	±0	: 3.0 m (9'10")
		800 (31.5")	65770 (10194)	0.39 (5.55)	+300 (661)	: 1.41 m ³ (1.84 cu.yd)
		900 (35.5")	73990 (11468)	0.35 (5.00)	+600 (1323)	
PC240NLC-8	Triple-grouser	600 (24")*	46870 (7265)	0.52 (7.39)	±0	: 5.85 m (19'2")
		700 (28")	54680 (8475)	0.45 (6.40)	+300 (661)	: 3.05 m (10')
		800 (31.5")	62490 (9686)	0.40 (5.69)	+600 (1323)	: 1.41 m ³ (1.84 cu.yd)

* Standard shoe *5 For UK

*** USA source

*4 China source

NOTE: The shoe for the long-track excavator (L and LC), wide shoe (excluding the narrowest shoe for a model) and swamp shoe are provided with low ground pressure. These shoes should be used on soft and swampy terrain where the standard excavator with standard shoe is not usable due to sinkage of the tracks. If such shoes are used in swampy fields with stones, stumps and roots, bending of the shoe plates, cracks in the links, breakage of pins, loosening of shoe bolts and other damage may result. Therefore, the job site must be studied carefully, to provide the customer with correct instructions and advice.

	Shoe type	Shoe width mm (in)	Ground contact area cm ² (sq.in)	Ground pressure kg/cm ² (PSI)	Change in operating weight kg (lb)	Boom Arm Bucket
PC240LC-8*4	Triple-grouser	600 (24")*	49330 (7646)	0.51 (7.25)	±0	: 5.85 m (19'2")
		800 (31.5")	65770 (10194)	0.39 (5.55)	+560 (1235)	: 3.045 m (10'0")
						: 1.2 m ³ (1.57 cu.yd)
PC270-8	Triple-grouser	600 (24")*	48280 (7483)	0.56 (7.96)	±0	: 5.85 m (19'2")
		700 (28")	56330 (8731)	0.49 (6.97)	+110 (243)	: 3.05 m (10'0")
		800 (31.5")	64370 (9977)	0.43 (6.11)	+460 (1010)	: 1.26 m ³ (1.65 cu.yd)
PC270-7*4	Triple-grouser	600 (24")*	48280 (7483)	0.56 (7.96)	±0	: 5.85 m (19'2")
		700 (28")	56330 (8731)	0.49 (6.97)	+110 (243)	: 3.05 m (10'0")
		800 (31.5")	64370 (9977)	0.43 (6.11)	+460 (1010)	: 1.3 m ³ (1.70 cu.yd)
PC270LC-8	Triple-grouser	600 (24")	52450 (8130)	0.53 (7.54)	-600 (1323)	: 5.85 m (19'2")
		700 (28")*	61190 (9484)	0.47 (6.68)	±0	: 3.05 m (10'0")
		800 (31.5")	69930 (10839)	0.41 (5.83)	+380 (838)	: 1.26 m ³ (1.65 cu.yd)
PC270LC-8***	Triple-grouser	700 (28")*	61190 (9484)	0.48 (6.83)	-480 (1060)	: 5.85 m (19'2")
		800 (31.5")	69930 (10839)	0.43 (6.05)	±0	: 3.05 m (10'0")
		850 (33.5")	74300 (11517)	0.42 (5.90)	+450 (990)	: 1.41 m ³ (1.85 cu.yd)
PC290LC-8	Triple-grouser	600 (24")	52450 (8130)	0.56 (7.96)	-400 (882)	: 5.85 m (19'2")
		700 (28")*	61190 (9484)	0.49 (6.97)	±0	: 2.5 m (8'2")
		800 (31.5")	69930 (10839)	0.43 (6.11)	+400 (882)	: 1.74 m ³ (2.28 cu.yd)
PC290LC-8	Triple-grouser	850 (33.5")	74300 (11517)	0.41 (5.83)	+600 (1323)	
		600 (24")	52450 (8130)	0.56 (7.96)	±0	: 5.85 m (19'2")
		700 (28")*	61190 (9484)	0.49 (6.97)	+400 (882)	: 2.5 m (8'2")
PC290NLC-8	Triple-grouser	800 (31.5")	69930 (10839)	0.43 (6.11)	+800 (1764)	: 1.74 m ³ (2.28 cu.yd)
		850 (33.5")	74300 (11517)	0.41 (5.83)	+1000 (2205)	
		600 (24")	48280 (7483)	0.64 (9.10)	±0	: 6.47 m (21'3")
PC300-8	Triple-grouser	700 (28")	56330 (8731)	0.56 (7.96)	+560 (1234)	: 3.185 m (10'5")
		800 (31.5")	64370 (9977)	0.49 (6.97)	+910 (2006)	: 1.4 m ³ (1.83 cu.yd)
		600 (24")*	48280 (7483)	0.64 (9.10)	±0	: 6.47 m (21'3")
PC300-8*7	Triple-grouser	700 (28")	56330 (8731)	0.56 (7.96)	+360 (794)	: 3.185 m (10'5")
		800 (31.5")	64370 (9977)	0.49 (6.97)	+710 (1565)	: 1.4 m ³ (1.83 cu.yd)
		600 (24")*	48280 (7483)	0.64 (9.10)	±0	: 6.47 m (21'3")
PC300-7	Triple-grouser	700 (28")	56330 (8731)	0.55 (7.82)	+360 (794)	: 3.185 m (10'5")
		800 (31.5")	64370 (9977)	0.47 (6.68)	+710 (1565)	: 1.4 m ³ (1.83 cu.yd)
		700 (28")	65390 (10135)	0.57 (8.13)	±0	: 6.5 m (21'3")
PC300HD-8	Triple-grouser	800 (31.5")*	74730 (11583)	0.51 (7.21)	+500 (1102)	: 3.185 m (10'5")
		850 (33.5)	79400 (12307)	0.46 (6.47)	+900 (1984)	: 1.96 m ³ (2.56 cu.yd)
		600 (24")*	48280 (7483)	0.65 (9.24)	±0	: 6.47 m (21'3")
PC300-7*4	Triple-grouser	700 (28")	56330 (8731)	0.55 (7.82)	+360 (794)	: 3.185 m (10'5")
		600 (24")	48240 (7483)	0.68 (9.67)	±0	: 6.47 m (21'3")
		700 (28")	56330 (8731)	0.59 (8.45)	+360 (794)	: 1.4 m ³ (1.83 cu.yd)
PC300-8*7 (SE spec.)	Triple-grouser	800 (31.5")*	64370 (9977)	0.52 (7.47)	+710 (1565)	: 3.185 m (10'5")
		600 (24")	52230 (8096)	0.60 (8.53)	-600 (1323)	: 6.47 m (21'3")
		700 (28")*	60940 (9446)	0.53 (7.54)	±0	: 3.185 m (10'5")
PC300LC-8	Triple-grouser	800 (31.5")	69650 (10796)	0.47 (6.68)	+380 (838)	: 1.4 m ³ (1.83 cu.yd)
		600 (24")	52230 (8096)	0.60 (8.53)	-380 (838)	: 6.47 m (21'3")
		700 (28")*	60940 (9446)	0.53 (7.54)	±0	: 3.185 m (10'5")
PC300LC-8*5	Triple-grouser	800 (31.5")	69650 (10796)	0.47 (6.68)	+380 (838)	: 1.4 m ³ (1.83 cu.yd)
		600 (24")	52230 (8096)	0.69 (9.86)	-380 (838)	: 6.47 m (21'3")
		700 (28")*	60940 (9446)	0.56 (7.90)	±0	: 3.185 m (10'5")
PC300LC-8*5 (SE spec.)	Triple-grouser	800 (31.5")	69650 (10796)	0.50 (6.98)	+380 (838)	: 1.4 m ³ (1.83 cu.yd)
		600 (24")	52230 (8096)	0.60 (8.53)	-380 (838)	: 6.47 m (21'3")
		700 (28")*	60940 (9446)	0.52 (7.36)	±0	: 3.185 m (10'5")
PC300LC-7	Triple-grouser	800 (31.5")	69650 (10796)	0.46 (6.54)	+380 (838)	: 1.4 m ³ (1.83 cu.yd)
		600 (24")	52230 (8096)	0.60 (8.53)	-380 (838)	: 6.47 m (21'3")
		700 (28")*	60940 (9446)	0.58 (7.68)	-380 (838)	: 6.50 m (21'3")
PC300LC-8***	Triple-grouser	800 (31.5")*	69650 (10796)	0.51 (6.97)	±0	: 3.185 m (10'5")
		850 (33.4")	74000 (11470)	0.47 (6.68)	+380 (838)	: 1.96 m ³ (2.56 cu.yd)
		700 (28")	60630 (9398)	0.53 (7.54)	-569 (1254)	: 5.85 m (19'2")
PC308USLC-3E0	Triple-grouser	800 (31.5")	69291 (10740)	0.46 (6.54)	-192 (423)	: 3.05 m (10'0")
		850 (33.5")*	73622 (11411)	0.44 (6.28)	±0	: 1.21 m ³ (1.59 cu.yd)

* Standard shoe *4 China source
 ** UK source *5 Indonesia source
 *** USA source

NOTE: The shoe for the long-track excavator (L and LC), wide shoe (excluding the narrowest shoe for a model) and swamp shoe are provided with low ground pressure. These shoes should be used on soft and swampy terrain where the standard excavator with standard shoe is not usable due to sinkage of the tracks. If such shoes are used in swampy fields with stones, stumps and roots, bending of the shoe plates, cracks in the links, breakage of pins, loosening of shoe bolts and other damage may result. Therefore, the job site must be studied carefully, to provide the customer with correct instructions and advice.

Ground Pressure

EXCAVATORS (BACKHOE)

	Shoe type	Shoe width mm (in)	Ground contact area cm ² (sq.in)	Ground pressure kg/cm ² (PSI)	Change in operating weight kg (lb)	Boom Arm Bucket
PC350LC-8	Triple-grouser	600 (24")	52230 (8096)	0.66 (9.39)	-380 (838)	: 6.47 m (21'3")
		700 (28")*	60940 (9446)	0.57 (8.11)	±0	: 2.6 m (8'6")
		850 (33.5")	69650 (10796)	0.50 (7.11)	+380 (838)	: 1.38 m ³ (1.80 cu.yd)
PC350NLC-8	Triple-grouser	600 (24")*	52230 (8096)	0.65 (9.24)	±0	: 6.47 m (21'3")
		700 (28")*	60940 (9446)	0.57 (8.11)	+380 (8.38)	: 2.6 m (8'6")
		800 (31.5")	69650 (10796)	0.50 (7.11)	+760 (1675)	: 1.38 m ³ (1.80 cu.yd)
PC350-8 PC350-7	Triple-grouser	600 (24")*	48280 (7483)	0.67 (9.53)	±0	: 6.47 m (21'3")
		700 (28")	56330 (8731)	0.58 (8.25)	+360 (794)	: 3.185 m (10'5")
PC350LC-8 PC350LC-7	Triple-grouser	600 (24")*	52230 (8096)	0.64 (9.10)	±0	: 6.47 m (21'3")
		700 (28")	60940 (9446)	0.56 (7.96)	+380 (838)	: 3.185 m (10'5")
PC360-7*4	Triple-grouser	600 (24")*	48280 (7483)	0.67 (9.53)	±0	: 6.47 m (21'3")
						: 3.185 m (10'5")
PC400-7*4	Triple-grouser	600 (24")*	52470 (8133)	0.81 (11.5)	±0	: 1.4 m ³ (1.83 cu.yd)
		700 (28")	61220 (9489)	0.70 (9.95)	+420 (926)	: 7.06 m (23'2")
		800 (31.4")	69960 (10844)	0.62 (8.82)	+850 (1874)	: 3.38 m (11'1")
PC400-8 PC400-8R PC400-7	Triple-grouser	600 (24")*	52090 (8074)	0.79 (11.24)	±0	: 1.9 m ³ (2.49 cu.yd)
		700 (28")	60770 (9419)	0.69 (9.81)	+420 (926)	: 7.06 m (23'2")
		800 (31.4")	69450 (10765)	0.61 (8.67)	+850 (1874)	: 3.38 m (11'1")
PC400LC-8 PC400LC-8R	Triple-grouser	600 (24")	56050 (8638)	0.75 (10.7)	-450 (992)	: 1.9 m ³ (2.49 cu.yd)
		700 (28")*	65390 (10135)	0.65 (9.24)	±0	: 7.06 m (23'2")
		800 (31.4")	74730 (11583)	0.57 (8.11)	+460 (1014)	: 3.38 m (11'1")
PC400LC-7	Triple-grouser	600 (24")	56050 (8638)	0.76 (10.81)	-450 (992)	: 1.9 m ³ (2.49 cu.yd)
		700 (28")*	65390 (10135)	0.66 (9.39)	±0	: 7.06 m (23'2")
		800 (31.4")	74730 (11583)	0.58 (8.25)	+450 (992)	: 3.38 m (11'1")
PC400LC-8***	Triple-grouser	700 (28")	65390 (10135)	0.66 (9.39)	450 (992)	: 1.9 m ³ (2.49 cu.yd)
		800 (31.4")*	74730 (11583)	0.59 (8.39)	±0	: 7.06 m (23'2")
		900 (35.4")	84070 (13030)	0.53 (7.54)	+460 (1014)	: 3.38 m (11'1")
PC400LC-7*5 (SE spec.)	Triple-grouser	600 (24")	56540 (8767)	0.78 (11.1)	-910 (2006)	: 1.94 m ³ (2.54 cu.yd)
		700 (28")*	65970 (10225)	0.67 (9.53)	-460 (1014)	: 7.06 m (23'2")
		800 (31.4")	75390 (11685)	0.59 (8.39)	±0	: 2.4 m (7'10")
PC450-8 PC450-8R	Triple-grouser	600 (24")*	52090 (8074)	0.82 (11.7)	±0	: 3.2 m ³ (4.19 cu.yd)
		700 (28")	60770 (9419)	0.71 (10.1)	+420 (926)	: 7.06 m (23'2")
PC450-7	Triple-grouser					: 3.38 m (11'1")
		600 (24")*	52090 (8074)	0.83 (11.8)	±0	: 1.9 m ³ (2.49 cu.yd)
		700 (28")	60770 (9419)	0.71 (10.1)	+420 (926)	: 7.06 m (23'2")
PC450-7*4	Triple-grouser					: 3.38 m (11'1")
		600 (24")*	52090 (8074)	0.87 (12.4)	±0	: 2.1 m ³ (2.75 cu.yd)
						: 7.06 m (23'2")
PC450LC-7	Triple-grouser	600 (24")*	56050 (8688)	0.79 (11.23)	±0	: 7.06 m (23'2")
		700 (28")	65390 (10135)	0.68 (9.67)	+450 (992)	: 3.38 m (11'1")
						: 1.9 m ³ (2.49 cu.yd)
PC450-8**	Triple-grouser	600 (24")*	52090 (8074)	0.84 (11.94)	±0	: 7.06 m (23'2")
		700 (28")	60770 (9419)	0.73 (10.38)	+410 (904)	: 2.9 m (9'6")
		800 (31.4")	69450 (10765)	0.64 (9.10)	+840 (1852)	: 2.2 m ³ (2.88 cu.yd)
PC450LC-8 PC450LC-8R	Triple-grouser	600 (24")*	56050 (8688)	0.78 (11.1)	±0	: 7.06 m (23'2")
		700 (28")	65390 (10135)	0.68 (9.67)	+450 (992)	: 3.38 m (11'1")
PC450LC-8**	Triple-grouser					: 1.9 m ³ (2.49 cu.yd)
		600 (24")*	56050 (8688)	0.86 (12.2)	±0	: 7.06 m (23'2")
		700 (28")	65390 (10135)	0.74 (10.5)	+450 (992)	: 3.4 m (11'2")
		800 (31.4")	74730 (11583)	0.66 (9.39)	+1020 (2249)	: 2.2 m ³ (2.88 cu.yd)
PC450LC-8HD**	Double-grouser	600 (24")*	56050 (8638)	0.82 (11.7)	±0	: 6.67 m (21'11")
						: 2.4 m (7'10")
						: 1.9 m ³ (2.49 cu.yd)

* Standard shoe *4 China source
** UK source *5 Indonesia source
*** USA source

NOTE: The shoe for the long-track excavator (L and LC), wide shoe (excluding the narrowest shoe for a model) and swamp shoe are provided with low ground pressure. These shoes should be used on soft and swampy terrain where the standard excavator with standard shoe is not usable due to sinkage of the tracks. If such shoes are used in swampy fields with stones, stumps and roots, bending of the shoe plates, cracks in the links, breakage of pins, loosening of shoe bolts and other damage may result. Therefore, the job site must be studied carefully, to provide the customer with correct instructions and advice.

Ground Pressure

EXCAVATORS (BACKHOE)

	Shoe type	Shoe width mm (in)	Ground contact area cm ² (sq.in)	Ground pressure kg/cm ² (PSI)	Change in operating weight kg (lb)	Boom Arm Bucket
PC600-8 PC600-8R	Triple-grouser	600 (24")*	55240 (8562)	1.04 (14.79)	±0	: 7.66 m (25'2")
		750 (29.5")	69090 (10709)	0.84 (11.94)	+800 (1764)	: 3.5 m (11'6") : 2.7 m ³ (3.53 cu.yd)
PC600-8**	Triple-grouser	600 (24")*	55240 (8562)	1.03 (14.5)	±0	: 7.66 m (25'2")
		750 (29.5")	69090 (10709)	0.84 (11.94)	+800 (1764)	: 2.9 m (9'6") : 2.8 m ³ (3.66 cu.yd)
PC600-7	Triple-grouser	600 (24")*	55240 (8562)	1.02 (14.5)	±0	: 7.66 m (25'2")
		750 (29.5")	69090 (10709)	0.83 (11.8)	+820 (1808)	: 3.5 m (11'6") : 2.7 m ³ (3.53 cu.yd)
PC600LC-8 PC600LC-8R	Triple-grouser	600 (24")*	59440 (9213)	0.98 (13.9)	±0	: 7.66 m (25'2")
		750 (29.5")	74300 (11517)	0.80 (11.4)	+880 (1940)	: 3.5 m (11'6")
		900 (35.4")	89160 (13820)	0.67 (9.5)	+1740 (3840)	: 2.7 m ³ (3.53 cu.yd)
PC600LC-7	Triple-grouser	600 (24")*	59440 (9213)	0.97 (13.8)	±0	: 7.66 m (25'2")
		750 (29.5")	74300 (11517)	0.79 (11.2)	+880 (1940)	: 3.5 m (11'6")
		900 (35.4")	89160 (13820)	0.67 (9.5)	+1740 (3840)	: 2.7 m ³ (3.53 cu.yd)
PC600LC-8**	Triple-grouser	600 (24")*	59440 (9213)	0.98 (13.9)	±0	: 7.66 m (25'2")
		750 (29.5")	74300 (11517)	0.79 (11.2)	+880 (1940)	: 3.5 m (11'6")
		900 (35.4")	89160 (13820)	0.67 (9.5)	+1740 (3840)	: 2.7 m ³ (3.53 cu.yd)
PC750-7	Double-grouser	610 (24")*	60170 (9326)	1.20 (17.1)	±0	
		710 (28")	70030 (10855)	1.04 (14.8)	+800 (1764)	: 8.2 m (26'11")
		810 (32")	79900 (12385)	0.92 (13.1)	+1330 (2930)	: 3.6 m (11'10")
		910 (36")	89760 (13913)	0.83 (11.8)	+1970 (4340)	: 3.1 m ³ (4.05 cu.yd)
		1010 (40")	99630 (15443)	0.75 (10.7)	+2610 (5750)	
PC800-8 PC800-8R	Double-grouser	610 (24")*	60170 (9326)	1.23 (17.5)	±0	
		710 (28")	70030 (10855)	1.07 (15.2)	+800 (1764)	: 8.2 m (26'11")
		810 (32")	79900 (12385)	0.94 (13.4)	+1330 (2930)	: 3.6 m (11'10")
		910 (36")	89760 (13913)	0.85 (12.1)	+1970 (4340)	: 3.1 m ³ (4.05 cu.yd)
		1010 (40")	99630 (15443)	0.77 (10.9)	+2610 (5750)	
PC800-8**	Double-grouser	610 (24")*	60170 (9326)	1.30 (18.5)	±0	: 7.1 m (23'4")
		710 (28")	70030 (10855)	1.12 (15.9)	+800 (1764)	: 2.9 m (9'8")
		810 (32")	79900 (12385)	0.99 (14.1)	+1400 (3086)	: 4.0 m ³ (5.23 cu.yd)
		910 (36")	89760 (13913)	0.89 (12.7)	+2000 (4409)	
PC800-8**	Double-grouser	610 (24")*	60170 (9326)	1.31 (18.6)	±0	: 8.0 m (23'11")
		710 (28")	70030 (10855)	1.14 (16.2)	+800 (1764)	: 3.6 m (11'10")
		810 (32")	79900 (12385)	1.00 (14.2)	+1330 (2930)	: 3.6 m ³ (4.11 cu.yd)
		910 (36")	89760 (13913)	1.90 (27.0)	+1970 (4340)	
PC800-7	Double-grouser	610 (24")*	60170 (9326)	1.27 (18.1)	±0	: 8.2 m (26'11")
		710 (28")	70030 (10855)	1.10 (15.6)	+800 (1764)	: 3.6 m (11'10") : 3.4 m ³ (4.45 cu.yd)
PC800LC-8***	Double-grouser	810 (32")*	88320 (13690)	0.92 (13.1)	±0	: 8.2 m (26'11")
		1010 (40")	110130 (17070)	0.75 (10.7)	+1400 (3086)	: 3.6 m (11'10")
		1110 (44")	121030 (18760)	0.69 (9.8)	+2100 (4630)	: 3.1 m ³ (4.05 cu.yd)
PC800LC-8**	Double-grouser	810 (32")	88320 (13690)	0.93 (13.2)	±0	: 8.04 m (26'5")
		1010 (40")	110130 (17070)	0.76 (10.8)	+1500 (3307)	: 3.6 m (11'10")
		1110 (44")	121030 (18760)	0.69 (9.81)	+2200 (4850)	: 3.6 m ³ (4.71 cu.yd)
PC800LC-8**	Double-grouser	810 (32")	88320 (13690)	0.92 (12.9)	±0	: 7.1 m (23'4")
		1010 (40")	110130 (17070)	0.75 (11.7)	+1500 (3307)	: 2.945 m (9'8")
		1110 (44")	121030 (18760)	0.69 (10.7)	+2200 (4850)	: 4.0 m ³ (5.23 cu.yd)
PC800-8 PC800-8R (SE spec.)	Double-grouser	610 (24")*	60170 (9326)	1.24 (17.6)	±0	
		710 (28")	70030 (10855)	1.08 (15.4)	+800 (1760)	: 7.1 m (23'4")
		810 (32")	79900 (12385)	0.95 (13.5)	+1330 (2930)	: 2.945 m (9'8")
		910 (36")	89760 (13913)	0.86 (12.2)	+1970 (4340)	: 4.0 m ³ (5.23 cu.yd)
		1010 (40")	99630 (15443)	0.78 (11.1)	+2610 (5750)	

* Standard shoe

** UK source

*** For USA

NOTE: The shoe for the long-track excavator (L and LC), wide shoe (excluding the narrowest shoe for a model) and swamp shoe are provided with low ground pressure. These shoes should be used on soft and swampy terrain where the standard excavator with standard shoe is not usable due to sinkage of the tracks. If such shoes are used in swampy fields with stones, stumps and roots, bending of the shoe plates, cracks in the links, breakage of pins, loosening of shoe bolts and other damage may result. Therefore, the job site must be studied carefully, to provide the customer with correct instructions and advice.

Ground Pressure

EXCAVATORS (BACKHOE)

	Shoe type	Shoe width mm (in)	Ground contact area cm ² (sq.in)	Ground pressure kg/cm ² (PSI)	Change in operating weight kg (lb)	Boom Arm Bucket
PC800-7 (SE spec.)	Double-grouser	610 (24")*	60170 (9326)	1.25 (17.8)	±0	: 7.1 m (23'4")
		710 (28")	70030 (10855)	1.09 (15.5)	+800 (1764)	: 2.945 m (9'8")
						: 4.3 m ³ (5.62 cu.yd)
PC850-8 PC850-8R	Double-grouser	610 (24")*	60170 (9326)	1.31 (18.6)	±0	: 8.2 m (26'11")
		710 (28")	70030 (10855)	1.14 (16.2)	+800 (1764)	: 3.6 m (11'10")
						: 3.4 m ³ (4.45 cu.yd)
PC850-8 PC850-8R (SE spec.)	Double-grouser	610 (24")*	60170 (9326)	1.30 (18.5)	±0	: 7.1 m (23'4")
		710 (28")	70030 (10855)	1.13 (16.1)	+800 (1764)	: 2.945 m (9'8")
						: 4.3 m ³ (5.62 cu.yd)
PC1250-8 PC1250-8R	Double-grouser	700 (28")*	76450 (11850)	1.39 (19.8)	±0	: 9.1 m (29'10")
		1000 (39.4")	109200 (16926)	0.99 (14.1)	+2310 (5090)	: 3.4 m (11'2")
						: 5.0 m ³ (6.54 cu.yd)
PC1250-7	Double-grouser	700 (28")*	76450 (11850)	1.35 (19.2)	±0	: 9.1 m (29'10")
		1000 (39.4")	109200 (16926)	0.96 (13.7)	+2300 (5070)	: 3.4 m (11'2")
						: 5.0 m ³ (6.54 cu.yd)
PC1250LC-8	Double-grouser	1000 (39.4")*	128700 (19949)	0.88 (12.5)	±0	: 9.1 m (29'10")
		1200 (47.2")	154400 (23932)	0.75 (10.4)	+2000 (4410)	: 3.4 m (11'2")
						: 5.2 m ³ (6.80 cu.yd)
PC1250-8 PC1250-8R (SP spec.)	Double-grouser	700 (28")*	76450 (11850)	1.44 (20.4)	±0	: 7.8 m (25'7")
						: 3.4 m (11'2")
						: 6.7 m ³ (8.8 cu.yd)
PC1250-7 (SP spec.)	Double-grouser	700 (28")*	76450 (11850)	1.36 (19.3)	±0	: 7.8 m (25'7")
						: 3.4 m (11'2")
						: 6.5 m ³ (8.5 cu.yd)
PC2000-8	Double-grouser	810 (32")*	103020 (15970)	1.94 (27.6)	±0	: 8.7 m (28'7")
	Triple-grouser	1010 (40")	128460 (1990)	1.59 (22.6)	+4120 (9085)	: 3.9 m (12'10")
					: 12.0 m ³ (15.7 cu.yd)	
PC3000-6 (Diesel Drive)	Double-grouser	800 (31.4")*	106696 (16538)	2.40 (34.1)	±0	: 8.6 m (28'3")
		1000 (39.3")	133370 (20672)	1.99 (28.3)	+9000 (19840)	: 4.0 m (13'1")
		1200 (47.2")	160044 (24807)	1.66 (23.6)	+9000 (19840)	: 15.0 m ³ (19.6 cu.yd)
PC3000-6 (Electric Drive)	Double-grouser	800 (31.4")*	106696 (16538)	2.39 (34.0)	±0	: 8.6 m (28'3")
		1000 (39.3")	133370 (20672)	1.97 (28.1)	+8000 (17640)	: 4.0 m (13'1")
		1200 (47.2")	160044 (24807)	1.64 (23.4)	+8000 (17640)	: 15.0 m ³ (19.6 cu.yd)
PC4000-6 (Diesel Drive)	Double-grouser	1200 (47.2")*	178793 (27741)	2.23 (31.7)	±0	: 9.75 m (32')
		1500 (59")	223491 (34641)	1.80 (25.6)	+5000 (11023)	: 4.5 m (14'9")
						: 22 m ³ (28.8 cu.yd)
PC4000-6 (Electric Drive)	Double-grouser	1200 (47.2")*	178793 (27741)	2.18 (31.0)	±0	: 9.75 m (32')
		1500 (59")	223491 (34641)	1.77 (25.1)	+5000 (11023)	: 4.5 m (14'9")
						: 22 m ³ (28.8 cu.yd)
PC5500-6 (Diesel Drive)	Double-grouser	1350 (53")*	222145 (34432)	2.43 (34.6)	±0	: 11 m (36'1")
		1800(71")	296194 (45910)	1.87 (26.6)	+14000 (30860)	: 5.1 m (16'9")
						: 29 m ³ (37.9 cu.yd)
PC5500-6 (Electric Drive)	Double-grouser	1350 (53")*	222145 (34432)	2.41 (34.3)	±0	: 11 m (36'1")
		1800(71")	296194 (45910)	1.85 (26.4)	+14000 (30860)	: 5.1 m (16'9")
						: 29 m ³ (37.9 cu.yd)
PC8000-6 (Diesel Drive)	Double-grouser	1500 (59")*	276668 (41954)	2.75 (39.1)	±0	: 11.5 m (37'10")
		1900(75")	342846 (53141)	2.21 (31.4)	+13000 (28660)	: 5.5 m (18'1")
						: 38 m ³ (49.7 cu.yd)
PC8000-6 (Electric Drive)	Double-grouser	1500 (59")*	276668 (41954)	2.70 (38.5)	±0	: 11.5 m (37'10")
		1900(75")	342846 (53141)	2.17 (30.9)	+12000 (26460)	: 5.5 m (18'1")
						: 38 m ³ (49.7 cu.yd)

* Standard shoe

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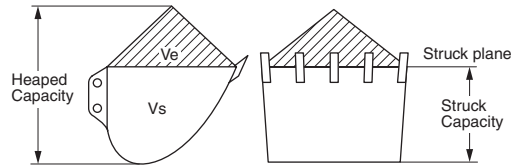
BUCKET CAPACITY RATING

Bucket capacity is measured in terms of either struck or heaped capacity. Generally, the heaped capacity description is more frequently used.

Komatsu Ltd. rates the excavator bucket capacity based on ISO and other standards such as JIS, PCSA and SAE (JIS and SAE are based on ISO.)

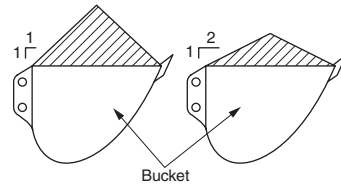
1) Struck Capacity

The struck capacity is the volume capacity of the bucket after it has been struck at the strike plane. The strike plane passes through the top back edge of the bucket and the cutting edge. (See top figure at right)



2) Heaped Capacity

The heaped capacity is the sum of the struck capacity plus the volume of material heaped on the bucket at a 1:2 angle of repose, as shown in the center figure at right. This in no way implies that the hoe must carry the bucket oriented in this attitude, or that all material will naturally have a 1:2 angle of repose.



FVBH0256

$V_h = V_s + V_e$ Where:

- Vs: struck capacity
- Vh: heaped capacity
- Ve: excess material heaped at 1:2 or 1:1 angle of repose

There are various standards for designating the heaped capacity of the bucket.

The principal difference among these definitions is the "angle of repose", as listed in the table below.

The angle of repose

Standard Bucket type	ISO	JIS	PCSA	SAE	CECE
Hoe bucket	1:1	1:1	1:1	1:1	1:2
Loading shovel	1:2	1:2	1:2	1:2	1:2

Notes:

- ISOInternational Organization of Standard - ISO 7451 and ISO 7546
- JISJapanese Industrial Standard - JIS A8401 - 1976
- PCSAPower Crane and Shovel Association (USA) - PCSA No.37-26
- SAESociety of Automotive Engineers (USA) - SAE J296/J742b
- CECECommittee of European Construction Equipment - CECE SECTION VI

Bucket selection for excavator

Komatsu offers various kinds and sizes of buckets so that the users are able to select the optimum bucket for the type of soil and the work to be performed. This enables the work to be accomplished most efficiently. The following is a guide for selecting the optimum bucket.

1. Selection of type (shape)

Various types can be attached to excavators.

- General purpose bucket
- Light duty bucket
- Heavy duty bucket
- Narrow bucket (Ditch bucket)
- Rock bucket
- Ripper bucket
- Other special buckets

The appropriate type should be selected for each job application.

It is recommended to ask the Komatsu distributor about the availability of necessary buckets. When the necessary bucket is not currently available, the distributor can request Komatsu to develop it.

2. Selection of size

The following two points 1) and 2) should be considered altogether.

1) From the machine stability (For backhoe type)

If the bucket size (capacity) is too big, it will worsen the stability of the machine, resulting in danger of tipping over or rolling over.

The concept of the bucket selection from the point of machine stability is from the following.

Putting A as the maximum allowable load from over-side (sideways) machine stability and B as the bucket working load (bucket weight + carrying material weight), the size of the bucket should be selected so as to be;

$$B \leq A$$

From Figure 1,

$$A = W_1 + (L_0 / L) W_2 = W_1 + W_2 \text{ Approximately}$$

where, W_1 : The weight of the empty bucket shown in the table of Lift Capacity. The value of the weight is shown in the tables of "Bucket and Arm Combination".

W_2 : The smallest lift capacity in the table of Lift Capacity at respective boom length and arm length (The lift capacity differs by the arm vertical position)

From Figure 2,

$$B = W_3 + W_4$$

where, W_3 : The bucket weight used for the job

W_4 : The weight of carried material
(= rated bucket capacity \times specific gravity of carried material)

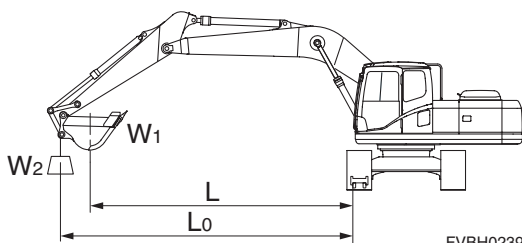


Figure 1

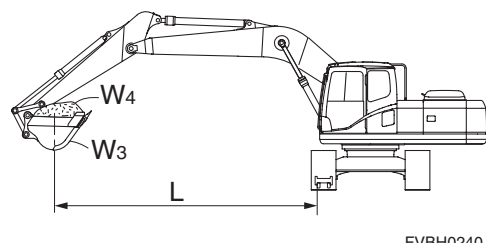


Figure 2

2) From the bucket penetration force

When selecting a bucket, check whether the penetration force of the bucket is sufficient for the soil at the job site. The bucket penetration force is the digging force per unit width of the bucket.

$$\text{Bucket penetration force} = \text{Digging force} / \text{Bucket width}$$

The larger the digging force per unit width of the bucket is, the larger the bucket penetration force (penetration performance) is.

The digging force is generated by the bucket hydraulic cylinder(s) and the boom hydraulic cylinder(s). In addition to the digging force, the width of the bucket and the tip radius (dimension from the bucket hinge center to the forefront of the bucket teeth) affects the bucket penetration force.

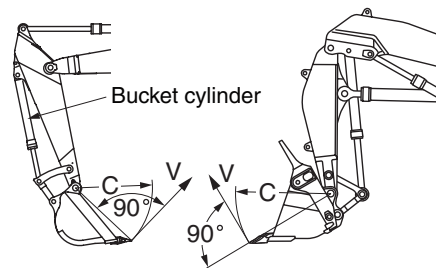
(1) Digging force

Rated digging force of the bucket is the force at the foremost digging point of the bucket. This digging force is generated by the bucket hydraulic cylinder and the arm hydraulic cylinder. The former is called the "Bucket digging force" and the latter is called the "Arm crowd force".

These digging forces are calculated by applying working relief hydraulic pressure to the cylinder(s). The weight of components and friction are to be excluded in the calculation. The definition of the digging forces are based on SAE J1179 and are as follows.

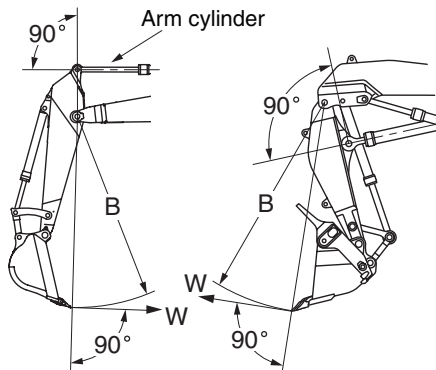
a. Bucket digging force

The rated bucket digging force (V, in the top figure) is the force generated by the bucket cylinder(s) and the tangent to the arc of radius C. The bucket should be positioned to obtain the maximum output moment from the bucket cylinder(s) and the connecting linkage.



b. Arm crowd force

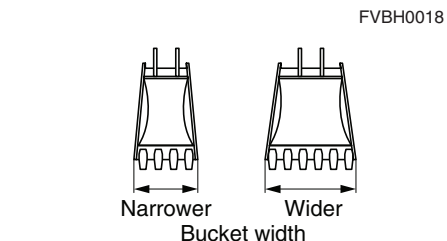
The rated arm crowd force (W, in the bottom figure) is the force generated by the arm cylinder(s) and the tangent to the arc of the radius B. The arm should be positioned to obtain the maximum output moment from the arm cylinder(s) and the bucket, positioned as mentioned above.



(2) Bucket width

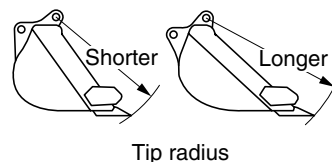
The wider the bucket is, the worse the bucket penetration is. Generally speaking, a wide bucket is recommended for excavating soil that can be broken easily. A narrow bucket is better suited for work on hard soil.

The width of the bucket must be limited also from the point of durability of the bucket, arm, boom and their hinge pins and bushings,. If the width is too great, it will cause excessive twist on the relevant parts, resulting in premature breakage or wear.



(3) Tip radius

The tip radius also affects the digging force of the bucket. If the bucket cylinder is provided with the same pushing force, the bucket with the shorter tip radius is better able to dig hard soil than the bucket with the longer tip radius.



The bucket width and the tip radius should be selected with the combination of the digging forces mentioned above in order to have appropriate bucket penetration.

When you need the values for allowable bucket width and bucket penetration force for each model, you can request and get the figures from Komatsu through your distributor.

Bucket and Arm Combinations

EXCAVATORS (BACKHOE)

This shows the bucket sizes currently available for respective models produced in various Komatsu plants, in relation with the arm length.

All allowable sizes from the concept of machine stability in "BUCKET SELECTION" are not shown, but it is possible for Komatsu plants to develop the various size buckets according to the theory of "BUCKET SELECTION", if it is requested through a distributor.

The theory of "BUCKET SELECTION" can be applied when a bucket is procured from a local attachment manufacturers. But the quality of the bucket from a local supplier can not be guaranteed by Komatsu.

These charts are based on over-side stability with fully loaded bucket at maximum reach.							
<input type="radio"/> General purpose use, weight up to 1.8 t/m ³ (3000 lb/cu.yd) <input type="checkbox"/> General purpose use, weight up to 1.5 t/m ³ (2500 lb/cu.yd) <input type="radio"/> Light duty work, weight up to 1.2 t/m ³ (2000 lb/cu.yd) <input type="checkbox"/> Not usable.							
Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters)	Arm length m (ft.in)		
SAE, PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without side cutters mm (in)	With side cutters mm (in)				
PC01-1					0.48 (1'7")		
0.008 (0.01)	0.007 (0.009)	250 (9.8")	265 (10.4")	7 (15)	○	—	
PC09-1					0.684 (2'3")	0.687(2'3")	0.884 (2'11")
0.017 (0.022)	—	225 (8.9")	250 (9.8")	11 (24)	○	○	○
0.022 (0.029)*	—	325 (12.8")	350 (13.8")	14 (31)	○	○	○
0.025 (0.033)	—	375 (14.8")	400 (15.7")	15 (33)	○	×	×
PC14R-3					0.88 (2'11")		
0.03 (0.04)	—	250 (9.8")	—	19 (42)	○	1.13 (3'8")	
0.035(0.046)	—	300 (11.8")	—	20 (44)	○	○	
0.04 (0.05)*	—	350 (13.8")	—	22 (48)	○	○	
0.05 (0.065)	—	400 (15.7")	—	23 (51)	○	×	
0.06 (0.08)	—	450 (17.7")	—	25 (55)	○	×	
PC16R-3					0.965 (2'2")		
0.03 (0.04)	—	250 (9.8")	—	19 (42)	○	○	
0.035(0.046)	—	300 (11.8")	—	20 (44)	○	○	
0.04 (0.05)*	—	350 (13.8")	—	22 (48)	○	○	
0.05 (0.065)	—	400 (15.7")	—	23 (51)	○	×	
0.06 (0.08)	—	450 (17.7")	—	25 (55)	○	×	
PC18MR-3					0.965 (3'2")		
0.022 (0.029)	0.02 (0.03)	250 (9.8")	300 (11.8")	—	○	○	
0.04 (0.05)	0.035 (0.05)	350 (13.8")	400 (15.7")	—	○	○	
0.044 (0.06)	0.04 (0.052)	400 (15.7")	450 (17.7")	—	○	×	
PC20MR-3					0.97 (3'2")		
0.033 (0.043)	0.03 (0.04)	250 (9.8")	320 (12.6")	32 (70)	○	○	
0.044 (0.058)	0.04 (0.05)	350 (13.8")	420 (16.2")	37 (82)	○	○	
0.066 (0.086)	0.06 (0.08)	430 (16.9")	500 (19.7")	48 (106)	○	○	
0.08 (0.10)	0.07 (0.09)	530 (20.9")	600 (23.6")	52 (115)	○	×	
PC27MR-3					1.1 (3'7")		
0.035 (0.046)	0.03 (0.04)	250 (10")	320 (12.6")	—	○	○	
0.044 (0.058)	0.04 (0.05)	280 (11")	350 (13.8")	—	○	○	
0.08 (0.10)	0.07 (0.09)	430 (17")	500 (19.7")	—	○	○	
0.09 (0.12)	—	430 (21")	500 (19.7")	—	○	×	
PC30MR-3					1.24 (4'1")		
0.035 (0.046)	0.03 (0.04)	250 (9.8")	320 (12.6")	50 (110)	○	○	
0.044 (0.058)	0.04 (0.05)	280 (11.0")	350 (13.8")	52 (115)	○	○	
0.09 (0.12)	0.08 (0.10)	430 (16.9")	500 (19.7")	63 (139)	○	×	
0.11 (0.14)	0.10 (0.13)	530 (20.9")	600 (23.6")	81 (178)	○	×	
PC35MR-3					1.37 (4'6")		
0.055 (0.072)	0.05 (0.065)	350 (13.8")	420 (16.5")	59 (130)	○	○	
0.09 (0.12)	0.08 (0.10)	430 (16.9")	500 (19.7")	78 (172)	○	○	
0.11 (0.143)	0.10 (0.13)	530 (20.9")	600 (23.6")	83 (183)	○	×	
0.13 (0.17)	0.12 (0.16)	630 (24.8")	700 (27.6")	98 (216)	○	×	

* Strengthened bucket

Bucket and Arm Combinations

EXCAVATORS (BACKHOE)

These charts are based on over-side stability with fully loaded bucket at maximum reach.

- General purpose use, weight up to 1.8 t/m³ (3000 lb/cu.yd)
- General purpose use, weight up to 1.5 t/m³ (2500 lb/cu.yd)
- ⊙ Light duty work, weight up to 1.2 t/m³ (2000 lb/cu.yd)
- × Not usable.

Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters)	Arm length m (ft.in)		
SAE, PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without side cutters mm (in)	With side cutters mm (in)				
PC45MR-3					1.375 (4'6")		1.77 (5'10")
0.055 (0.07)	0.05 (0.065)	300 (11.8")	370 (14.6")	89 (196)	○	○	
0.11 (0.14)	0.10 (0.13)	430 (16.9")	500 (19.7")	94 (207)	○	○	
0.14 (0.18)	0.13 (0.17)	530 (20.9")	600 (23.6")	105 (231)	○	×	
0.16 (0.21)	0.12 (0.18)	580 (22.8")	650 (25.6")	121 (267)	⊙	×	
PC55MR-3					1.64 (5'5")		2.0 (6'7")
0.055 (0.07)	0.05 (0.065)	300 (11.8")	370 (14.6")	89 (196)	○	○	
0.11 (0.14)	0.10 (0.13)	430 (16.9")	500 (19.7")	94 (207)	○	○	
0.16 (0.21)	0.21 (0.18)	580 (22.8")	650 (25.6")	121 (267)	○	×	
PC78US-8					1.65 (5'5")	2.25 (7'5")	
0.09 (0.12)	0.08 (0.10)	350 (13.8")	450 (17.7")	145 (320)	○	○	—
0.12 (0.16)	0.11 (0.14)	450 (17.7")	550 (21.7")	160 (355)	○	○	—
0.20 (0.26)	0.18 (0.24)	550 (21.7")	650 (25.6")	185 (410)	○	○	—
0.28 (0.37)	0.25 (0.33)	650 (25.6")	750 (29.5")	210 (465)	○	○	—
0.34 (0.45)	0.30 (0.39)	755 (29.7")	—	210 (465)	○	×	—
PC80MR-3					1.65 (5'5")	1.9 (6'3")	2.25 (7'5")
0.086 (0.11)	—	300 (11.8")	—	120 (265)	○	○	○
0.128 (0.17)	—	400 (15.7")	—	130 (287)	○	○	○
0.171 (0.22)	—	500 (19.7")	—	142 (313)	○	○	○
0.2 (0.26)	—	600 (23.6")	—	155 (342)	○	○	○
0.232 (0.30)	—	700 (27.6")	—	168 (370)	○	○	⊙
0.265 (0.35)	—	800 (31.5")	—	180 (397)	○	○	⊙
PC88MR-8					1.65 (5'5")	2.25 (7'5")	
0.09 (0.12)	0.08 (0.10)	350 (13.8")	450 (17.7")	145 (320)	○	○	—
0.12 (0.16)	0.11 (0.14)	450 (17.7")	550 (21.7")	160 (353)	○	○	—
0.20 (0.26)	0.18 (0.24)	550 (21.7")	650 (25.6")	185 (408)	○	○	—
0.28 (0.37)	0.25 (0.33)	650 (25.6")	750 (29.5")	210 (463)	○	○	—
0.34 (0.45)	0.30 (0.39)	750 (29.7")	—	210 (463)	○	×	—
PC110R-1					1.85 (6'1")	2.0 (6'7")	2.3 (7'7")
0.093 (0.12)	—	300 (11.8")	—	168 (370)**	○	○	○
0.139 (0.18)	—	400 (15.7")	—	194 (428)**	○	○	○
0.181 (0.24)	—	500 (19.7")	—	218 (481)**	○	○	○
0.225 (0.29)	—	600 (23.6")	—	234 (516)**	○	○	○
0.27 (0.35)	—	700 (27.6")	—	252 (556)**	○	○	○
0.314 (0.41)	—	800 (31.5")	—	270 (595)**	○	○	○
0.36 (0.47)	—	900 (35.4")	—	294 (648)**	○	○	○
0.4 (0.52)	—	1000 (39.4")	—	320 (705)**	○	○	○
PC120-6, PC130-8					2.1 (6'11")	2.50 (8'2")	3.00 (9'10")
0.18 (0.24)	0.16 (0.21)	450 (17.7")	570 (22.4")	256 (564)	○	○	○
0.28 (0.37)	0.26 (0.34)	600 (23.6")	720 (28.3")	303 (668)	○	○	○
0.36 (0.47)	0.33 (0.43)	700 (27.6")	820 (32.3")	330 (728)	○	○	○
0.50 (0.65)	0.45 (0.59)	859 (33.8")	979 (38.5")	399 (880)	○	○	×
0.60 (0.78)	0.55 (0.72)	1000 (39.4")	—	436 (882)**	○	○	×

* Strengthened bucket

** Without side cutters

For the source of each model, see the tables from 2A-11 to 2A-28.

Bucket and Arm Combinations

EXCAVATORS (BACKHOE)

These charts are based on over-side stability with fully loaded bucket at maximum reach.

- General purpose use, weight up to 1.8 t/m³ (3000 lb/cu.yd)
- General purpose use, weight up to 1.5 t/m³ (2500 lb/cu.yd)
- ⊙ Light duty work, weight up to 1.2 t/m³ (2000 lb/cu.yd)
- X Not usable.

Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters)	Arm length m (ft.in)		
SAE, PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without side cutters mm (in)	With side cutters mm (in)		2.1 (6'11")	2.50 (8'2")	3.00 (9'10")
PC130-8**					2.1 (6'11")	2.50 (8'2")	3.00 (9'10")
0.25 (0.33)	—	500 (19.7")	—	335 (739)*	○	○	○
0.32 (0.42)	—	600 (23.6")	—	375 (827)*	○	○	○
0.40 (0.52)	—	700 (27.6")	—	390 (860)*	○	○	○
0.48 (0.63)	—	800 (31.5")	—	470 (1036)*	○	○	○
0.56 (0.73)	—	900 (35.4")	—	475 (1047)*	○	○	□
0.64 (0.84)	—	1000 (39.4")	—	505 (1113)*	○	□	□
0.72 (0.94)	—	1100 (43.3")	—	560 (1235)*	□	○	○
0.80 (1.05)	—	1200 (47.2")	—	620 (1367)*	○	X	X
PC130-7*⁶					2.1 (6'11")	2.50 (8'2")	3.00 (9'10")
0.36 (0.47)	—	700 (27.6")	825 (32.5")	361 (796)	○	○	○
0.45 (0.59)	—	833 (32.8")	958 (37.7")	395 (871)	○	○	○
0.53 (0.69)	—	859 (33.8")	984 (38.7")	433 (955)	○	○	□
0.64 (0.84)	—	1000 (39.4")	1125 (44.3")	485 (1069)	○	□	□
PC138US-8					2.1 (6'11")	2.50 (8'2")	3.00 (9'10")
0.18 (0.24)	0.16 (0.21)	450 (17.7")	570 (22.4")	256 (565)	○	○	○
0.28 (0.37)	0.26 (0.34)	600 (23.6")	720 (28.3")	303 (670)	○	○	○
0.36 (0.50)	0.33 (0.43)	700 (27.6")	820 (32.3")	330 (730)	○	○	○
0.50 (0.65)	0.45 (0.59)	859 (33.8")	979 (38.5")	399 (880)	○	○	X
0.60 (0.78)	0.55 (0.72)	1000 (39.4")	—	436 (960)*	○	○	X
PC138US-8*⁵					2.1 (6'11")	2.50 (8'2")	3.00 (9'10")
0.25 (0.33)	—	500 (19.7")	—	325 (716)*	○	○	○
0.32 (0.42)	—	600 (23.6")	—	350 (772)*	○	○	○
0.40 (0.52)	—	700 (27.6")	—	390 (860)*	○	○	○
0.48 (0.63)	—	800 (31.5")	—	440 (970)*	○	○	○
0.56 (0.73)	—	900 (35.4")	—	475 (1047)*	○	○	X
0.64 (0.84)	—	1000 (39.4")	—	505 (1113)*	□	□	X
0.72 (0.94)	—	1100 (43.3")	—	560 (1235)*	□	X	X
PC138USLC-8					2.50 (8'2")	3.00 (9'10")	
0.26 (0.34)	—	457 (18")	—	332 (732)*	○	○	○
0.38 (0.50)	—	610 (24")	—	387 (853)*	○	○	○
0.51 (0.67)	—	762 (30")	—	437 (963)*	○	○	○
0.63 (0.83)	—	914 (36")	—	499 (1099)*	○	○	□
0.76 (1.00)	—	1067 (42")	—	559 (1232)*	○	□	○
PC160LC-7*⁶					2.25 (7'5")	2.61 (8'7")	2.90 (9'6")
0.65 (0.85)	0.60 (0.78)	966 (38.0")	1088 (42.8)	—	○	○	X
0.75 (0.98)	0.70 (0.92)	1100 (43.3")	—	—	○	○	X
PC160LC-7E0**					2.25 (7'5")	2.61 (8'7")	2.90 (9'6")
0.38 (0.50)	—	600 (23.6")	—	385 (849)*	○	○	○
0.47 (0.61)	—	700 (27.6")	—	435 (959)*	○	○	○
0.56 (0.73)	—	800 (31.5")	—	465 (1025)*	○	○	○
0.66 (0.86)	—	900 (35.4")	—	495 (1091)*	○	○	○
0.75 (0.98)	—	1000 (39.4")	—	530 (1168)*	□	□	□
0.94 (1.23)	—	1200 (47.2")	—	615 (1356)*	○	○	X
PC160LC-8					2.25 (7'5")	2.61 (8'7")	2.90 (9'6")
0.60 (0.78)	0.55 (0.72)	900 (35.4")	1000 (39.4")	474 (1040)	○	○	○
0.65 (0.85)	0.60 (0.78)	966 (38.0")	1066 (42.0)	499 (1100)	○	○	X
0.70 (0.92)	0.65 (0.85)	1100 (43.3")	—	504 (1100)*	○	○	X

* Without side cutters

** UK source

*⁵ For UK

*⁶ China source

For the source of each model, see the tables from 2A-11 to 2A-28.

Bucket and Arm Combinations

EXCAVATORS (BACKHOE)

These charts are based on over-side stability with fully loaded bucket at maximum reach.

- General purpose use, weight up to 1.8 t/m³ (3000 lb/cu.yd)
- General purpose use, weight up to 1.5 t/m³ (2500 lb/cu.yd)
- ⊙ Light duty work, weight up to 1.2 t/m³ (2000 lb/cu.yd)
- X Not usable.

Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters)	Arm length m (ft.in)		
SAE, PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without side cutters mm (in)	With side cutters mm (in)		2.25 (7'5")	2.61 (8'7")	2.90 (9'6")
PC180LC-7E0, PC180NLC-7E0					2.25 (7'5")	2.61 (8'7")	2.90 (9'6")
0.38 (0.50)	—	600 (23.6")	—	385 (849)*	○	○	○
0.47 (0.61)	—	700 (27.6")	—	435 (959)*	○	○	○
0.56 (0.73)	—	800 (31.5")	—	465 (1025)*	○	○	○
0.66 (0.86)	—	900 (35.4")	—	495 (1092)*	○	○	○
0.75 (0.98)	—	1000 (39.4")	—	530 (1168)*	○	○	□
0.94 (1.23)	—	1200 (47.2")	—	615 (1356)*	□	□	⊙
1.14 (1.49)	—	1400 (55.1")	—	695 (1532)*	○	○	X
PC200-8, PC200LC-8					1.84 (6')	2.41 (7'11")	2.93 (9'7")
0.50 (0.65)	0.45 (0.59)	750 (29.5")	875(34.4")	478 (1050)	○	○	○
0.80 (1.05)	0.70 (0.92)	1045 (41.1")	1170(46.1")	635(1400)	○	○	○
0.93 (1.22)	0.80 (1.05)	1200 (47.2")	1325(52.2")	696(1530)	□	□	⊙
1.05 (1.37)	0.90 (1.18)	1330 (52.4")	1455(57.3")	757 (1670)	□	□	X
1.17 (1.53)	1.00 (1.31)	1450 (57.1")	—	*940 (2070)	⊙	⊙	X
PC200-7, PC200LC-7, PC200-7*6					1.84 (6')	2.41 (7'11")	2.93 (9'7")
0.50 (0.65)	0.45 (0.59)	750 (29.5")	855 (33.7")	478 (1050)	○	○	○
0.80 (1.05)	0.70 (0.92)	1045 (41.1")	1150 (45.3")	645 (1420)	○	○	○
0.93 (1.22)	0.80 (1.05)	1200 (47.2")	1305 (51.4")	696 (1530)	□	□	⊙
1.05 (1.37)	0.90 (1.18)	1330 (52.4")	1435 (56.5")	757 (1670)	□	□	X
1.17 (1.53)	1.00 (1.31)	1450 (57.1")	—	940 (2070)*	⊙	○	X
PC200-8*5, PC200LC-8*5					1.84 (6')	2.41 (7'11")	2.93 (9'7")
0.80 (1.05)	0.70 (0.92)	1045 (41.1")	—	—	○	○	○
0.80 (1.05)*4	0.70 (0.92)	1050 (41.3")	—	—	○	○	○
0.90 (1.18)	0.80 (1.05)	1200 (47.2")	—	—	□	□	⊙
1.0 (1.31)*4	0.90 (1.18)	1000 (39.4")	—	—	□	□	X
PC200-8*7, PC200LC-8***					2.41 (7'11")	2.93 (9'7")	3.90 (12'9")
0.50 (0.66)	—	610 (24")	—	538 (1187)	○	○	○
0.67 (0.88)	—	762 (30")	—	661 (1457)	○	○	○
0.85 (1.13)	—	914 (36")	—	753 (1659)	○	○	□
1.02 (1.36)	—	1067 (42")	—	822 (1812)	○	□	⊙
1.20 (1.59)	—	1219 (48")	—	921 (2830)	□	⊙	X

* Without side cutters

** UK source

*** USA source

*4 Heavy-duty bucket

*5 China source

*6 Indonesia source

*7 Thailand source

For the source of each model, see the tables from 2A-11 to 2A-28.

Bucket and Arm Combinations

EXCAVATORS (BACKHOE)

These charts are based on over-side stability with fully loaded bucket at maximum reach.

○ General purpose use, weight up to 1.8 t/m³ (3000 lb/cu.yd)

□ General purpose use, weight up to 1.5 t/m³ (2500 lb/cu.yd)

⊙ Light duty work, weight up to 1.2 t/m³ (2000 lb/cu.yd)

X Not usable.

Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters)	Arm length m (ft.in)		
SAE, PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without side cutters mm (in)	With side cutters mm (in)		1.8 (5'11")	2.4 (7'10")	2.9 (9'6")
PC210-8**					1.8 (5'11")	2.4 (7'10")	2.9 (9'6")
0.43 (0.56)	—	600 (23.6")	—	570 (1257)	○	○	○
0.52 (0.68)	—	700 (27.6")	—	610 (1345)	○	○	○
0.63 (0.82)	—	800 (31.5")	—	650 (1433)	○	○	○
0.73 (0.95)	—	900 (35.4")	—	690 (1521)	○	○	○
0.84 (1.10)	—	1000 (39.4")	—	740 (1631)	○	○	○
0.94 (1.23)	—	1100 (43.3")	—	820 (1808)	○	○	○
1.05 (1.37)	—	1200 (47.2")	—	850 (1874)	○	○	○
1.16 (1.52)	—	1300 (51.2")	—	880 (1940)	○	○	○
1.26 (1.65)	—	1400 (55.1")	—	950 (1433)	○	○	○
1.37 (1.79)	—	1500 (59.1")	—	1000 (2205)	□	○	○
1.49 (1.95)	—	1600 (63.0")	—	1100 (2425)	□	□	□
1.58 (2.07)	—	1700 (66.9")	—	1150 (2535)	○	X	X
1.68 (2.20)	—	1800 (70.9")	—	1200 (2645)	X	X	X
PC210LC-8**, PC210NLC-8**					1.8 (5'11")	2.4 (7'10")	2.9 (9'6")
0.43 (0.56)	—	600 (23.6")	—	570 (1257)	○	○	○
0.52 (0.68)	—	700 (27.6")	—	610 (1345)	○	○	○
0.63 (0.82)	—	800 (31.5")	—	650 (1433)	○	○	○
0.73 (0.95)	—	900 (35.4")	—	690 (1521)	○	○	○
0.84 (1.10)	—	1000 (39.4")	—	740 (1631)	○	○	○
0.94 (1.23)	—	1100 (43.3")	—	820 (1808)	○	○	○
1.05 (1.37)	—	1200 (47.2")	—	850 (1874)	○	○	○
1.16 (1.52)	—	1300 (51.2")	—	880 (1940)	○	○	○
1.26 (1.65)	—	1400 (55.1")	—	950 (1433)	○	○	○ (NLC:□)
1.37 (1.79)	—	1500 (59.1")	—	1000 (2205)	○ (NLC:□)	○	□ (NLC:X)
1.49 (1.95)	—	1600 (63.0")	—	1100 (2425)	□ (NLC:⊙)	□ (NLC:⊙)	⊙ (NLC:X)
1.58 (2.07)	—	1700 (66.9")	—	1150 (2535)	□ (NLC:X)	(NLC:X)	X
1.68 (2.20)	—	1800 (70.9")	—	1200 (2645)	⊙ (NLC:X)	X	X
PC210-8*5, PC210LC-8*5					1.84 (6')	2.41 (7'11")	2.93 (9'7")
0.80 (1.05)*4	0.70 (0.92)	1050 (41.3")	—	—	○	○	○
0.90 (1.18)	0.80 (1.05)	1200 (47.2")	—	—	□	□	⊙
1.0 (1.31)*4	0.90 (1.18)	1004 (39.5")	—	—	□	□	X
PC220-8, PC220LC-8					2.00 (6'7")	2.50 (8'2")	3.05 (10'0")
0.72 (0.94)	0.65 (0.85)	900 (35.4")	1005 (39.6")	658 (1450)	○	○	○
1.00 (1.31)	0.90 (1.18)	1155 (45.5")	1260 (49.6")	734 (1620)	○	○	○
1.14 (1.49)	1.00 (1.31)	1300 (51.2")	1405 (55.3")	793 (1750)	○	□	□
1.26 (1.65)	1.10 (1.44)	1400 (55.1")	1505 (59.3")	845 (1860)	○	□	⊙
PC220-7, PC220LC-7					2.00 (6'7")	2.50 (8'2")	3.05 (10')
0.72 (0.94)	0.65 (0.85)	900 (35.4")	1005 (39.6")	658 (1450)	○	○	○
1.00 (1.31)	0.90 (1.18)	1155 (45.5")	1260 (49.6")	734 (1620)	○	○	○
1.14 (1.49)	1.00 (1.31)	1300 (51.2")	1405 (55.3")	793 (1750)	○	□	□
1.26 (1.65)	1.10 (1.44)	1400 (55.1")	1505 (59.3")	845 (1860)	○	□	⊙

* Without side cutters

** UK source

*** USA source

*4 Heavy-duty bucket

*5 China source

*6 For UK

For the source of each model, see the tables from 2A-11 to 2A-28.

Bucket and Arm Combinations

EXCAVATORS (BACKHOE)

These charts are based on over-side stability with fully loaded bucket at maximum reach.

- General purpose use, weight up to 1.8 t/m³ (3000 lb/cu.yd)
- General purpose use, weight up to 1.5 t/m³ (2500 lb/cu.yd)
- ⊙ Light duty work, weight up to 1.2 t/m³ (2000 lb/cu.yd)
- X Not usable.

Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters)	Arm length m (ft.in)		
SAE, PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without side cutters mm (in)	With side cutters mm (in)		2.00 (6'7")	2.50 (8'2")	3.05 (10')
PC220-8*5					2.00 (6'7")	2.50 (8'2")	3.05 (10')
1.00 (1.31)	0.90 (1.18)	1150 (45.3")	—	—	○	○	○
1.00 (1.31)**4	0.90 (1.18)	1155 (45.5")	—	—	○	○	○
1.17 (1.49)	1.00 (1.31)	1300 (51.2")	—	—	○	□	□
1.20 (1.57)**4	—	1140 (44.9")	—	—	○	□	⊙
1.26 (1.65)	1.10 (1.44)	1400 (55.1")	—	—	○	□	⊙
PC220LC-8***					3.05 (10')		3.5 (11'6")
0.58 (0.76)	—	610 (24")	—	765 (1686)	○		○
0.78 (1.02)	—	762 (30")	—	774 (1707)	○		○
0.99 (1.29)	—	914 (36")	—	869 (1915)	○		○
1.20 (1.57)	—	1067 (42")	—	949 (2092)	○		○
1.41 (1.85)	—	1219 (48")	—	1045 (2304)	□		⊙
PC228US-3E0, PC228USLC-3E0					2.4 (7'10")		2.9 (9'6")
0.50 (0.65)	0.45 (0.59)	750 (29.5")	885 (34.8")	478 (1,050)	○		○
0.60 (0.78)	0.55 (0.72)	870 (34.3")	974 (38.4")	536 (1,180)	○		○
0.80 (1.05)	0.70 (0.92)	1045 (41.1")	1150 (45.3")	626 (1,380)	○		○
0.90 (1.18)	0.80 (1.05)	1200 (47.2")	1305 (51.4")	678 (1,490)	□		⊙
1.05 (1.37)	0.90 (1.18)	1330 (52.4")	1435 (56.5")	757 (1,670)	□		X
PC228USLC-3E0*6					2.9 (9'6")		
0.48 (0.63)	—	600 (23.6")	—	480 (1058)			○
0.55 (0.72)	—	700 (27.6")	—	530 (1168)			○
0.63 (0.82)	—	800 (31.5")	—	580 (1279)			○
0.71 (0.93)	—	900 (35.4")	—	610 (1345)			○
0.78 (1.02)	—	1000 (39.4")	—	650 (1433)			○
0.86 (1.15)	—	1100 (43.3")	—	700 (1543)			○
0.96 (1.26)	—	1200 (47.2")	—	760 (1675)			○
1.03 (1.35)	—	1300 (51.2")	—	810 (1786)			○
1.11 (1.45)	—	1400 (55.1")	—	870 (1918)			○
1.19 (1.56)	—	1500 (59.1")	—	930 (2050)			○ (LC: ○)
1.49 (1.95)	—	1600 (63.0")	—	1100 (2425)			○ (LC: □)
1.58 (2.07)	—	1700 (66.9")	—	1150 (2535)			X
1.68 (2.20)	—	1800 (70.9")	—	1200 (2645)			X
PC230NHD-8					1.8 (5'11")	2.4 (7'10")	2.9 (9'6")
0.43 (0.56)	—	600 (23.6")	—	570 (1257)	○	○	○
0.525 (0.69)	—	700 (27.6")	—	605 (1334)	○	○	○
0.63 (0.82)	—	800 (31.5")	—	650 (1433)	○	○	○
0.73 (0.95)	—	900 (35.4")	—	690 (1521)	○	○	○
0.84 (1.10)	—	1000 (39.4")	—	740 (1631)	○	○	○
0.94 (1.23)	—	1100 (43.3")	—	820 (1808)	○	○	○
1.05 (1.37)	—	1200 (47.2")	—	850 (1874)	○	○	○
1.16 (1.52)	—	1300 (51.2")	—	880 (1940)	○	○	○
1.26 (1.65)	—	1400 (55.1")	—	950 (2094)	○	○	○
1.37 (1.79)	—	1500 (59.1")	—	1000 (2205)	○	○	○
1.49 (1.95)	—	1600 (63.0")	—	1100 (2425)	□	□	□
1.58 (2.07)	—	1700 (66.9")	—	1150 (2535)	□	X	X

* Without side cutters
*** USA source

*4 Heavy-duty bucket
*5 China source
*6 For UK

For the source of each model, see the tables from 2A-11 to 2A-28.

Bucket and Arm Combinations

EXCAVATORS (BACKHOE)

These charts are based on over-side stability with fully loaded bucket at maximum reach.

- General purpose use, weight up to 1.8 t/m³ (3000 lb/cu.yd)
- General purpose use, weight up to 1.5 t/m³ (2500 lb/cu.yd)
- ⊙ Light duty work, weight up to 1.2 t/m³ (2000 lb/cu.yd)
- × Not usable.

Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters)	Arm length m (ft.in)			
SAE, PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without side cutters mm (in)	With side cutters mm (in)		2.0 (6'7")	2.5 (8'2")	3.0 (9'10")	3.5 (11'6")
PC240LC-8, PC240NLC-8					2.0 (6'7")	2.5 (8'2")	3.0 (9'10")	3.5 (11'6")
0.47 (0.61)		600 (23.6")		670 (1480)	○	○	○	○
0.70 (0.92)		800 (31.5")		750 (1650)	○	○	○	○
0.93 (1.22)		1000 (39.4")		840 (1850)	○	○	○	○
1.17 (1.53)		1200 (47.2")		960 (2120)	○	○	○	○
1.41 (1.53)		1400 (55.1")		1050 (2310)	○	○	○	○ (NLC: □)
1.53 (2.00)		1500 (59.1")		1120 (2470)	○	○ (NLC: □)	□ (NLC: ○)	⊙ (NLC: ×)
1.65 (2.17)		1600 (63.0")		1170 (2580)	○ (NLC: □)	□ (NLC: ○)	⊙ (NLC: ×)	×
1.79 (2.34)		1800 (70.9")		1250 (2760)	□ (NLC: ×)	⊙ (NLC: ×)	×	×
1.89 (2.47)		2000 (78.7")		1300 (2870)	⊙ (NLC: ×)	×	×	×
PC240LC-8^{*5}					3.05 (10')			
1.00 (1.31)	0.90 (1.18)	1150 (45.3")	—	—	○			
1.00 (1.31) ^{*4}	0.90 (1.18)	1155 (45.5")	—	—	○			
1.20 (1.57) ^{*4}	—	1140 (44.9")	—	—	□			
PC270-8, PC270LC-8					2.5 (8'2")	3.0 (10'0")	3.5 (11'6")	
1.14 (1.49)	1.00 (1.31)	1300 (51.2")	1405 (55.3")	793 (1750)	○	○	○	
1.26 (1.65)	1.10 (1.44)	1400 (55.1")	1505 (59.3")	845 (1860)	○	○	○	
PC270-7^{*5}					3.05 (10'0")			
1.3 (1.70)	—	1420 (55.9")	1540 (60.6")	1140 (2513)	○			
1.3 (1.70) ^{*4}	—	1435 (56.5")	1500 (59.0")	1375 (3031)	○			
PC270LC-8^{***}					3.05 (10')		3.5 (11'6")	
0.58 (0.76)	—	610 (24")	—	765 (1686)	○		○	
0.78 (1.02)	—	762 (30")	—	774 (1707)	○		○	
0.99 (1.29)	—	914 (36")	—	869 (1915)	○		○	
1.20 (1.57)	—	1067 (42")	—	949 (2092)	○		○	
1.41 (1.85)	—	1219 (48")	—	1045 (2304)	○		□	
PC290LC-8^{**}, PC290NLC-8^{**}					2.0 (6'7")	2.5 (8'2")	3.05 (10')	3.5 (11'6")
0.85 (1.11)	—	800 (31.5")	—	890 (1960)	○	○	○	○
1.13 (1.48)	—	1000 (39.4")	—	1010 (2230)	○	○	○	○
1.42 (1.86)	—	1200 (47.2")	—	1160 (2560)	○	○	○	○
1.74 (2.28)	—	1400 (55.1")	—	1290 (2840)	○	○	○	□
1.87 (2.45)	—	1500 (59.1")	—	1350 (2980)	○	○	□	⊙
2.02 (2.64)	—	1600 (63.0")	—	1400 (3090)	○	○	⊙	×
PC300-7, PC300LC-7, PC300-8, PC300LC-8					2.2 (7'3")	2.55 (8'4")	3.185 (10'5")	4.02 (13'2")
0.52 (0.68)	0.48 (0.63)	610 (24")	740 (29.1")	664 (1460)	○	○	○	○
1.14 (1.49)	1.00 (1.31)	1145 (45.1")	1275 (50.2")	900 (1980)	○	○	○	○
1.40 (1.83)	1.20 (1.57)	1340 (52.8")	1445 (56.9")	1015 (2240)	○	○	○	⊙
1.40 (1.83) ^{**}	1.20 (1.57)	1458 (54.7")	—	1508 (3320)	○	○	○	×
1.60 (2.09)	1.40 (1.83)	1515 (59.6")	1645 (64.8")	1102 (2430)	□	□	□	×
1.80 (2.35)	1.60 (2.09)	1700 (66.9")	—	1115 (2460)	⊙	⊙	⊙	×

* Without side cutters

** UK source

*** USA source

^{*4} Heavy-duty bucket

^{*5} China source

For the source of each model, see the tables from 2A-11 to 2A-28.

Bucket and Arm Combinations

EXCAVATORS (BACKHOE)

These charts are based on over-side stability with fully loaded bucket at maximum reach.

- General purpose use, weight up to 1.8 t/m³ (3000 lb/cu.yd)
- General purpose use, weight up to 1.5 t/m³ (2500 lb/cu.yd)
- ⊙ Light duty work, weight up to 1.2 t/m³ (2000 lb/cu.yd)
- X Not usable.

Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters)	Arm length m (ft.in)			
SAE, PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without side cutters mm (in)	With side cutters mm (in)					
PC300-8*4, PC300LC-8*4, PC300/300LC-8(SE spec.)*4					2.22 (7'3")	2.55 (8'4")	3.185 (10'5")	
0.52 (0.68)	0.48 (0.63)	610 (24")	740 (29.1")	664 (1460)	○	○	○	
1.14 (1.49)	1.00 (1.31)	1145 (45.1")	1275 (50.2")	900 (1980)	○	○	○	
1.40 (1.83)	1.20 (1.57)	1340 (52.8")	1445 (56.9")	1015 (2240)	○	○	○	
1.60 (2.09)	1.40 (1.83)	1515 (59.6")	—	1102 (2430)	□	□	□	
1.80 (2.35)	1.60 (2.09)	1700 (66.9")	—	1115 (2460)*	○	○	○	
1.40 (1.83)*6	1.20 (1.57)	1458 (54.7")	—	1508 (3320)	○	○	○	
2.30 (3.01)*7	2.14 (2.80)	1615 (63.6)	—	1961 (3320)	○	⊙	X	
PC300LC-8***, PC300HD-8					2.54 (8'4")	3.19 (10'5")	4.02 (13'2")	
0.68 (0.89)	—	610 (24")	—	878 (1935)	○	○	○	
0.93 (1.21)	—	762 (30")	—	1012 (2230)	○	○	○	
1.18 (1.54)	—	914 (36")	—	1102 (2430)	○	○	○	
1.44 (1.88)	—	1067 (42")	—	1221 (2691)	○	○	○	
1.70 (2.22)	—	1219 (48")	—	1308 (3146)	○	○	□	
1.96 (2.56)	—	1372 (54")	—	1427 (3146)	□	□	○	
PC350-7, PC350LC-7, PC350-8, PC350LC-8					3.185 (10'5")		—	
1.40 (1.83)*6	1.20 (1.57)	1458 (54.7")	—	1508 (3320)	○		—	
PC300-7*5					2.2 (7'3")	2.55 (8'4")	3.185 (10'5")	4.02 (13'2")
1.40 (1.83)	1.20 (1.57)	1340 (52.8")	1445 (56.9")	1012 (2231)	○	○	○	⊙
1.40 (1.83)*6	1.20 (1.57)	1340 (52.8")	1445 (56.9")	1301 (2868)	○	○	○	X
1.60 (2.09)	1.40 (1.83)	1515 (59.6")	1645 (64.8")	1196 (2637)	○	○	□	X
PC308USLC-3E0					3.045 (10'0")	3.5 (11'6")	4.2 (13'9")	
0.58 (0.76)	—	610 (24")	—	765 (1686)	○	○	○	
0.78 (1.02)	—	762 (30")	—	774 (1707)	○	○	○	
0.99 (1.29)	—	914 (36")	—	869 (1915)	○	○	○	
1.20 (1.57)	—	1067 (42")	—	949 (2092)	○	○	□	
1.41 (1.85)	—	1219 (48")	—	1045 (2304)	○	○	○	
1.63 (2.13)	—	1372 (54")	—	1142 (2518)	○	□	X	
PC350LC-8**, PC350NLC-8					2.22	2.55	3.19	4.02
0.85 (1.11)	—	800 (31.5")	—	880 (1940)	○	○	○	○
1.13 (1.48)	—	1000 (39.4")	—	1010 (2230)	○	○	○	○
1.42 (1.86)	—	1200 (47.2")	—	1160 (2560)	○	○	○	□
1.75 (2.29)	—	1400 (55.1")	—	1290 (2840)	○	○	○	□
1.87 (2.45)	—	1500 (59.1")	—	1350 (2980)	○	○	○	□
2.02 (2.64)	—	1600 (63.0")	—	1400 (3090)	○	○	○	○
2.32 (3.03)	—	1800 (70.9")	—	1520 (3350)	□	□	□	X
PC360-7					2.2	2.55	3.185	4.02
1.6 (2.09)	1.40 (1.83)	1515 (59.6")	1633 (64.3")	1615 (3560)	○	○	○	X
PC400-7, PC400LC-7, PC400-8, PC400LC-8, PC400-8R, PC400LC-8R					2.4	2.9	3.38	4.0
1.30 (1.70)	1.20 (1.57)	1120 (44.1")	1270 (50")	1115 (2458)	○	○	○	○
1.60 (2.09)	1.40 (1.83)	1270 (50")	1420 (55.9")	1197 (2639)	○	○	○	○
1.90 (2.49)	1.70 (2.22)	1475 (58.1")	1625 (64")	1358 (2873)	○	○	○	□
1.90 (2.49)*8	1.70 (2.22)	—	1625 (64")	1966 (3757)	○	○	○	X
2.06 (2.69)	1.80 (2.35)	1565 (61.6")	1715 (67.5")	1391 (3067)	□	□	□	○
2.10 (2.75)*8	1.90 (2.49)	—	1745 (68.7")	2035 (4490)	○	○	○	X
2.20 (2.88)	2.00 (2.62)	1715 (67.5")	—	1396 (3757)	○	⊙	○	X
PC400-7*5					3.38		—	
1.90 (2.49)*8	1.70 (2.22)	1438 (56.6")	1625 (64.0")	—	○		—	
2.06 (2.75)	1.80 (2.35)	1565 (61.6")	1715 (67.5")*7	—	○		—	

* Without side cutters

** UK source

*** USA source

*4 Indonesia source

*5 China source

*6 Rock bucket

*7 Not recommended for rock digging without ripping/blasting

*8 Quarry bucket

For the source of each model, see the tables from 2A-11 to 2A-28.

Bucket and Arm Combinations

EXCAVATORS (BACKHOE)

These charts are based on over-side stability with fully loaded bucket at maximum reach.

- General purpose use, weight up to 1.8 t/m³ (3000 lb/cu.yd)
- General purpose use, weight up to 1.5 t/m³ (2500 lb/cu.yd)
- ⊙ Light duty work, weight up to 1.2 t/m³ (2000 lb/cu.yd)
- X Not usable.

Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters)	Arm length m (ft.in)				
SAE, PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without side cutters mm (in)	With side cutters mm (in)		2.4	2.9	3.38	4.0	4.8
PC400LC-8***					2.4	2.9	3.38	4.0	4.8
1.12 (1.47)	—	762 (30")	—	1266 (2790)	○	○	○	○	○
1.35 (1.76)	—	914 (36")	—	1393 (3072)	○	○	○	○	○
1.64 (2.15)	—	1067 (42")	—	1536 (3386)	○	○	○	○	□
1.94 (2.54)	—	1219 (48")	—	1646 (3629)	○	○	○	□	○
2.25 (2.94)	—	1372 (54")	—	1790 (3947)	○	○	□	○	X
2.55 (3.34)	—	1524 (60")	—	1903 (4195)	□	□	○	X	X
2.87 (3.75)	—	1676 (66")	—	2045 (4509)	○	X	X	X	X
PC400LC-7 (SE spec.)					2.4		—		
2.8 (3.66)	—	1565 (61.6")	1715 (67.5")	1765 (3891)	○		—		
3.2 (4.19)	—	1785 (70.3")	1935 (76.2")	1902 (4193)	□		—		
PC450-7, PC450LC-7, PC450-8, PC450LC-8, PC450-8R, PC450LC-8R					3.38		—		
1.90 (2.49)	1.70 (2.22)	—	1625 (64.0")* ⁷	1966 (4330)	○		—		
2.10 (2.75)* ⁶	1.90 (2.49)	—	2035 (68.7")* ⁷	2035 (4490)	○		—		
PC450-8**, PC450LC-8**					2.4	2.9	3.38	4.0	4.8
1.34 (1.75)	—	1000 (39.4")	—	1450 (3197)	○	○	○	○	○
1.69 (2.4)	—	1200 (47.2")	—	1650 (3638)	○	○	○	○	○
2.20 (2.88)	—	1500 (59.0")	—	1940 (4277)	○	○	○	○	○
2.40 (3.14)	—	1600 (63.0")	—	2040 (4497)	○	○	○	○	□
2.76 (3.61)	—	1800 (70.9")	—	2180 (4806)	○	○	○	□	○
PC450-7*⁵					3.38		—		
2.10 (2.75)* ⁶	1.90 (2.49)	1560 (61.4")	1593 (62.7")* ⁷	—	○		—		
PC450LC-8HD**					2.4 (7'10")		2.9 (9'6")		
2.20 (2.88)	—	1500 (59.0")	—	1940 (4277)	○		○		
2.40 (3.14)	—	1600 (63.0")	—	2040 (4497)	○		○		
2.76 (3.61)	—	1800 (70.9")	—	2180 (4806)	○		○		
3.10 (4.05)	—	2000 (78.7")	—	2310 (5093)	□		□		
3.50 (4.58)	—	2200 (86.6")	—	2450 (5401)	○		○		
PC600-8, PC600LC-8, PC600-8R, PC600LC-8R					6.6	7.3	7.66		
2.0 (2.62)	1.8 (2.35)	1250 (49.2")	1430 (56.3")	2130 (4700)	2.9	3.5	3.5	4.3	5.2
2.3 (3.01)	2.1 (2.75)	1400 (55.1")	1580 (62.2")	2260 (4980)	—	—	○	○	○
2.7 (3.53)	2.4 (3.14)	1600 (63.0")	1780 (70.1")	2430 (5360)	—	—	○	X	X
2.8 (3.66)	2.5 (3.27)	1920 (75.6")	1920 (75.6")	3100 (6830)	—	—	—	—	—
3.1 (4.05)	2.8 (3.66)	2040 (80.3")	2000 (78.7")	3210 (7080)	X	○* ⁹	X	X	X
3.5 (4.58)	3.1 (4.05)	2110 (83.1")	2110 (83.1")	3280 (7230)	○	—	—	—	—
					6.6 (21'9")	7.3 (23'11")	7.66 (25'2")		
PC600-7, PC600LC-7					2.9 (9'6")	3.5 (11'6")	3.5 (11'6")	4.3 (14'1")	5.2 (17'1")
2.0 (2.62)	1.8 (2.35)	1250 (49.2")	1430 (56.3")	2200 (4850)	—	—	○	○	○
2.3 (3.01)	2.1 (2.75)	1400 (55.1")	1580 (62.2")	2382 (5250)	—	—	○	□	X
2.7 (3.53)	2.4 (3.14)	1600 (63.0")	1780 (70.1")	2505 (5520)	—	—	○	X	X
2.8 (3.66)	2.5 (3.27)	1870 (73.6")	1870 (73.6")	2981 (6570)	—	○	—	—	—
3.1 (4.05)	2.8 (3.66)	2000 (78.7")	2000 (78.7")	3100 (6830)	X	○* ⁹	X	X	X
3.5 (4.58)	3.1 (4.05)	2120 (83.5")	2120 (83.5")	3406 (7510)	○	—	—	—	—
PC600-8**					6.6 (21'9")	7.3 (23'11")	7.3 (23'11")		
2.4 (3.14)	2.1 (2.75)	1320 (52.0")	1400 (55.1")	2410 (5310)	2.9 (9'6")	3.5 (11'6")	2.9 (9'6")		
2.7 (3.53)	2.4 (3.14)	1600 (63.0")	1680 (66.1")	2795 (6160)	○	○	○		
2.8 (3.66)	2.5 (3.27)	1655 (65.2")	1705 (67.1")	2795 (6162)	○	○	○		
3.5 (4.58)	3.1 (4.05)	1850 (72.8")	1900 (74.8")	3325 (7330)	○	X	X		

- * Without side cutters
- ** UK source
- *** USA source

- *⁵ China source
- *⁶ Quarry bucket
- *⁷ With side shrouds
- *⁹ For heavy duty

For the source of each model, see the tables from 2A-11 to 2A-28.

Bucket and Arm Combinations

EXCAVATORS (BACKHOE)

These charts are based on over-side stability with fully loaded bucket at maximum reach.

- General purpose use, weight up to 2.1 t/m³ (3500 lb/cu.yd)
- General purpose use, weight up to 1.8 t/m³ (3000 lb/cu.yd)
- General purpose use, weight up to 1.5 t/m³ (2500 lb/cu.yd)
- ⊙ Light duty work, weight up to 1.2 t/m³ (2000 lb/cu.yd)
- X Not usable.

Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters)	Boom length m (ft, in)							
SAE, PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without side cutters mm (in)	With side cutters mm (in)		Arm length m (ft.in)							
					7.66 (25'2")		7.66 (25'2")					
					2.9 (9'6")		3.5 (11'6")					
PC600LC-8**												
2.4 (3.14)	2.1 (2.75)	1320 (52.0")	1400 (55.1")	2410 (5310)	○		○					
2.7 (3.53)	2.4 (3.14)	1600 (63.0")	1680 (66.1")	2795 (6160)	○		○					
2.8 (3.66)	2.5 (3.27)	1655 (65.2")	1705 (67.1")	2795 (6162)	○		X					
3.5 (4.58)	3.1 (4.05)	1850 (72.8")	1900 (74.8")	3325 (7330)	X		X					
PC750-7, PC800-8, PC800-8R					3.6 (11'10")		4.6 (15'1")		5.6 (18'4")			
2.8 (3.66)	2.5 (3.27)	1550 (61")	1695 (66.7")	2740 (6040)	○		○		○			
3.1 (4.05)	2.8 (3.66)	1700 (66.9")	1880 (74.0")	2960 (6530)	○		□		□			
3.4 (4.45)	3.0 (3.92)	1820 (71.7")	1920 (75.6")	3500 (7720)	□		X		X			
PC800-8, PC800-8R (SE spec.)					2.945 (9'8")							
4.0 (5.23)	3.5 (4.58)	2000 (78.7")	2100 (82.8")	3435 (7570)	○							
4.3 (5.62)	3.8 (4.97)	2150 (84.6")	2250 (88.7")	3870 (8530)	□							
4.5 (5.89)	4.0 (5.23)	2230 (87.8")	2330 (91.7")	4050 (8930)	□							
PC800-7, PC850-8, PC850-8R					3.6 (11'10")							
3.4 (4.45)	3.0 (3.92)	1820 (71.7")	1870 (73.6")	3500 (7720)	○							
PC800-7, PC850-8, PC850-8R (SE spec.)					2.945 (9'8")		3.6 (11'10")					
4.0 (5.23) ^{*9}	3.5 (4.58)	2000 (78.7")	2105 (82.9")	4000 (8820)	○		○					
4.0 (5.23)	3.5 (4.58)	2000 (78.7")	2105 (82.9")	3435 (7570)	○		X					
4.3 (5.62)	3.8 (4.97)	2150 (84.6")	2255 (88.8")	3870 (8530)	○		X					
4.5 (5.89)	4.0 (5.23)	2230 (87.8")	2330 (91.9")	4050 (8930)	□		X					
PC800-8**, PC800LC-8**					2.92 (9'7") ^{*7}		3.6 (11'10") ^{*8}					
3.6 (4.71)	—	1750 (68.9")	—	3575 (7880)	○		○					
4.0 (5.23)	—	1950 (76.8")	—	3700 (8160)	○		○					
4.4 (5.75)	—	2140 (84.3")	—	3800 (8380)	○		○					
5.1 (6.67)	—	2480 (97.6")	—	3925 (8650)	○		○					
5.6 (7.32)	—	2730 (107.5")	—	4025 (8870)	□		□					
6.0 (7.85)	—	2920 (115.4")	—	4100 (9040)	□		○					
					8.2 (26'11")		10.0 (32'10")		7.1 (23'4")			
PC800LC-8***					3.6 (11'10")		4.6 (15'1")		5.6 (18'4")		2.9 (9'8")	
1.70 (2.23)	—	914 (36")	—	2544 (5609)	●		●		●		●	
2.09 (2.73)	—	1067 (42")	—	2732 (6023)	●		○		○		●	
2.48 (3.25)	—	1219 (48")	—	2998 (6610)	●		□		□		●	
2.89 (3.78)	—	1372 (54")	—	3190 (7032)	●		⊙		⊙		●	
3.29 (4.31)	—	1524 (60")	—	3456 (7619)	●		○		X		●	
3.71 (4.85)	—	1676 (66")	—	3652 (8052)	○		□		X		●	
4.12 (5.39)	—	1829 (72")	—	3919 (8639)	□		⊙		X		●	
4.53 (5.93)	—	1981 (78")	—	4115 (9072)	⊙		X		X		○	

** UK source

*** For USA

*7 Use with 7.0 m (23'4") boom

*8 Use with 8.0 m (26'3") boom

*9 For heavy duty

Bucket and Arm Combinations

EXCAVATORS (BACKHOE)

These charts are based on over-side stability with fully loaded bucket at maximum reach.

- General purpose use, weight up to 2.1 t/m³ (3500 lb/cu.yd)
- General purpose use, weight up to 1.8 t/m³ (3000 lb/cu.yd)
- General purpose use, weight up to 1.5 t/m³ (2500 lb/cu.yd)
- ⊙ Light duty work, weight up to 1.2 t/m³ (2000 lb/cu.yd)
- × Not usable.

Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters)	Boom length + Arm length m (ft.in)		
SAE, PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without side cutters mm (in)	With side cutters mm (in)		3.4 (11'2")	4.5 (14'9")	5.7 (18'8")
PC1250-7, PC1250LC-8, PC1250-8, PC1250-8R							
3.4 (4.4)	3.0 (3.9)	1500 (59.1")	1670 (65.7")	3600 (7940)	—	●	○
4.0 (5.2)	3.5 (4.6)	1710 (67.3")	1880 (74")	3800 (8380)	●	○	□
5.0 (6.5)	4.3 (5.6)	2050 (80.7")	2220 (87.4")	4400 (9700)	○	□	—
5.2 (6.8)	4.5 (5.9)	2050 (80.7")	2110 (83.1")	5100 (11240)	○	—	—
PC1250-7, PC1250-8, PC1250-8R (SP spec.)						3.4 (11'2")	
6.7 (8.8)	5.9 (7.7)	2280 (89.8")	2340 (92.1")	6000 (13230)		○	
PC2000-8						8.7 + 3.9 (28'7" + 12'10")	
12.0 (15.7)*	11.0 (14.4)	2600 (102")	2670 (105")	12400 (27340)		○	
12.0 (15.7)	11.0 (14.4)	2600 (102")	2670 (105")	9700 (21380)		○	
13.7 (17.9)*	12.0 (15.7)	2720 (107")	2790 (110")	12500 (27560)		□	
13.7 (17.9)	12.0 (15.7)	2720 (107")	2790 (110")	10500 (23150)		□	

These charts are based on over-side stability with fully loaded bucket at maximum reach.

- Heavy duty work
- General digging and loading
- ⊙ Light material work

Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters and wp-2**)	Boom length + Arm length m (ft.in)
SAE, PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without side cutters mm (in)	With side cutters*** mm (in)		
PC3000-6					8.6 + 4.0 (28'3" + 13'1")
15 (19.5)	13.2 (17.3)	3263 (128")	3320 (131")	15540 (34260)	○
PC4000-6					9.75 + 4.5 (32'0" + 14'9")
22 (28.8)	19 (24.9)	3790 (149")	3800 (150")	23370 (51520)	○
PC5500-6					11 + 5.1 (36'1" + 16'9")
29 (37.9)	24.3 (31.8)	4380 (172")	4390 (173")	33080 (72930)	○
PC8000-6					11.5 + 5.5 (37'9" + 18'1")
38 (50)	33.4 (43.7)	4555 (179")	4565 (180")	45470 (100240)	○
42 (55)	36.9 (48.3)	4555 (179")	4565 (180")	42600 (93920)	⊙

* Wear-resistant bucket

** Wear package number

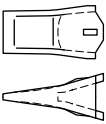
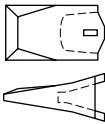
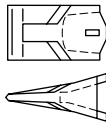
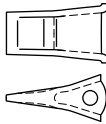
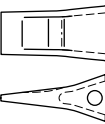
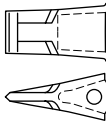
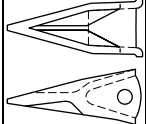
*** Side cutters, which increase the width of bucket, are not standard

Teeth Features

- 1) Long-life bucket tooth:
Fits the work site where wear resistance of the tooth is required because it must be used to collect sand and gravel.
- 2) Self-sharpened bucket tooth:
Fits the work site where penetration ease of the tooth is required because it must be used to dig rock and clay after blasting.
- 3) Super self-sharpened bucket tooth:
Fits the work site where penetration ease better than above is required because it must be used to dig rock after blasting.
- 4) Standard bucket tooth:
Fits other general work sites.

Teeth Selection









1. Teeth designed by Komatsu

	Vertical pin type			Horizontal pin type			
	Standard tooth	Long-life tooth	Self-sharpened tooth	Standard tooth	Long-life tooth	Self-sharpened tooth	Super self-sharpened tooth
PC120-6 up to PC200-8	○	○	○	○	○	○	—
PC220-7 up to PC350-8	○	○	○	○	○	○	—
PC400-7, PC400-8 PC450-7, PC450-8	○	○	○	○	○	○	—
PC750-7, PC800-8 PC800-7, PC850-8	—	—	—	○	○	○	○
PC1250-7, PC1250-8	—	—	—	○	○	○	—
							

○ : Available

2. HENSLEY teeth

1) KMAX and XS TEETH SELECTION for EXCAVATORS

TOOTH STYLE		FEATURE - APPLICATION	BENEFIT - ADVANTAGE
Sharp Ribbed (SYL)		<ul style="list-style-type: none"> • General purpose shape used on excavators • Ribbs for support • Centerline tooth 	Wears sharp for good penetration
Rock Chisel (RC)		<ul style="list-style-type: none"> • Heavy duty tooth shape • Used on excavators • Centerline tooth 	<ul style="list-style-type: none"> • Additional wear material for abrasive, tough digging conditions • Profile wears sharp for good penetration
Tiger (T)		<ul style="list-style-type: none"> • Ribs provide strength for tough digging conditions • Used on excavators • Centerline tooth 	Tooth shape provide maximum penetration
Twin Tiger (T)		<ul style="list-style-type: none"> • Used on corner adapters to cut bucket clearance • Used on excavators • Centerline tooth 	Tooth shape provide maximum penetration
U Twin Tiger (UT)		<ul style="list-style-type: none"> • Used on corner adapters to cut bucket clearance • Used on excavators • Centerline tooth 	<ul style="list-style-type: none"> • Better penetration • Parallel sides keep cut width constant during work
Flare (F)		<ul style="list-style-type: none"> • Wide profile for general purpose clean up and trench bottoms • Used on excavators • Centerline tooth 	Panels provide strength for excavating
Rock Penetrator (RP1, RP2 & RP3)		<ul style="list-style-type: none"> • Heavy duty penetrate tooth for loader applications • Non-centerline profile with heavy, flat bottom for abrasive applications 	Center rib provides strength and promotes sharpness.
Rock Penetrator Heavy, Long (RPHL)		<ul style="list-style-type: none"> • Extreme duty penetrate tooth for loader applications • Non-centerline profile for extreme abrasive loader applications 	<ul style="list-style-type: none"> • Flat, grooved bottom for optional tungsten carbiding • Wide profile for maximum wear life

2) Series Recommendation Chart - Hydraulic Sxcavators/Shovels

Series		Hydraulic Sxcavators/Shovels	
KMAX	XS	STANDARD/HEAVY DUTY	EXTREME SERVICE
-	XS04	PC02 – PC45	-
-	XS05	PC50 – PC60	PC02 – PC45
-	XS10	PC75 – PC95	PC50 – PC60
K15	XS15	PC100 – PC150	PC75 – PC100
K20	XS20	PC160 – PC200	PC120 – PC150
K25	XS25	PC220 – PC270	PC160 – PC200
K30	XS30	PC300	PC220 – PC270
K40	XS40	PC350 – PC400	PC300 – PC350
K50	XS50	PC450 – PC600	PC400 – PC450
K70	XS70	-	PC600 – PC650
K85	XS85	PC800 – PC1250	PC700 – PC800
-	XS115	PC1400 – PC1600	PC1000 – PC1400
-	XS145	PC2000	PC1600 – PC2000
-	XS252	PC3000BH – PC3000FS	-
-	XS342	PC4000BH	PC3000BH – PC3000FS
-	XS392	PC4000FS	PC4000FS

DEFINITIONS

Standard / Heavy Duty - The load on the machine ranges from very little to moderate with some limited, "high load" use. Materials range from light and loose, well-shot, fracturable, to some medium, even heavy shot materials that break up into manageable sizes when excavated. Large slabs of rock do not fit in this category.

Extreme Service ? The load on the machine is high, nearing the maximum capabilities of the machine. Materials are heavy un-shot rock or slabs that require the full force of the machine to break out.

3) Tooth Application Chart - Hydraulic Excavators/Shovels



Type 1 - SYL
Sharp, Ribbed



Type 2 - RC
Rock Chisel



Type 3 - T
Tiger



Type 4 - WT
Twin Tiger



Type 5 - UT
U Twin Tiger



Type 6 - F
Flare



TOOTH STYLES BY SERIES

Series	Tooth Styles					
	1	2	3	4	5	6
XS04	○	○	—	—	—	—
XS05	○	○	○	○	—	○
XS10	○	○	○	○	—	○
KMAX 15	○	○	○	○	—	○
KMAX 20	○	○	○	○	○	○
KMAX 25	○	○	○	○	○	○
KMAX 30	○	○	○	○	○	○
KMAX 40	○	○	○	○	○	○
KMAX 50	○	○	○	○	—	○
KMAX 70	○	○	○	○	—	○
KMAX 85	○	○	○	○	—	—
XS115	○	○	—	—	—	—
XS145	○	○	—	—	—	—
XS250	○	○	○	—	—	—
XS340	—	○	—	—	—	—
XS390	○	—	—	—	—	—

○ : Available
— : Not Available

3. KVX teeth

1) Features

1) Long service life of teeth

Free-turning teeth mean long-lasting resistance to wear (some specifications excluded).

2) Excellent wear resistance using Sagitta steel

Based on 130 years of experience in advanced heat-processing technology, teeth and lip plate (base edge) are afforded optimum wear resistance and hardness.

3) Tooth system without adapter

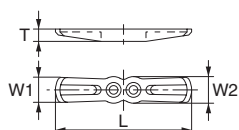
Teeth are affixed using secure bolts, meaning that no adapter is employed. Problems such as cracks do not occur. Since teeth are of a uniform thickness, excavation wear resistances do not change.

4) The same Sagitta steel is employed for the lip plate and teeth.

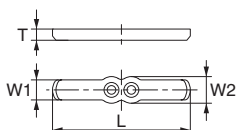
Special steel (Brinell hardness 520 Sagitta steel) is employed for the lip plate, rendering reinforcement of the rip plate unnecessary. This means a marked reduction in reinforcement costs is possible.

2) Teeth specification

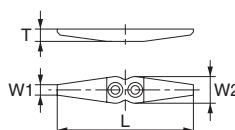
A: STANDARD



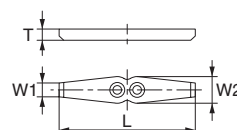
B: STONE



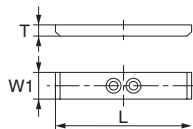
C: TORPEDO



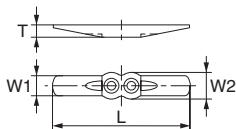
D: STORE TORPEDO



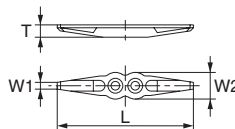
E: STONE HD



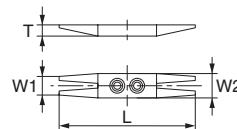
F: PENETRATION



G: TIGER



H: TWIN TIGER



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KVX Tooth Table

Model	Bolt Size	TOOTH SHAPES							
		A	B	C	D	E	F	G	H
PC120, PC200	M36	○	○	—	—	—	○	○	○
PC200, PC300	M48	○	○	—	○	○	○	○	○
PC350, PC450	M48 / 52	○	—	○	—	○	—	○	○
PC450, PC600	M60	○	○	—	○	○	—	○	○
PC600, PC800	M68	—	—	—	○	○	—	○	○
PC1250	M80	—	—	—	○	○	—	○	○

○ : Available

1. Basic idea for excavator selection

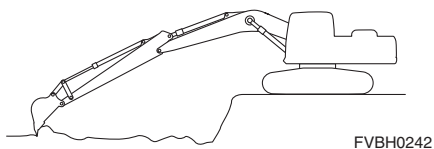
The concept of the combination of bucket size, arm length, and boom length for hydraulic excavators to match the nature of the operation is as follows.

Main-types of work

Combination

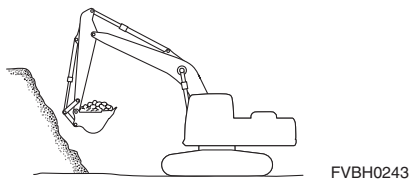
Boom/Arm + Bucket

1) Wider working range



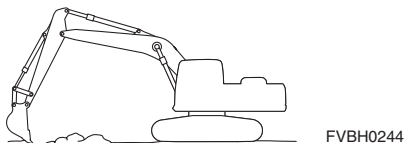
Long boom
Long arm + Small capacity bucket

2) Larger production



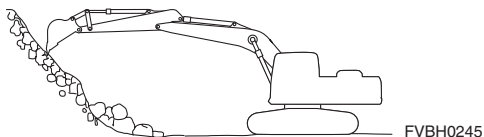
Short boom
Short arm + Large capacity bucket

3) Larger digging force, Larger lifting capacity



Short arm + Narrow bucket
+ Ripper bucket

4) Heavy-duty work



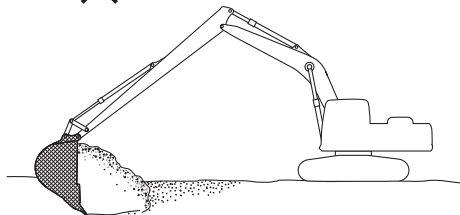
Strengthened boom
Strengthened arm + Heavy-duty bucket

2. Wrong combination

1) Long Arm with Large Capacity Bucket

If the machine is operated with a long arm and a large capacity bucket with a capacity larger than recommended, the machine will become unstable, and it will also lose digging power, so the operating efficiency will drop. In particular, if a strong shock load is applied to the bucket, there is danger that the arm may break.

✗ Wrong

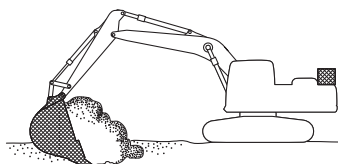


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2) Additional Counterweight

If an excessive capacity bucket or heavy attachment is installed, the machine will become unstable, so it is common to see additional counterweights used. However, this means that an excessive load is applied not only to the work equipment and undercarriage, but also to the whole machine, so this will lead to a reduction in the service life of the machine.

✗ Wrong



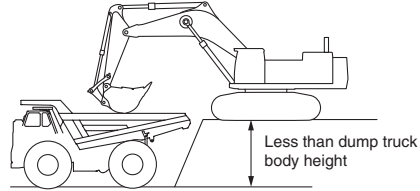
FVBH0247

3. Concepts for selection of backhoe type and loading shovel for large hydraulic excavators

1) Bench height (ease of loading)

From the point of view of the ease of loading a dump truck, a guideline is to select a loading shovel if the height of the bench is more than 5 m (16'5"), and a backhoe type if the height of the bench is less than 5 m (16'5").

For the backhoe type to load a dump truck efficiently, the bench height should be less than the dump truck body height.



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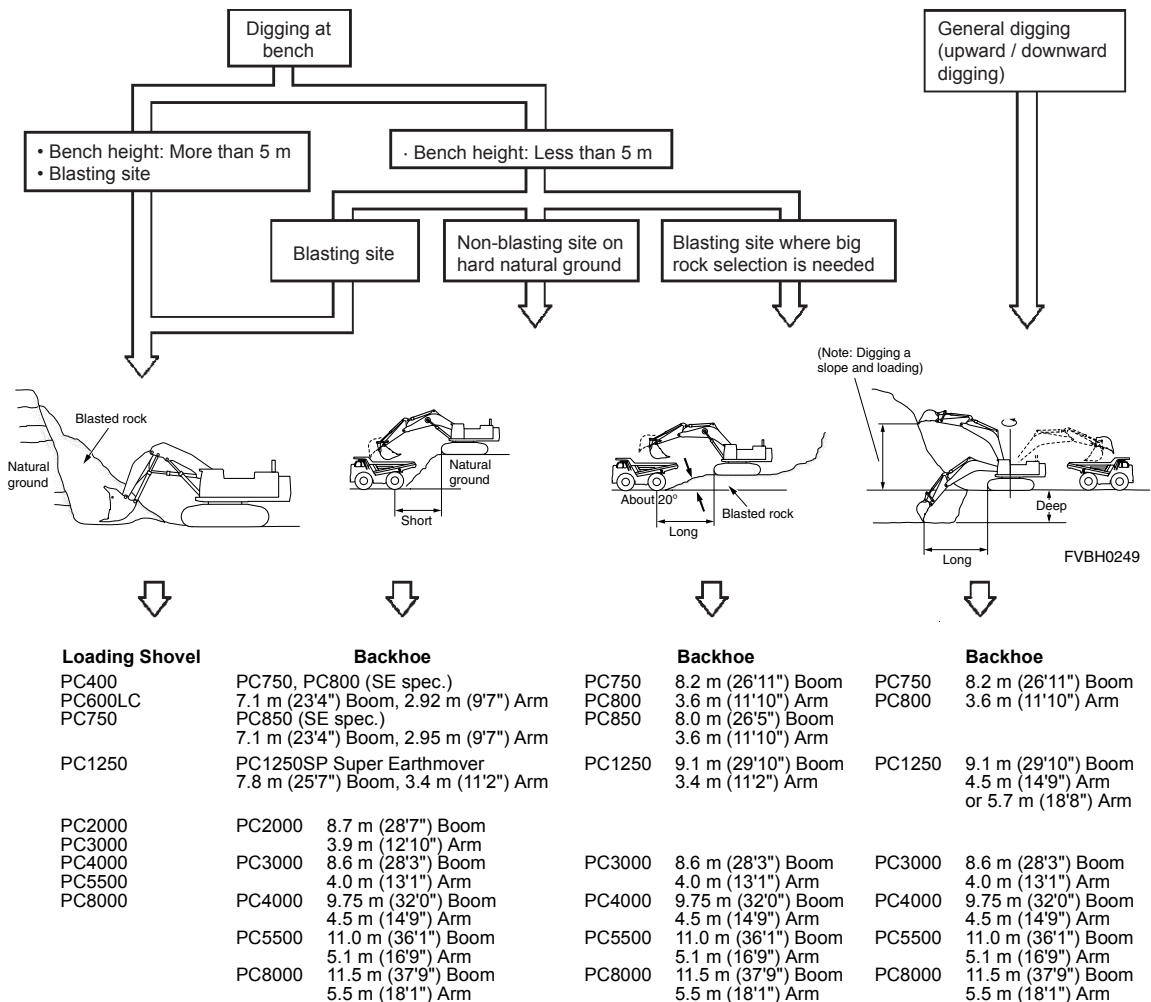
2) Digging function

Loading shovel : This is better for loading blasted rocks where there are many large lumps and digging force is required. When digging flat surfaces, its horizontal pushing force is strong and it can show its power, but it is difficult for it to use its pushing force when digging above ground level.

Backhoe : This is an all-round attachment for digging and loading. When increasing the bucket size to ensure production volume, make the work equipment (arm, boom) shorter.

Large Size Hydraulic Excavator Work Equipment Selection Guide

Select the work equipment for large hydraulic excavators as follows.



NOTE: The bucket size depends on the specific gravity (loose) of the material loaded. For details, see Bucket and Arm Combination.

HYDRAULIC EXCAVATOR AND DUMP TRUCK COMBINATION

HYDRAULIC EXCAVATOR			RIGID DUMP TRUCK						
MODEL (B/H)	BUCKET CAPACITY (HEAPED) m ³ (cu.yd)		HD255	HD325	HD405	HD465	HD605	HD785	HD1500
			Payload m. ton (U.S. ton)						
			25 (17.7)	36.5 (40)	41 (45)	55 (61)	63 (69)	91 (100)	144 (159)
			Body Capacity m ³ (cu. yd)						
(SAE)	(CECE)	17.7 (23.2)	24.0 (31.4)	27.3 (35.7)	34.2 (44.7)	40 (52.3)	60 (78.5)	78 (102)	
PC400	1.90 (2.49)	1.7 (2.22)	7	(11)					
PC450	2.10 (2.75)	1.9 (2.49)	7	(10)	(11)				
PC600	2.0 (2.62)	1.8 (2.35)	7	(10)	(11)				
	2.3 (3.01)	2.1 (2.75)	6	(9)	(10)				
	2.7 (3.53)	2.4 (3.14)	5	8	8	(11)			
	2.8 (3.66)	2.5 (3.27)	5	7	8	(11)			
	3.1 (4.05)	2.8 (3.66)	4	7	7	(10)	(11)		
PC800-8 PC750-7	3.5 (4.58)	3.1 (4.05)	4	6	7	(9)	(10)		
	2.8 (3.66)	2.5 (3.27)	5	7	8	(11)			
	3.1 (4.05)	2.8 (3.66)	4	7	7	(10)	(11)		
PC750-7 (SE spec.) PC800-8 (SE spec.)	3.4 (4.45)	3.0 (3.92)	4	6	7	(9)	(10)		
	4.0 (5.2)	3.5 (4.6)	(3)	5	6	8	(9)		
	4.3 (5.6)	3.8 (5.0)	(3)	5	5	7	8		
PC800-7 PC850-8	4.5 (5.9)	4.0 (5.2)	(3)	5	5	7	8	(11)	
	3.4 (4.45)	3.0 (3.92)	4	6	7	(9)	(10)		
	3.4 (4.4)	3.0 (3.9)	4	6	7	(9)	(10)		
PC1250	4.0 (5.2)	3.5 (4.6)	(3)	5	6	8	(9)		
	5.0 (6.5)	4.3 (5.6)	(3)	4	5	6	7	(10)	
	5.2 (6.8)	4.5 (5.9)	(3)	4	4	6	7	(10)	
	6.7 (8.8)	5.7 (7.5)		(3)	(3)	5	5	8	
PC2000	12.0 (15.7)	11.0 (14.4)				(3)	(3)	4	7
	13.7 (17.9)	12.0 (15.7)					(3)	4	6

Note: B/H: BACKHOE

Number of loads: 4 ~ 8 Suitable, (3)(9) ~ (11) Possible

Above combination is determined by following method;

(1) Suitable loading times (n):

$$n = \frac{\text{Max. payload of dump truck}}{\text{Bucket capacity} \times \text{Bucket fill factor} \times \text{Specific weight}} \quad \text{or} \quad n = \frac{\text{Heaped capacity of dump truck}}{\text{Bucket capacity} \times \text{Bucket fill factor}}$$

Number of loading times is calculated based on following condition.

1. Calculate number of loading times from maximum payload of dump truck.

Please see formula 1.

2. Calculate number of loading times from body capacity of dump truck.

Please see formula 2.

3. Adopt lower number between formula 1 and formula 2.

Formula 1

Number of loading = Payload of truck (metric tonnes) / (Bucket capacity of loader (m³) × loose density × bucket factor)

Formula 2

Number of loading = Body capacity (cubic meter) / (Bucket capacity of loader (m³) × bucket factor)

We adopt following condition.

Density = 1.8 metric tonnes per cubic meter

Bucket factor = 1.0

Calculated number of loading times are rounded off to the first decimal place.

HYDRAULIC EXCAVATOR AND DUMP TRUCK COMBINATION

⊙ : SUITABLE

○ : POSSIBLE

HYDRAULIC EXCAVATOR			RIGID DUMP TRUCK						
MODEL (B/H)	BUCKET CAPACITY (HEAPED) m ³ (cu.yd)		HD785	HD1500	730E	830E 830E-AC	930E-4 930E-4SE	960E	
			Payload m. ton (U.S. ton)						
			91 (100)	144 (159)	184 (203)	222 (244)	292 (320)	327 (360)	
	(SAE)		(CECE)		Body Capacity m ³ (cu. yd)				
	(SAE)	(CECE)	60 (78.5)	78 (102)	111 (145)	147 (193)	211 (276)	214 (280)	
PC3000	15.0 (19.6)	13.1 (17.1)	3 – 4	6					
PC4000	22.0 (28.8)	19 (25)		4	5				
PC5500	29.0 (37.9)	24.3 (31.8)		3	4	5	6	7	
PC8000	38.0 (49.7)	33.1 (43.3)				4	5	5	

Note: B/H: BACKHOE
Number of loads: 3 – 7 Suitable

Above combination is determined by following method;
(1) Suitable loading times (n):

$$n = \frac{\text{Max. payload of dump truck}}{\text{Bucket capacity} \times \text{Bucket fill factor} \times \text{Specific weight}} \text{ or } n = \frac{\text{Heaped capacity of dump truck}}{\text{Bucket capacity} \times \text{Bucket fill factor}}$$

Number of loading times is calculated based on following condition.

1. Calculate number of loading times from maximum payload of dump truck.
Please see formula 1.
2. Calculate number of loading times from body capacity of dump truck.
Please see formula 2.
3. Adopt lower number between formula 1 and formula 2.

Formula 1

Number of loading = Payload of truck (metric tonnes) / (Bucket capacity of loader (m³) × loose density × bucket factor)

Formula 2

Number of loading = Body capacity (cubic meter) / (Bucket capacity of loader (m³) × bucket factor)

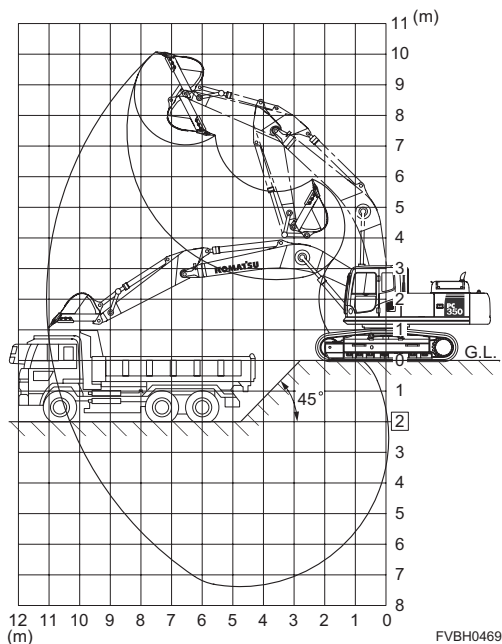
We adopt following condition.

Density = 1.8 metric tonnes per cubic meter

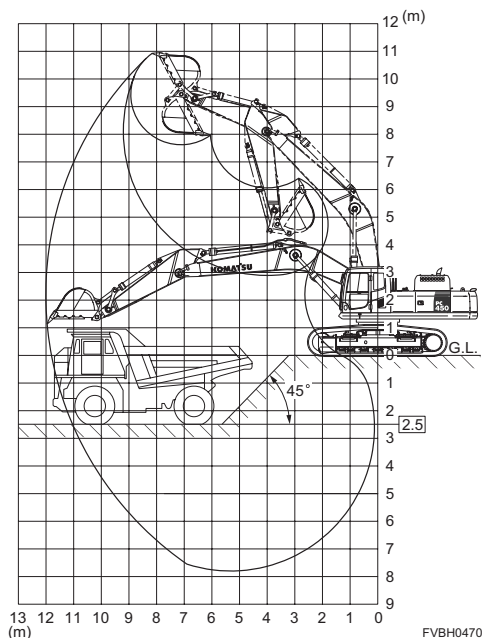
Bucket factor = 1.0

WORKING RANGE AND LOAD HEIGHT

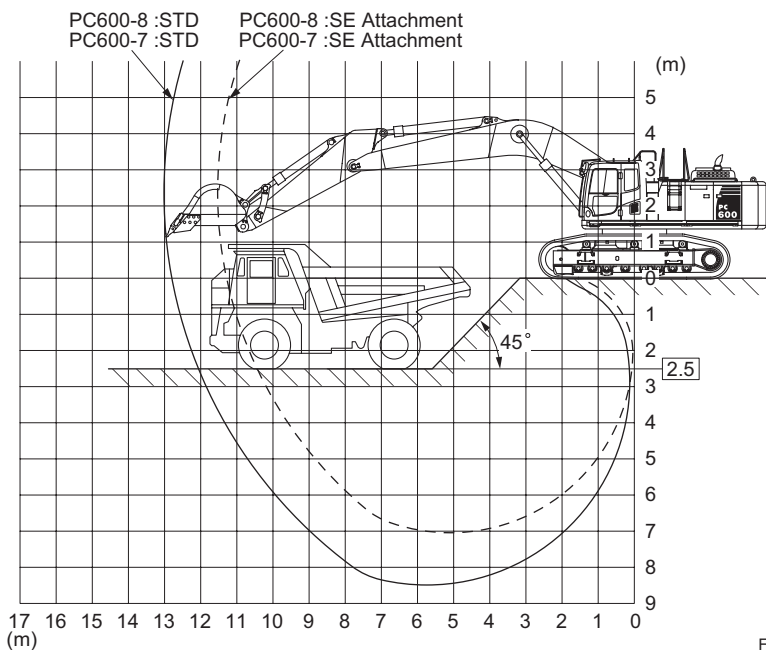
Normal rock-loading operations:
Loading machine: PC350-7, PC350-8
Dump truck: 11-ton



Normal rock-loading operations:
Loading machine: PC450-7, PC450-8(8R)
Dump truck: HD255-5



Normal rock-loading operations:
Loading machine: PC600-7, PC600-8(8R)
Dump truck: HD255-5

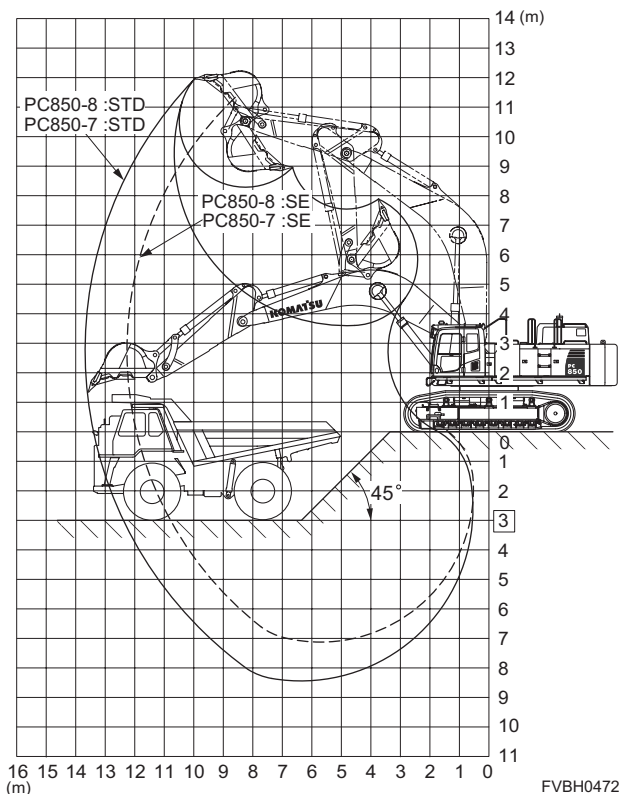


WORKING RANGE AND LOAD HEIGHT

Normal rock-loading operations:

Loading machine: PC800-7, PC850-8(8R)

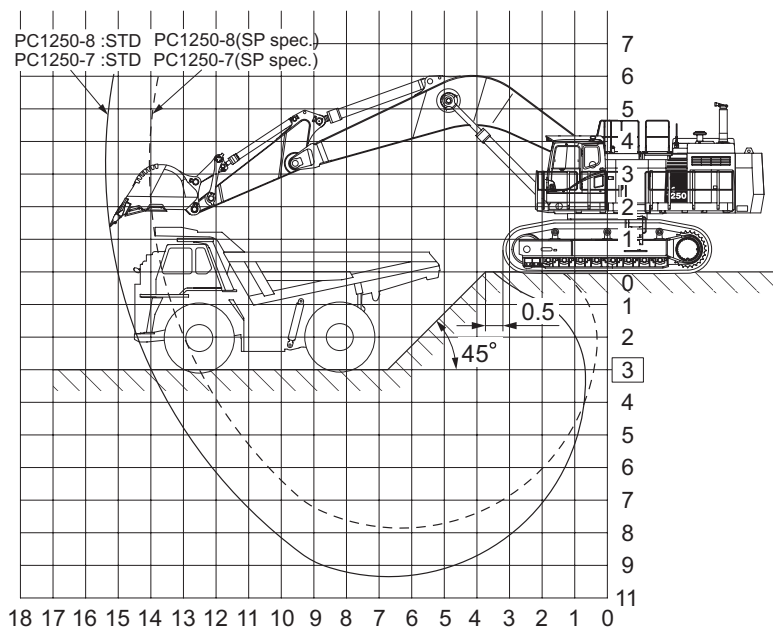
Dump truck: HD325-6



Normal rock-loading operations:

Loading machine: PC1250-7, PC1250-7(SP spec.), PC1250-8(8R), PC1250-8(8R)(SP spec.)

Dump truck: HD465-6

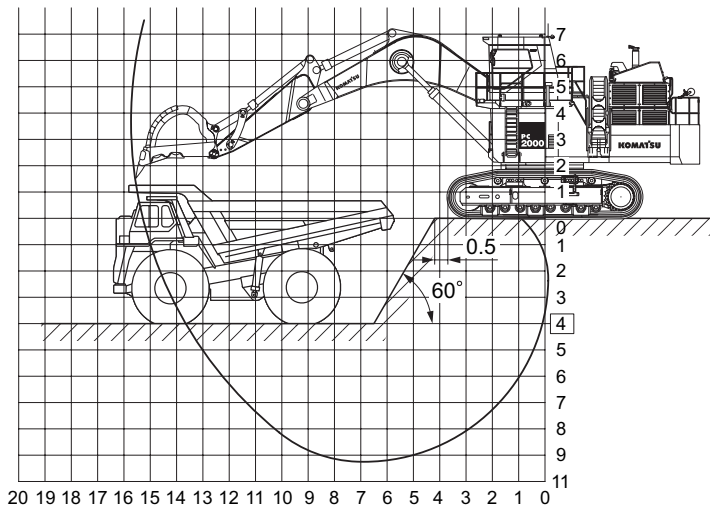


WORKING RANGE AND LOAD HEIGHT

Normal rock-loading operations:

Loading machine: PC2000-8

Dump truck: HD785-5

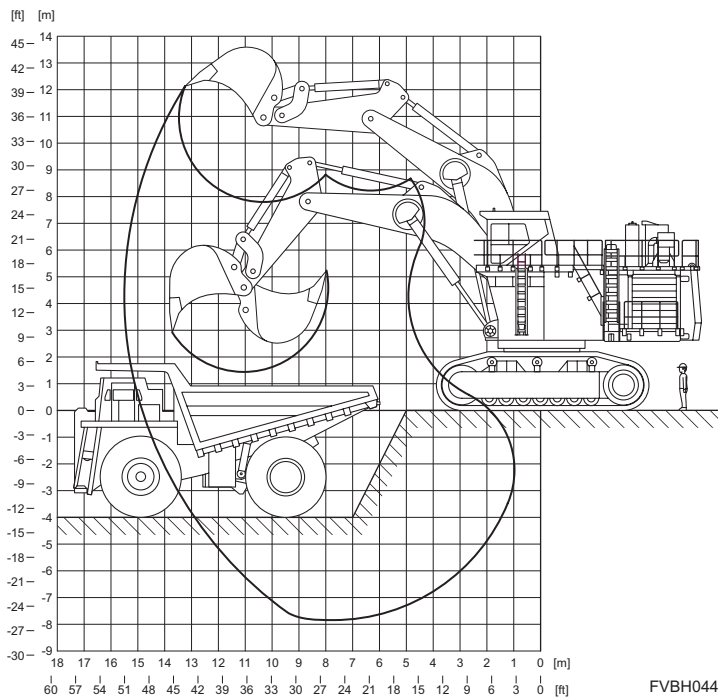


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Normal rock-loading operations:

Loading machine: PC3000-6

Dump truck: HD1500-7



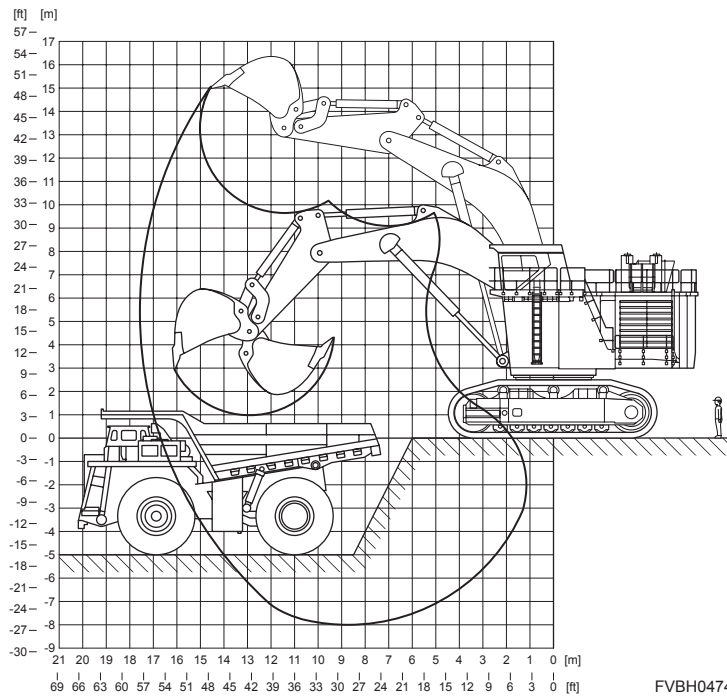
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WORKING RANGE AND LOAD HEIGHT

Normal rock-loading operations:

Loading machine: PC4000-6

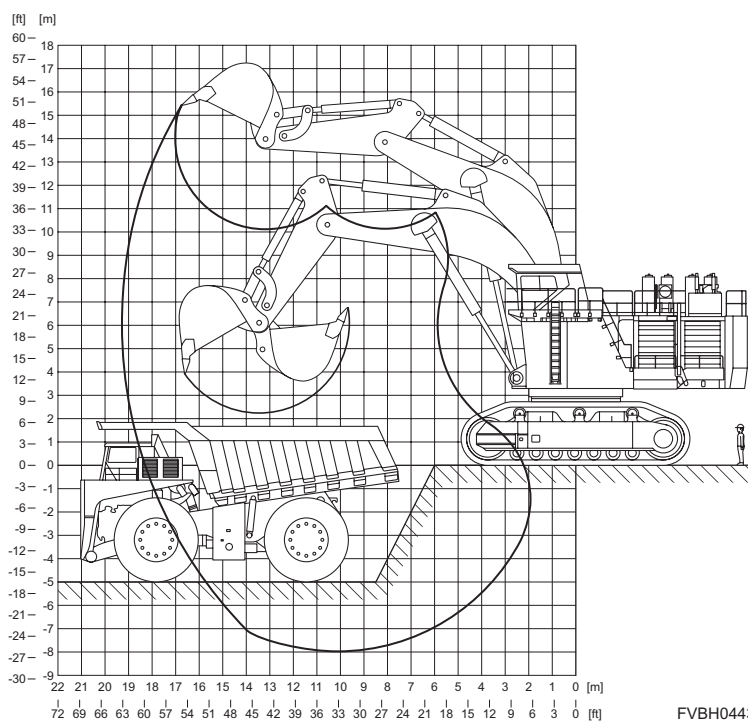
Dump truck: 730E



Normal rock-loading operations:

Loading machine: PC5500-6

Dump truck: 830E

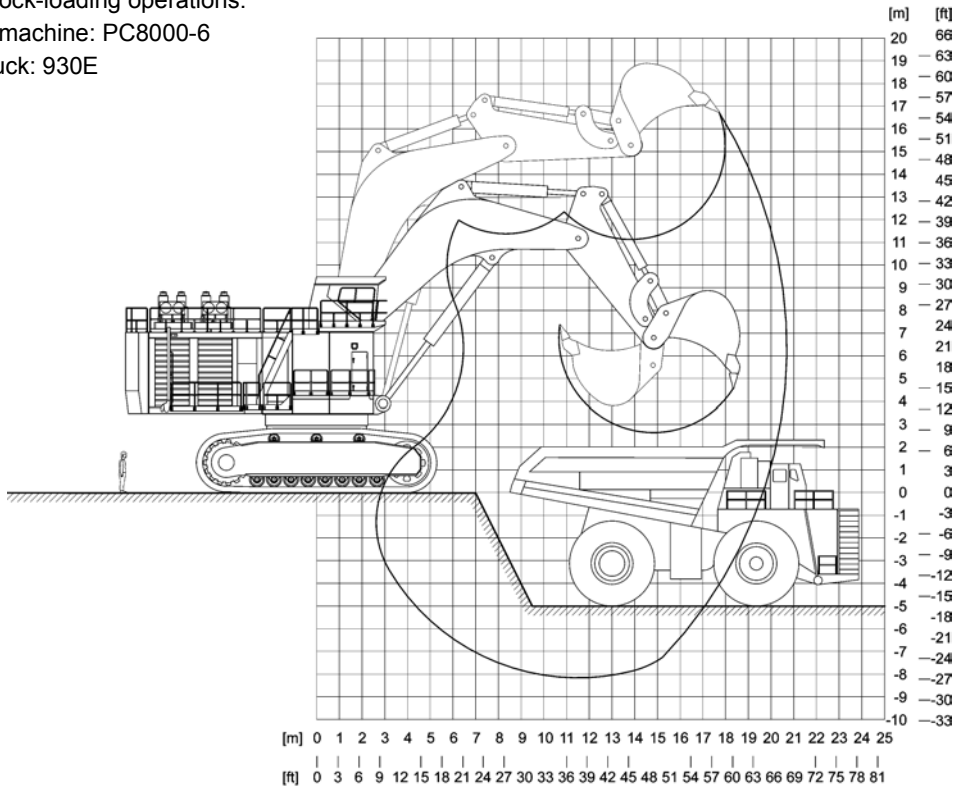


WORKING RANGE AND LOAD HEIGHT

Normal rock-loading operations:

Loading machine: PC8000-6

Dump truck: 930E



Estimated Hourly Production

ESTIMATED CYCLE TIME		BUCKET SIZE** (CU.M) OR (CU.YD)																						
SEC.	MIN.	0.2	0.3	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	
10.0	0.17	72	108	180	252	324																		
11.0	0.18	65	98	164	229	295	360	425	491															
12.0	0.20	60	90	150	210	270	330	390	450	510	570	630	690	750										
13.0	0.22	55	83	138	194	249	305	360	415	471	526	582	637	692	748	803	858	914	969	1025	1080	1135		
15.0	0.25	48	72	120	168	216	264	312	360	408	456	504	552	600	648	696	744	792	840	888	936	984	1032	
17.0	0.28	42	64	106	148	191	233	275	318	360	402	445	487	529	572	614	656	699	741	784	826	868	911	
19.0	0.32	38	57	95	133	171	208	246	284	322	360	398	436	474	512	549	587	625	663	701	739	777	815	
21.0	0.35	34	51	86	120	154	189	223	257	291	326	360	394	429	463	497	531	566	600	634	669	703	737	
24.0	0.40	30	45	75	105	135	165	195	225	255	285	315	345	375	405	435	565	595	625	655	685	715	745	
27.0	0.45	27	40	67	93	120	147	173	200	227	253	280	307	333	360	387	413	440	467	493	520	547	573	
30.0	0.50	24	36	60	84	108	132	156	180	204	228	252	276	300	324	348	372	396	420	444	468	492	516	
35.0	0.58									175	195	216	237	257	278	298	319	339	360	381	401	422	442	
40.0	0.67																	279	297	315	333	351	369	387

ESTIMATED CYCLE TIME		BUCKET SIZE** (CU.M) OR (CU.YD)																					
SEC.	MIN.	4.5	4.7	4.9	5.1	5.3	5.5	5.7	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0		
15.0	0.25	1080	1128	1176	1224	1272	1320	1368															
17.0	0.28	953	995	1038	1080	1122	1165	1207															
19.0	0.32	853	891	928	966	1004	1042	1080	1137	1231	1326	1421	1516	1611	1705	1800	1895	1989	2084	2179	2274		
21.0	0.35	771	806	840	874	909	943	977	1028	1114	1200	1286	1371	1457	1543	1629	1714	1800	1886	1971	2057		
24.0	0.40	675	705	735	765	795	825	855	900	975	1050	1125	1200	1275	1350	1425	1500	1575	1650	1725	1800		
27.0	0.45	600	627	653	680	707	733	760	800	867	933	1000	1067	1133	1200	1267	1333	1400	1467	1533	1600		
30.0	0.50	540	564	588	612	636	660	684	720	780	840	900	960	1020	1080	1140	1200	1260	1320	1380	1440		
35.0	0.58	463	483	504	525	545	566	586	617	668	720	771	823	874	926	977	1029	1080	1131	1183	1234		
40.0	0.67	405	423	441	459	477	495	513	540	585	630	675	720	765	810	855	900	945	990	1035	1080		
45.0	0.75								480	520	560	600	640	680	720	760	800	840	880	920	960		

ESTIMATED CYCLE TIME		BUCKET SIZE** (CU.M) OR (CU.YD)														
SEC.	MIN.	12.5	13.0	13.5	14.0	15.0	16.0	18	20	22	25	28	30	35	38	40
15.0	0.25															
17.0	0.28															
19.0	0.32	2368	2463													
21.0	0.35	2143	2229	2314	2400	2571	3031	3085								
24.0	0.40	1875	1950	2025	2100	2250	2400	2700	3000	3300	3750	4200	4500	5250	5700	6000
27.0	0.45	1667	1733	1800	1866	2000	2133	2400	2666	2933	3333	3733	4000	4666	5066	5333
30.0	0.50	1500	1560	1620	1680	1800	1920	2160	2400	2640	3000	3360	3600	4200	4560	4800
35.0	0.58	1286	1337	1388	1440	1543	1645	1851	2057	2263	2571	2880	3085	3600	3908	4114
40.0	0.67	1125	1170	1215	1260	1350	1440	1620	1800	1980	2250	2520	2700	3150	3420	3600
45.0	0.75	1000	1040	1080	1120	1200	1280	1440	1600	1760	2000	2240	2400	2800	3040	3200

** Bucket size : Heaped bucket capacity
 *** Cycle time : Refer to the section 16A "Productivity"

Actual production = Estimated Hourly Production × Bucket Fill Factor × Job Efficiency

Bucket fill factor (K) (PC78~PC2000)

Excavating conditions	K
Easy excavating	1.1 ~ 1.2
Average excavating	1.0 ~ 1.1
Rather difficult excavating	0.8 ~ 0.9
Difficult excavating	0.7 ~ 0.8

Job efficiency (E)

Excavating conditions	E
Good	0.83
Average	0.75
Rather poor	0.67
Poor	0.58

Bucket fill factor (K) (PC3000~PC8000) **4

Excavating conditions	K
Easy excavating	1.0
Average excavating	0.95
Severe	0.9

**4:KMG Mining Shovels (Backhoe)

MEMO

A series of horizontal dashed lines for writing.

SECTION **2B**

MINIMAL SWING RADIUS EXCAVATORS (UU)

UU stands for “Ultra Urban” machine.

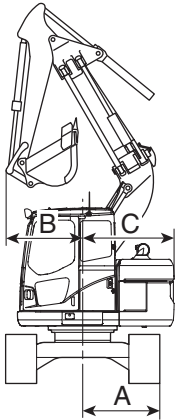
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MINIMAL SWING RADIUS EXCAVATORS (UU)

Minimal Swing Radius Excavator means the excavator having an upper structure with its equipment and attachments swinging within 120% of the width of the undercarriage. (Defined by ISO 6165)

UU stands for "Ultra Urban" machine named by Komatsu and equivalent to Minimal Swing Radius Excavator.



$$B < A$$

$$C \leq 1.2A$$

Wide working ranges and small swing radius

- The small swing radius of the work equipment facilitates operations even in confined spaces
- Easy side ditching with large offset width
- The largest working range in this class
- Largest digging force in its class

Low-noise machine, optimum for work in urban areas**Safe and comfortable operations**

- Smooth swing control
- Three-pump hydraulic with independent swing control facilitates simultaneous operation
- Superior fine control performance
- Cushion cylinders reduce shock
- Light control effort for levers and pedals
- Simple boom offset operation
- One-touch lock for all work equipment levers.

Excellent durability and easy maintenance

- Highly evaluated welded assembly type shoes
- Automatic air bleeding for fuel system
- Dust seals fitted around work equipment pins
- In-shoe motor gives neat undercarriage
- Full-open hood facilitates inspection and maintenance

Specifications

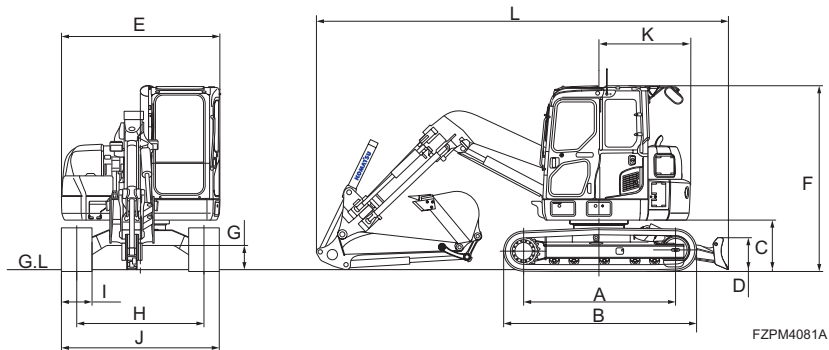
MINIMAL SWING RADIUS EXCAVATORS (UU)

Item	Model	PC58UU-3	PC78UU-8
OPERATING WEIGHT*	kg (lb)	5290 (11,670)	7960 (17,550)
HORSEPOWER: (SAE)	kW (HP)/RPM	29.4 (39)/2400	41 (55)/1950
BUCKET CAPACITY RANGE (SAE)	m ³ (cu.yd)	0.055~0.22 (0.07) (0.29)	0.09~0.34 (0.12) (0.44)
PERFORMANCE: Swing speed Max. travel speed	RPM km/h (MPH)	10.0 Hi 4.5 (2.8) Lo 2.7 (1.7)	10.0 Hi 5.0 (3.1) Lo 2.9 (1.8)
DIMENSIONS: (see the page of dimensions) Front swing radius Offset width Tail swing radius	mm (ft.in)	1060(3'5") L:910 (3') R:730 (2'5") 1035 (3'5")	1200 (3'11") L:1050 (3'5") R:1050 (3'5") 1340 (4'5")
ENGINE: Model No. of cylinders- bore × stroke Piston displacement	mm (in) ltr. (cu.in)	KOMATSU 4D88E 4-88 × 90 (3.46 × 3.54) 2.19 (134)	KOMATSU SAA4D95LE-5 4-95 × 115 (3.74 × 4.53) 3.26 (199)
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Max. oil pressure	ltr. (U.S. Gal)/min. kg/cm ² (PSI)	2 × Variable piston 1 × Gear pump 135 (35.9) 265 (3770)	2 × Variable piston 1 × Gear pump 160 (42.3) 270 (3840)
Track shoe width/ ground pressure	mm (in)/ kg/cm ² (PSI)	400 (16")/ 0.31 (4.4)	450 (18")/ 0.35 (5.0)
CAPACITY (Refilled): Fuel tank Hydraulic oil tank	ltr.(U.S. Gal)	80 (21.1) 36 (9.5)	125 (33) 56 (14.8)
*: MACHINE SPEC. • Bucket (SAE) • Upper attachment • Track shoe	m ³ (cu.yd)	0.22 (0.29) Cab Rubber shoe	0.28 (0.37) Cab Triple grouser

* Operating weight includes coolant, lubricants, full fuel tank, operator 80 kg (180 lb) and, indicated implement, shoes and upper attachment.

Dimensions

MINIMAL SWING RADIUS EXCAVATORS (UU)

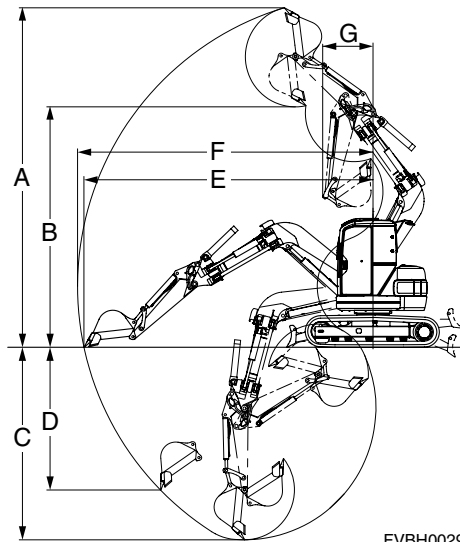


FZPM4081A

	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (in)	J mm (ft.in)	K mm (ft.in)	L mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)
PC58UU-3	1910 (6'3")	2470 (8'1")	630 (2'1")	400 (1'4")	1935 (6'4")	2610 (8'7")	320 (1'1")	1600 (5'3")	400 (16")	2000 (6'7")	1035 (3'5")	5335 (17'6")	3.41 (11'2")	1.62 (5'4")
												5385 (17'8")		2.07 (6'10")
PC78UU-8	2235 (7'4")	2840 (9'4")	735 (2'5")	470 (1'7")	2330 (7'8")	2730 (8'11")	360 (1'2")	1870 (6'2")	450 (18")	2320 (7'7")	1340 (4'5")	6060 (19'11")	3.75 (12'4")	1.72 (5'8")

Working Ranges and Digging Forces

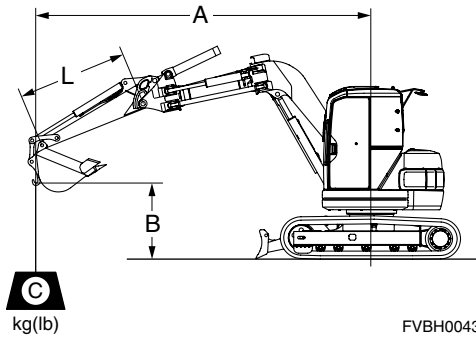
MINIMAL SWING RADIUS EXCAVATORS (UU)



FVBH0029

	Boom length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Bucket digging force* kg (lb/kN)	Arm Crowd force* kg (lb/kN)
PC58UU-3	3.41 (11'2")	1.62 (5'4")	6330 (20'9")	4600 (15'1")	4000 (13'1")	2900 (9'6")	5565 (18'3")	5660 (18'7")	1060 (3'5")	4000 (8,820/39.2)	2650 (5,840/26.0)
		2.07 (6'10")	6600 (21'10")	4860 (15'11")	4400 (14'5")	3150 (10'4")	6000 (19'8")	6100 (20'0")	1275 (4'2")	4000 (8,820/39.2)	2250 (4,960/22.1)
PC78UU-8	3.75 (12'4")	1.72 (5'8")	7330 (24'1")	5260 (17'3")	4230 (13'10")	3190 (10'6")	6240 (20'6")	6400 (21'0")	1200 (3'11")	6250 (13,780/61.3)	3960 (8,730/38.8)

* ISO rating



- A : Reach from swing center
- B : Bucket hook height
- C : Lifting capacity
- L : Arm length
- Cf : Rating over front
- Cs : Rating over side
- MAX: Rating at maximum reach

FVBH0043

PC58UU-3

Conditions:

Boom : 3410 mm (11'12"), Bucket (SAE) : 0.22 m³ (0.29cu.yd), Shoes : 400 mm (16")

unit: kg (lb)

B	A	MAX		4.6 m (15')		3.0 m (10')		1.5 m (5')			
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs		
Arm length 1620 mm (5'4") With blade on ground											
4.6 m (15')		*1030 (2290)	*1030 (2290)			*1380 (3050)	*1380 (3050)				
3.0 m (10')		*990 (2200)	660 (1450)	*1000 (2200)	760 (1690)	*1530 (3380)	*1530 (3380)				
0.0 m (0')		*1360 (3010)	500 (1110)	*1470 (3250)	650 (1430)	*2290 (5060)	*1230 (2710)	*1400 (3080)	*1400 (3080)		
-1.5 m (5')		*1410 (3110)	610 (1350)			*2110 (4660)	1170 (2590)	*1050 (2320)	*610 (1350)		
Arm length 1620 mm (5'4") With blade above ground											
4.6 m (15')		*1030 (2290)	*1030 (2290)			*1380 (3050)	*1380 (3050)				
3.0 m (10')		850 (1870)	660 (1450)	980 (2170)	760 (1690)	*1530 (3380)	*1530 (3380)				
0.0 m (0')		670 (1480)	500 (1110)	860 (1910)	650 (1430)	1630 (3600)	*1230 (2710)	*1400 (3080)	*1400 (3080)		
-1.5 m (5')		820 (1800)	610 (1350)			1570 (3470)	1170 (2590)				
Arm length 1620 mm (5'4") With blade on ground, Additional counterweight											
4.6 m (15')		*1030 (2290)	*1030 (2290)			*1380 (3050)	*1380 (3050)				
3.0 m (10')		*990 (2200)	720 (1580)	*1000 (2200)	830 (1840)	*1530 (3380)	*1530 (3380)				
0.0 m (0')		*1360 (3010)	560 (1230)	*1470 (3250)	720 (1580)	*2290 (5060)	1340 (2970)	*1400 (3080)	*1400 (3080)		
-1.5 m (5')		*1410 (3110)	670 (1490)			*2110 (4660)	1290 (2850)	*1050 (2320)	680 (1500)		
Arm length 1620 mm (5'4") With blade above ground, Additional counterweight											
4.6 m (15')		*1030 (2290)	*1030 (2290)			*1380 (3050)	*1380 (3050)				
3.0 m (10')		910 (2020)	720 (1580)	*1000 (2200)	830 (1840)	*1530 (3380)	*1530 (3380)				
0.0 m (0')		720 (1620)	560 (1230)	940 (2070)	720 (1580)	1760 (3880)	1340 (2970)	*1400 (3080)	*1400 (3080)		
-1.5 m (5')		890 (1960)	670 (1490)			1700 (3760)	1290 (2850)				

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

MINIMAL SWING RADIUS EXCAVATORS (UU)

PC78UU-8

Conditions:

Boom: 3750 mm (12'4"), Bucket (SAE) : 0.28 m³ (0.37 cu.yd), Shoes : 450 mm (18")

unit: kg (lb)

B	A	MAX		5.0 m (16')		4.0 m (13')		3.0 m (9')		2.0 m (6')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1720 mm (5'8") With blade on ground											
6.0 m (19')		1880* (4150)	1880* (4150)								
5.0 m (16')		1610* (3550)	1590 (3510)					2440* (5380)	2440* (5380)		
4.0 m (13')		1550* (3420)	1100 (2440)			2270* (5010)	1560 (3440)	2550* (5630)	2550* (5630)		
3.0 m (9')		1580* (3490)	880 (1940)	2140* (4710)	950 (2100)	2450* (5410)	1470 (3260)	3020* (6660)	2470 (5450)	4270* (9430)	4270* (9430)
2.0 m (6')		1680* (3710)	760 (1680)	2230* (4910)	900 (1980)	2720* (6000)	1350 (2970)	3670* (8090)	2190 (4830)		
1.0 m (3')		1870* (4130)	710 (1560)	2300* (5070)	830 (1850)	2920* (6450)	1220 (2700)	4060* (8960)	1930 (4260)		
0.0 m (0')		2090* (4610)	710 (1570)	2260* (5000)	790 (1740)	2940* (6490)	1130 (2500)	4040* (8900)	1780 (3920)		
-1.0 m (-3')		2070* (4570)	780 (1620)	2020* (4460)	770 (1700)	2770* (6110)	1090 (2420)	3730* (8230)	1740 (3840)	3540* (7800)	3540* (7800)
-2.0 m (-6')		1970* (4360)	970 (2150)			2270* (5010)	1110 (2450)	3090* (6820)	1710 (3770)	3940* (8700)	3680* (8120)
-3.0 m (-9')		1610* (3550)	1580* (3480)					1920* (4240)	1820* (4030)	2390* (5280)	2390* (5280)
Arm length 1720 mm (5'8") With blade above ground											
6.0 m (19')		1880* (4150)	1880* (4150)								
5.0 m (16')		1610* (3550)	1590 (3510)					2440* (5380)	2440* (5380)		
4.0 m (13')		1350 (2990)	1100 (2440)			1900 (4190)	1560 (3440)	2550* (5630)	2550* (5630)		
3.0 m (9')		1090 (2400)	880 (1940)	1170 (2590)	950 (2100)	1810 (3990)	1470 (3260)	3020* (6660)	2470 (5450)	4270* (9430)	4270* (9430)
2.0 m (6')		950 (2110)	760 (1680)	1120 (2470)	900 (1980)	1670 (3690)	1550 (2970)	2780 (6120)	2190 (4830)		
1.0 m (3')		900 (1980)	710 (1560)	1050 (2320)	830 (1850)	1540 (3390)	1220 (2700)	2490 (5500)	1930 (4260)		
0.0 m (0')		900 (2000)	710 (1570)	1000 (2210)	790 (1740)	1440 (3180)	1130 (2500)	2320 (5120)	1780 (3920)		
-1.0 m (-3')		990 (2200)	780 (1720)			1400 (3100)	1090 (2420)	2280 (5030)	1740 (3840)	3540* (7800)	3540* (7800)
-2.0 m (-6')		1240 (2750)	970 (2150)			7420 (3130)	1110 (2450)	2310 (5110)	1770 (3910)	3940* (8700)	3680* (8120)
-3.0 m (-9')		1610* (3550)	1580* (3480)					1920* (4240)	1820* (4030)	2390* (5280)	2390* (5280)

* Load is limited by hydraulic capacity rather than tipping.

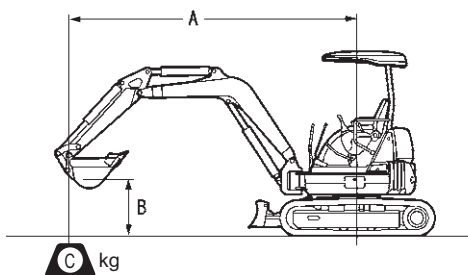
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

SECTION **2C**

LIFTING CAPACITY

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FVP02090

- A : Reach from swing center
- B : Bucket hook height
- C : Lifting capacity
- Cf : Rating over front
- Cs : Rating over side
- MAX: Rating at maximum reach

PC14R-3

Conditions:

Bucket (SAE): 0.04 m³ (0.05 cu.yd), Shoes: 230 mm (9")

unit: kg (lb)

B	A	MAX		3.0 m (10')		2.5 m (8')		2.0 m (7')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 880 mm (2'1") Blade on ground									
2.0 m (7')		*220 (485)	179 (395)			218 (480)	200 (440)	*225 (495)	*225 (495)
1.0 m (3')		*221 (485)	143 (315)			266 (585)	192 (425)	*353 (780)	267 (560)
0 m (0')		*231 (510)	147 (325)			299 (660)	182 (400)	*424 (935)	249 (550)
-1.0 m (-3')		*227 (500)	215 (470)					*293 (645)	253 (555)
Arm length 1130 mm (3'8") With blade on ground									
2.0 m (7')		*184 (405)	151 (330)			*178 (390)	*178 (390)		
1.0 m (3')		*189 (415)	123 (270)	*201 (440)	141 (310)	*235 (520)	190 (420)	*302 (665)	268 (590)
0 m (0')		*200 (440)	125 (275)	*218 (480)	135 (300)	*290 (640)	177 (390)	*413 (910)	243 (535)
-1.0 m (-3')		*208 (460)	170 (375)			*226 (500)	177 (390)	*341 (750)	242 (530)

PC16R-3

Conditions:

Bucket (SAE): 0.04 m³ (0.05 cu.yd), Shoes: 230 mm (9")

unit: kg (lb)

B	A	MAX		3.0 m		2.5 m (8')		2.0 m (7')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 965 mm (3'2") Blade on ground									
2.0 m (7')		*279 (615)	172 (380)			*278 (615)	230 (505)	*286 (630)	*286 (630)
1.0 m (3')		*284 (625)	142 (310)	*303 (670)	163 (360)	*364 (800)	217 (480)	*486 (1070)	299 (660)
0 m (0')		*296 (650)	146 (320)	*324 (715)	157 (345)	*426 (940)	204 (450)	*600 (1320)	278 (610)
-1.0 m (-3')		*298 (655)	196 (430)			*331 (730)	206 (455)	*480 (1060)	281 (620)
Arm length 1215 mm (4'0") Blade on ground									
2.0 m (7')		*242 (530)	145 (320)	*235 (520)	168 (370)	*229 (505)	*229 (505)		
1.0 m (3')		*247 (545)	122 (270)	*276 (610)	161 (355)	*324 (715)	216 (475)	*417 (920)	302 (665)
0 m (0')		*259 (570)	125 (275)	*317 (700)	152 (335)	*412 (910)	200 (440)	*584 (1290)	273 (600)
-1.0 m (-3')		*266 (585)	159 (350)			*373 (820)	197 (435)	*525 (1160)	271 (600)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC18MR-3

Conditions:

Boom: 1760 mm (5'7"), Bucket (SAE): 0.044 m³ (0.058 cu.yd), Shoes: 230 mm (9")

unit: kg (lb)

B	A	MAX		3.0 m (10')		2.0 m (7')	
		Cf	Cs	Cf	Cs	Cf	Cs
Arm length 965 mm (3'2") Blade on ground with additional counterweight (X-weight)							
3.0 m (10')		*355 (780)	*355 (780)				
2.0 m (7')		*315 (700)	215 (470)	*310 (680)	235 (520)		
1.0 m (3')		*320 (710)	180 (400)	*365 (810)	230 (510)	*650 (1435)	420 (930)
0 m (0')		*335 (740)	185 (410)	*410 (900)	220 (480)	*805 (1780)	395 (870)
-1.0 m (-3')		*340 (750)	245 (540)			*635 (1400)	400 (880)

PC20MR-3

Conditions: Boom: 1320 mm (6'1"), Bucket (SAE): 0.066 m³ (0.086 cu.yd), Shoes: 250 mm (10") unit: kg (lb)

B	A	MAX		3.0 m (10')		2.0 m (7')	
		Cf	Cs	Cf	Cs	Cf	Cs
Arm length 970 mm (3'2") Blade on ground with additional counterweight (X-weight)							
3.0 m (10')		*515 (1135)	375 (825)				
2.0 m (7')		*545 (1200)	250 (550)	*525 (1155)	310 (685)		
1.0 m (3')		*595 (1310)	225 (495)	*685 (1510)	295 (650)	*1310 (2885)	550 (1215)
0 m (0')		*655 (1445)	240 (530)	*790 (1745)	285 (630)	*1535 (3385)	530 (1170)
-1.0 m (-3')		*740 (1630)	345 (760)			*1260 (2780)	545 (1200)

PC27MR-3

Conditions: Boom: 2180 mm (7'2"), Bucket (SAE): 0.08 m³ (0.105 cu.yd), Shoes: 300 mm (12") unit: kg (lb)

B	A	MAX		4.0 m (13')		3.0 m (10')		2.0 m (7')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1100 mm (3'7") Blade on ground with additional counterweight (X-weight)									
3.0 m (10')		*695 (1530)	325 (720)			*650 (1430)	425 (940)		
2.0 m (7')		*705 (1550)	250 (550)			*795 (1750)	410 (900)	*1215 (2680)	800 (1760)
1.0 m (3')		*735 (1620)	230 (510)	*755 (1660)	240 (530)	*1065 (2350)	385 (850)		
0 m (0')		*775 (1710)	245 (540)			*1185 (2610)	370 (820)	*2230 (4920)	680 (1500)
-1.0 m (-3')		*810 (1790)	315 (690)			*1020 (2250)	370 (820)	*1820 (4010)	695 (1530)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC30MR-3

Conditions: Boom: 2285 mm (7'6"), Bucket (SAE): 0.09 m³ (0.12 cu.yd), Shoes: 300 mm (12") unit: kg (lb)

B	A	MAX		4.0 m (13')		3.0 m (10')		2.0 m (7')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1240 mm (4'1") Blade on ground with additional counterweight (X-weight)									
3.0 m (10')		*825 (1820)	290 (640)			*795 (1750)	435 (960)		
2.0 m (7')		*825 (1820)	225 (500)	*835 (1840)	250 (550)	*1000 (2200)	420 (930)		
1.0 m (3')		*845 (1860)	210 (460)	*915 (2020)	240 (530)	*1320 (2910)	385 (850)		
0 m (0')		*870 (1920)	220 (480)	*930 (2050)	230 (510)	*1440 (3170)	365 (800)	*2660 (5860)	680 (1500)
-1.0 m (-3')		*880 (1940)	275 (610)			*1250 (2760)	365 (800)	*2140 (4720)	695 (1530)

PC35MR-3

Conditions: Boom: 2540 mm (8'4"), Bucket (SAE): 0.11 m³ (0.14 cu.yd), Shoes: 300 mm (12") unit: kg (lb)

B	A	MAX		4.0 m (13')		3.0 m (10')		2.0 m (7')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1370 mm (4'6") Blade on ground with additional counterweight (X-weight)									
3.0 m (10')		*690 (1520)	385 (850)	*710 (1570)	405 (890)	*705 (1550)	*680 (1500)		
2.0 m (7')		*710 (1570)	315 (690)	*770 (1700)	400 (880)	*960 (2120)	655 (1440)		
1.0 m (3')		*845 (1860)	335 (740)	*880 (1940)	385 (850)	*1290 (2840)	610 (1350)		
0 m (0')		*885 (1950)	345 (760)	*935 (2060)	375 (830)	*1430 (3150)	580 (1280)	*2610 (5750)	1100 (2420)
-1.0 m (-3')		*920 (2030)	415 (910)			*1325 (2920)	580 (1280)	*2245 (4950)	1120 (2470)

PC45MR-3

Conditions:

Boom: 2630 mm (8'8"), Bucket (SAE): 0.14 m³ (0.18 cu.yd), Shoes: 400 mm (16") unit: kg (lb)

B	A	MAX		4.0 m (13')		3.0 m (10')		2.0 m (7')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1375 mm (4'6") Blade on ground with additional counterweight (X-weight)									
3.0 m (10')		*1020 (2250)	585 (1290)	*990 (2180)	705 (1550)	*990 (2180)	*990 (2180)		
2.0 m (7')		*1060 (2340)	500 (1100)	*1155 (2550)	690 (1520)	*1530 (3370)	1100 (2430)		
1.0 m (3')		*1120 (2470)	480 (1060)	*1380 (3040)	660 (970)	*2125 (4690)	1025 (2260)		
0 m (0')		*1195 (2640)	505 (1110)	*1505 (3310)	640 (1410)	*2345 (5170)	995 (2190)		
-1.0 m (3')		*1280 (2820)	600 (1320)	*1400 (3090)	640 (1410)	*2195 (4840)	995 (2190)	*3010 (6640)	1965 (4330)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC55MR-3

Conditions:

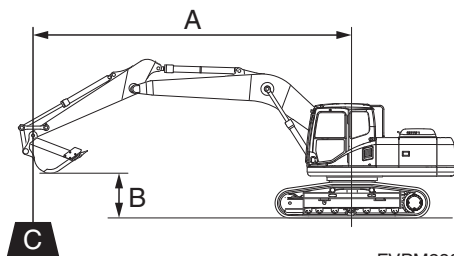
Boom: 2900 mm (9'6"), Bucket (SAE): 0.16 m³ (0.21 cu.yd), Shoes: 400 mm (16")

unit: kg (lb)

B	A	MAX		4.0 m (13')		3.0 m (10')		2.0 m (7')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1640 mm (5'5") Blade on ground with additional counterweight (X-weight)									
3.0 m (10')		*850 (1870)	500 (1100)	*845 (1860)	750 (1650)				
2.0 m (7')		*885 (1950)	440 (970)	*1050 (2320)	720 (1590)	*1435 (3160)	1140 (2510)		
1.0 m (3')		*930 (2050)	420 (930)	*1285 (2830)	680 (1500)	*2030 (4480)	1045 (2300)		
0 m (0')		*985 (2170)	435 (960)	*1435 (3160)	655 (1440)	*2260 (4980)	1005 (2220)		
-1.0 m (3')		*1050 (2320)	500 (1100)	*1415 (3120)	645 (1420)	*2170 (4780)	1000 (2200)	*2790 (6150)	1960 (4320)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC78US-8



- A : Reach from swing center
- B : Bucket hook height
- C : Lifting capacity
- Cf : Rating over front
- Cs : Rating over side
- MAX: Rating at maximum reach

Conditions:

Boom: 3710 mm (12'2"), Bucket (SAE): Shoes: 450 mm (18")

unit: kg (lb)

B	A	MAX		4.5 m (14')		3.0 m (9')		1.5 m (4')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1650 mm (5'5") Bucket (SAE): 0.28m ³ (0.37 cu.yd) Blade less									
5.0 m (16')		*1780 (3920)	1430 (3150)			*1790 (3960)	*1790 (3960)		
3.0 m (9')		1160 (2550)	860 (1910)	1500 (3320)	1130 (2500)	*2300 (5070)	2280 (5030)		
0.0 m (0')		1050 (2310)	760 (1690)	1370 (3020)	1000 (2220)	2650 (5850)	1900 (4200)		
-2.0 m (-6')		1440 (3170)	1050 (2330)	1360 (3010)	1000 (2210)	*2360 (5810)	1890 (4180)	*4060 (8960)	*4060 (8960)
Arm length 2250 mm (7'5") Bucket (SAE): 0.2m ³ (0.26 cu.yd) Blade less									
5.0 m (16')		*1420 (3140)	1090 (2420)	*1490 (3290)	1200 (2650)				
3.0 m (9')		980 (2160)	720 (1600)	1540 (3400)	1170 (2580)	*1870 (4130)	*1870 (4130)		
0.0 m (0')		880 (1950)	640 (1410)	1370 (3020)	1000 (2220)	2660 (5880)	1920 (4230)		
-2.0 m (-6')		1120 (2490)	820 (1810)	1330 (2930)	960 (2130)	2590 (5710)	1850 (4070)	*4230 (9330)	*4230 (9330)
Arm length 1650 mm (5'5") Bucket (SAE): 0.28m ³ (0.37 cu.yd) Blade on ground									
5.0 m (16')		*1780 (3920)	1500 (3310)			*1790 (3960)	*1790 (3960)		
3.0 m (9')		*1670 (3680)	910 (2020)	*1780 (3930)	1190 (2640)	*2300 (5070)	*2300 (5070)		
0.0 m (0')		*1710 (3770)	810 (1800)	*2120 (4680)	1060 (2350)	*3360 (7410)	2010 (4430)		
-2.0 m (-6')		*1650 (3650)	1120 (2460)	1510 (3330)	1060 (2340)	*2710 (5980)	2000 (4410)	*4060 (8960)	*4060 (8960)
Arm length 2250 mm (7'5") Bucket (SAE): 0.2m ³ (0.26 cu.yd) Blade on ground									
5.0 m (16')		*1420 (3140)	1150 (2540)	*1490 (3290)	1260 (2780)				
3.0 m (9')		*1350 (2990)	770 (1700)	*1570 (3470)	1230 (2710)	*1870 (4130)	*1870 (4130)		
0.0 m (0')		*1520 (3360)	680 (1510)	*2090 (4600)	1060 (2350)	*3320 (7330)	2020 (4460)		
-2.0 m (-6')		*1540 (3400)	870 (1920)	*1880 (4140)	1020 (2260)	*3010 (6640)	1950 (4300)	*4230 (9330)	*4230 (9330)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC80MR-3

Conditions:

One piece boom: Bucket (SAE): 0.2 m³, Shoes: 450 mm

unit: kg

B	A	MAX		5.0 m		4.0 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1650 mm With blade on ground									
4.5 m		*1560	1090			*1470	*1460		
3.0 m		*1580	770	*1600	940	*1770	1390		
1.5 m		*1640	680	*1890	880	*2480	1260		
0.0 m		*1730	710	*2050	840	*2840	1180		
-1.5 m		*1830	910			*2510	1180		
Arm length 1650 mm With blade on ground Add. counterweight 230 kg									
4.5 m		*1560	1140			*1470	*1460	*1300	*1300
3.0 m		*1580	820	*1600	990	*1770	1460	*2180	*2180
1.5 m		*1640	720	*1890	940	*2480	1330	*3640	2040
0.0 m		*1730	750	*2050	890	*2840	1250	*4260	1930
-1.5 m		*1830	960			*2510	1250	*3700	1960
Arm length 2000 mm With blade on ground									
4.5 m		*1400	930	*1380	950	*1200	*1200	*900	*900
3.0 m		*1330	680	*1440	950	*1540	1410	*1690	*1690
1.5 m		*1410	610	*1770	890	*2290	1280	*3670	1990
0.0 m		*1580	630	*2020	830	*2790	1170	*4300	1820
-1.5 m		*1690	780	*1840	820	*2640	1150	*3960	1820
Arm length 2000 mm With blade on ground Add. counterweight 230 kg									
4.5 m		*1400	980	*1380	1010	*1200	1200	*900	*900
3.0 m		*1330	730	*1440	1000	*1540	1480	*1690	*1690
1.5 m		*1410	650	*1770	940	*2290	1350	*3670	2090
0.0 m		*1580	670	*2020	880	*2790	1240	*4300	1920
-1.5 m		*1690	830	*1840	870	*2640	1220	*3960	1920

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC88MR-8

Conditions:

Boom: 3405 mm (11'2") Bucket (SAE): 0.28 m³ (0.37 cu.yd), Shoes: 450 mm (18")

unit: kg (lb)

B	A	MAX		5.5 m (18')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1650 mm (5'5") With blade on ground									
5.0 m (16')		1520 (3350)	1250 (2750)			*1460 (3230)	1320 (2910)		
3.0 m (9')		980 (2160)	790 (1760)	1090 (2420)	890 (1970)	1560 (3450)	1280 (2820)		
1.5 m (4')		880 (1950)	710 (1570)	1040 (2310)	840 (1870)	1460 (3230)	1180 (2610)		
0.0 m (0')		910 (2010)	730 (1610)			1380 (3040)	1100 (2440)	2630 (5810)	2040 (4510)
-1.5 m (4')		1130 (2490)	900 (1990)			1360 (3000)	1090 (2400)	2640 (5830)	2050 (4530)
-3.0 m (9')		2310 (5100)	1820 (4020)					2750 (6070)	2150 (4740)
Arm length 1650 mm (5'5") With blade on ground and additional counterweight									
5.0 m (16')		*1520 (3360)	1340 (2970)			*1460 (3230)	1420 (3140)		
3.0 m (9')		1060 (2350)	870 (1920)	1180 (2620)	970 (2150)	1680 (3710)	1380 (3050)		
1.5 m (4')		960 (2120)	780 (1720)	1140 (2510)	920 (2040)	1580 (3490)	1290 (2840)		
0.0 m (0')		990 (2200)	800 (1770)	1090 (2410)	880 (1950)	1500 (3310)	1210 (2670)	2850 (6290)	2220 (4900)
-1.5 m (4')		1230 (2710)	990 (2190)			1480 (3260)	1190 (2630)	2860 (6310)	2230 (4920)
-3.0 m (9')		2480 (5480)	1970 (4350)			1490 (3290)	1200 (2650)	2960 (6540)	2330 (5130)
Arm length 2100 mm (6'11") With blade on ground									
5.0 m (16')		1270 (2810)	1040 (2300)						
3.0 m (9')		860 (1900)	690 (1530)	1100 (2420)	890 (1970)	*1430 (3160)	1290 (2850)		
1.5 m (4')		770 (1710)	610 (360)	1030 (2280)	830 (1830)	1460 (3220)	1180 (2600)	2850 (6290)	2230 (4930)
0.0 m (0')		790 (1740)	620 (1380)	980 (2160)	780 (1720)	1350 (2980)	1070 (2370)	2580 (5700)	1990 (4400)
-1.5 m (4')		940 (2080)	750 (1650)	960 (2120)	760 (1680)	1310 (2890)	1030 (2290)	2550 (5640)	1970 (4340)
-3.0 m (9')		1590 (3510)	1260 (2780)					2630 (5810)	2040 (4500)
Arm length 2100 mm (6'11") With blade on ground and additional counterweight									
5.0 m (16')		*1310 (2890)	1120 (2480)						
3.0 m (9')		930 (2060)	760 (1670)	1180 (2610)	970 (2140)	*1430 (3160)	1390 (3060)		
1.5 m (4')		840 (1870)	680 (1500)	1120 (2470)	900 (2000)	1570 (3460)	1270 (2810)	3050 (6730)	2400 (5290)
0.0 m (0')		860 (1910)	690 (1520)	1060 (2350)	850 (1880)	1460 (3220)	1170 (2580)	2780 (6140)	2160 (4770)
-1.5 m (4')		1030 (2270)	820 (1810)	1040 (2310)	830 (1840)	1420 (3130)	1130 (2500)	2760 (6080)	2130 (4710)
-3.0 m (9')		1720 (3790)	1370 (3020)					2840 (6260)	2200 (4870)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC110R-1

Conditions:

One piece boom: Bucket (SAE): 0.36 m³ (0.47 cu.yd), Shoes: 500 mm (20")

unit: kg (lb)

B	A	MAX		6.0 m (20')		4.5 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1850 mm (6'1") With blade above ground									
4.5 m (15')		1900 (4200)	1850 (4050)						
3.0 m (10')		1400 (3100)	1250 (2750)	1450 (3200)	1400 (3100)	2200 (4850)	2200 (4850)		
1.5 m (5')		1300 (2850)	1100 (2400)	1350 (2950)	1250 (2750)	*2100 (4600)	*2100 (4600)	*3750 (8250)	*3750 (8250)
0 m (0')		1200 (2650)	1100 (2400)			*2000 (4400)	*2000 (4400)	*3600 (7900)	*3600 (7900)
-1.5 m (-5')		1200 (2650)	1100 (2400)			*2050 (4500)	*2050 (4500)	*3400 (7500)	*3400 (7500)
-3.0 m (-10')		*1500 (3300)	1250 (2750)					*3000 (6600)	*3000 (6600)
Arm length 2000 mm (6'7") With blade above ground									
4.5 m (15')		1750 (3850)	1350 (2950)						
3.0 m (10')		1300 (2850)	1000 (2200)	1400 (3100)	1250 (2750)	*2100 (4600)	*2100 (4600)		
1.5 m (5')		1200 (2650)	950 (2000)	1250 (2750)	1000 (2200)	*1950 (4300)	*1950 (4300)	*3600 (7900)	*3600 (7900)
0 m (0')		1100 (2400)	800 (1750)			*1800 (3950)	*1800 (3950)	*3550 (7800)	*3550 (7800)
-1.5 m (-5')		1150 (2500)	900 (2000)			*1900 (4200)	*1900 (4200)	*3300 (7250)	*3300 (7250)
-3.0 m (-10')		*1400 (3100)	1200 (2650)					*3000 (6600)	*3000 (6600)
Arm length 2300 mm (7'7") With blade above ground									
4.5 m (15')		1700 (3750)	1100 (2400)						
3.0 m (10')		1250 (2750)	800 (1750)	1300 (2850)	1200 (2650)	*2000 (4400)	*2000 (4400)		
1.5 m (5')		1100 (2400)	750 (1650)	1150 (2500)	900 (2000)	*1800 (3950)	*1800 (3950)	*3500 (7700)	*3500 (7700)
0 m (0')		1650 (3600)	700 (1550)			*1650 (3600)	*1650 (3600)	*3400 (7500)	*3400 (7500)
-1.5 m (-5')		1200 (2650)	700 (1550)			*1750 (3850)	*1750 (3850)	*3200 (7050)	*3200 (7050)
-3.0 m (-10')		*1400 (3100)	950 (2100)					*2950 (6500)	*2950 (6500)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC110R-1

Conditions:

One piece boom: Bucket (SAE): 0.36 m³ (0.47 cu.yd), Shoes: 500 mm (20")

unit: kg (lb)

B	A	MAX		6.0 m (20')		4.5 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1850 mm (6'1") With blade on ground									
4.5 m (15')		*2100 (4600)	1850 (4050)						
3.0 m (10')		*1750 (3850)	1250 (2750)	*1900 (4200)	1400 (3100)	*2200 (4850)	*2200 (4850)		
1.5 m (5')		*1600 (3500)	1100 (2400)	*1800 (3950)	1250 (2750)	*2100 (4600)	*2100 (4600)	*3750 (8250)	*3750 (8250)
0 m (0')		*1500 (3300)	1100 (2400)			*2000 (4400)	*2000 (4400)	*3600 (7900)	*3600 (7900)
-1.5 m (-5')		1500 (3300)	1100 (2400)			*2050 (4500)	*2050 (4500)	*3400 (7500)	*3400 (7500)
-3.0 m (-10')		*1550 (3400)	1250 (2750)					*3000 (6600)	*3000 (6600)
Arm length 2000 mm (6'7") With blade on ground									
4.5 m (15')		*2000 (4400)	1350 (2950)						
3.0 m (10')		*1600 (3500)	1000 (2200)	*1750 (3850)	1200 (2650)	*2000 (4400)	*2000 (4400)		
1.5 m (5')		*1500 (3300)	900 (2000)	1600 (3500)	900 (2000)	*1800 (3950)	*1800 (3950)	*3500 (7700)	*3500 (7700)
0 m (0')		*1400 (3100)	800 (1750)			*1650 (3600)	*1650 (3600)	*3400 (7500)	*3400 (7500)
-1.5 m (-5')		*1450 (3200)	900 (2000)			*1750 (3850)	*1750 (3850)	*3200 (7050)	*3200 (7050)
-3.0 m (-10')		*1400 (3100)	950 (2100)					*2950 (6500)	*2950 (6500)
Arm length 2300 mm (7'7") With blade on ground									
4.5 m (15')		*1800 (3950)	1100 (2400)						
3.0 m (10')		*1700 (3750)	800 (1750)	*1750 (3850)	1200 (2650)	*2000 (4400)	*2000 (4400)		
1.5 m (5')		*1400 (3100)	750 (1650)	*1600 (3500)	900 (2000)	*1800 (3950)	*1800 (3950)	*3500 (7700)	*3500 (7700)
0 m (0')		*1350 (2950)	700 (1550)			*1650 (3600)	*1650 (3600)	*3400 (7500)	*3400 (7500)
-1.5 m (-5')		*1300 (2850)	700 (1550)			*1750 (3850)	*1750 (3850)	*3200 (7050)	*3200 (7050)
-3.0 m (-10')		*1400 (3100)	950 (2100)					*2950 (6500)	*2950 (6500)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC110R-1

Conditions:

Two piece boom: Bucket (SAE): 0.36 m³ (0.47 cu.yd), Shoes: 500 mm (20")

unit: kg (lb)

B	A	MAX		6.0 m (20')		4.5 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1850 mm (6'1") With blade above ground									
4.5 m (15')		1450 (3200)	1200 (2650)	*2100 (4600)	1400 (3100)	*2350 (5150)	*2350 (5150)		
3.0 m (10')		1000 (2200)	800 (1750)	*1750 (3850)	1000 (2200)	*2000 (4400)	*2000 (4400)		
1.5 m (5')		850 (1850)	700 (1550)	*1500 (3300)	800 (1750)	*1800 (3950)	*1800 (3950)		
0 m (0')		800 (1750)	700 (1550)	*1400 (3100)	850 (1850)	*1750 (3850)	*1750 (3850)		
-1.5 m (-5')		900 (2000)	750 (1650)	*1500 (3300)	950 (2100)	1800 (3950)	1800 (3950)	*3400 (7500)	*3400 (7500)
-3.0 m (-10')		1150 (2500)	1000 (2200)			*1900 (4200)	*1900 (4200)	*3200 (7050)	*3200 (7050)
Arm length 2000 mm (6'7") With blade above ground									
4.5 m (15')		1300 (2850)	1100 (2400)	*2000 (4400)	1300 (2850)	*2250 (4950)	*2250 (4950)		
3.0 m (10')		900 (2000)	750 (1650)	*1650 (3600)	900 (2000)	*1850 (4050)	*1850 (4050)		
1.5 m (5')		800 (1750)	600 (1300)	*1400 (3100)	800 (1750)	*1500 (3300)	*1500 (3300)		
0 m (0')		750 (1650)	650 (1400)	*1300 (2850)	850 (1850)	*1350 (2950)	*1350 (2950)		
-1.5 m (-5')		900 (2000)	750 (1650)	*1400 (3100)	950 (2100)	*1600 (3500)	*1600 (3500)	*3250 (7150)	*3250 (7150)
-3.0 m (-10')		1050 (2300)	900 (2000)			*1850 (4050)	*1850 (4050)	*3100 (6800)	*3100 (6800)
Arm length 2300 mm (7'7") With blade above ground									
4.5 m (15')		1200 (2650)	1000 (2200)	*1800 (3950)	1250 (2750)	*2100 (4600)	*2100 (4600)		
3.0 m (10')		800 (1750)	700 (1550)	*1500 (3300)	950 (2100)	*1750 (3850)	*1750 (3850)		
1.5 m (5')		750 (1650)	600 (1300)	*1250 (2750)	800 (1750)	*1400 (3100)	*1400 (3100)		
0 m (0')		700 (1550)	550 (1200)	*1200 (2650)	750 (1650)	*1300 (2850)	*1300 (2850)		
-1.5 m (-5')		800 (1750)	650 (1400)	*1250 (2750)	900 (2000)	*1500 (3300)	*1500 (3300)	*3100 (6800)	*3100 (6800)
-3.0 m (-10')		1000 (2200)	800 (1750)	*1400 (3100)	950 (2100)	*1650 (3600)	*1650 (3600)	*2950 (6500)	*2950 (6500)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC110R-1

Conditions:

Two piece boom: Bucket (SAE): 0.36 m³ (0.47 cu.yd), Shoes: 500 mm (20")

unit: kg (lb)

B	A	MAX		6.0 m (20')		4.5 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1800 mm (6'1") With blade on ground									
4.5 m (15')		*2000 (4400)	1200 (2650)	*2100 (4600)	1400 (3100)	*2350 (5150)	*2350 (5150)		
3.0 m (10')		*1600 (3500)	800 (1750)	*1750 (3850)	1000 (2200)	*2000 (4400)	*2000 (4400)		
1.5 m (5')		*1400 (3100)	700 (1550)	*1500 (3300)	800 (1750)	*1800 (3950)	*1800 (3950)		
0 m (0')		*1300 (2850)	700 (1550)	*1400 (3100)	850 (1850)	*1750 (3850)	*1750 (3850)		
-1.5 m (-5')		*1400 (3100)	750 (1650)	*1500 (3300)	950 (2100)	*1800 (3950)	*1800 (3950)	*3400 (7500)	*3400 (7500)
-3.0 m (-10')		*1500 (3300)	1000 (2200)			*1900 (4200)	*1900 (4200)	*3200 (7050)	*3200 (7050)
Arm length 2000 mm (6'7") With blade on ground									
4.5 m (15')		*1900 (4200)	1100 (2400)	*2000 (4400)	1300 (2850)	*2250 (4950)	*2250 (4950)		
3.0 m (10')		*1500 (3300)	750 (1650)	*1650 (3600)	900 (2000)	*1850 (4050)	*1850 (4050)		
1.5 m (5')		*1300 (2850)	600 (1300)	*1400 (3100)	800 (1750)	*1500 (3300)	*1500 (3300)		
0 m (0')		*1200 (2650)	650 (1400)	*1300 (2850)	850 (1850)	*1350 (2950)	*1350 (2950)		
-1.5 m (-5')		*1300 (2850)	750 (1650)	*1400 (3100)	950 (2100)	*1600 (3500)	*1600 (3500)	*3250 (7150)	*3250 (7150)
-3.0 m (-10')		*1400 (3100)	900 (2000)			*1850 (4050)	*1850 (4050)	*3100 (6800)	*3100 (6800)
Arm length 2300 mm (7'7") With blade on ground									
4.5 m (15')		*1700 (3750)	1000 (2200)	*1800 (3950)	1250 (2750)	*2100 (4600)	*2100 (4600)		
3.0 m (10')		*1300 (2850)	700 (1550)	*1500 (3300)	950 (2100)	*1750 (3850)	*1750 (3850)		
1.5 m (5')		*1100 (2400)	550 (1200)	*1250 (2750)	800 (1750)	*1400 (3100)	*1400 (3100)		
0 m (0')		*1000 (2200)	550 (1200)	*1200 (2650)	750 (1650)	*1300 (2850)	*1300 (2850)		
-1.5 m (-5')		1100 (2400)	650 (1400)	*1250 (2750)	900 (2000)	*1500 (3300)	*1500 (3300)	*3100 (6800)	*3100 (6800)
-3.0 m (-10')		*1200 (2650)	800 (1750)	*1400 (3100)	950 (2100)	*1650 (3600)	*1650 (3600)	*2950 (6500)	*2950 (6500)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC120-6

Conditions:

Boom: 4600 mm (15'1"), Bucket (SAE): 0.50 m³ (0.65 cu.yd), Shoes: 500 mm (20")

unit: kg (lb)

B	A	MAX		6.0 m (20')		4.5 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2100 mm (6'11")											
6.0 m (20')		*2200 (4800)	*2200 (4800)			*3300 (7300)	3050 (6700)				
5.0 m (16')		*2050 (4600)	1900 (4200)			*3350 (7400)	3000 (6700)				
3.0 m (10')		*2050 (4600)	1400 (3100)	2450 (5400)	1700 (3800)	3950 (8800)	2800 (6200)	*5800 (12800)	5450 (12000)		
2.0 m (7')		1900 (4200)	1300 (2900)	2350 (5200)	1650 (3700)	3800 (8400)	2650 (5800)	*7550 (16700)	4900 (11000)		
0 m (0')		900 (4200)	1300 (2900)	2250 (5000)	1550 (3400)	3550 (7800)	2400 (5300)	7100 (15600)	4500 (9900)		
-2.0 m (-7')		2250 (5000)	1550 (3400)			3450 (7600)	2350 (5200)	7050 (15600)	4450 (9900)	*6900 (15200)	*6900 (15200)
-3.0 m (-10')		2800 (6200)	1950 (4300)			3500 (7700)	2400 (5300)	7150 (15800)	4550 (10000)	*9450 (20800)	*9450 (20800)
Arm length 2500 mm (8'2")											
6.0 m (20')		*1750 (3900)	*1750 (3900)								
5.0 m (16')		*1650 (3700)	1650 (3700)	*2400 (5300)	1800 (4000)						
3.0 m (10')		*1700 (3700)	1250 (2800)	2450 (5400)	1750 (3800)	*3850 (8500)	2850 (6300)	*5050 (11100)	*5050 (11100)		
2.0 m (7')		1700 (3800)	1200 (2600)	2350 (5200)	1650 (3700)	3850 (8500)	2700 (5900)	*6850 (15100)	5150 (11300)		
0 m (0')		1700 (3800)	1150 (2600)	2250 (4900)	1550 (3400)	3550 (7800)	2400 (5300)	7100 (15700)	4500 (9900)		
-2.0 m (-7')		2000 (4400)	1350 (3000)	2200 (4800)	1500 (3300)	3450 (7600)	2300 (5100)	7000 (15500)	4400 (9700)	*6050 (13400)	*6050 (13400)
-3.0 m (-10')		2400 (5300)	1650 (3600)			3450 (7600)	2350 (5100)	7100 (15600)	4450 (9900)	*8150 (18000)	*8150 (18000)
Arm length 3000 mm (9'10")											
6.0 m (20')		*1450 (3200)	*1450 (3200)	*1850 (4100)	1850 (4100)						
5.0 m (16')		*1350 (3000)	*1350 (3000)	2550 (5700)	1850 (4100)						
3.0 m (10')		*1350 (3000)	1100 (2400)	2450 (5400)	1750 (3800)	*3400 (7500)	2900 (6400)				
2.0 m (7')		*1400 (3100)	1050 (2300)	2400 (5300)	1650 (3700)	3900 (8600)	2700 (6000)	*5900 (13000)	5300 (11700)		
0 m (0')		1500 (3300)	1000 (2200)	2200 (4900)	1500 (3300)	3550 (7800)	2400 (5300)	7150 (15800)	4500 (10000)		
-2.0 m (-7')		1700 (3800)	1150 (2500)	2150 (4700)	1450 (3200)	3400 (7500)	2250 (5000)	6900 (15200)	4300 (9500)	*5200 (11500)	*5200 (11500)
-3.0 m (-10')		2000 (4400)	1350 (3000)	2150 (4700)	1450 (3200)	3400 (7500)	2250 (5000)	6950 (15300)	4350 (9600)	*6950 (15300)	*6950 (15300)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC130-8

Conditions:

Boom: 4600 mm (15'1"), Bucket (SAE): 0.50 m³ (0.65 cu.yd), Shoes: 500 mm (20")

unit: kg (lb)

B	A	MAX		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2500 mm (8'2")											
6.1 m (20')		*1950 (4300)	*1950 (4300)								
4.6 m (15')		*1800 (4000)	1650 (3600)	2850 (6200)	1950 (4300)	*3100 (6900)	*3100 (6900)				
3.0 m (10')		*1800 (4000)	1400 (3100)	2750 (6100)	1900 (4200)	*3900 (8600)	3100 (6900)	*5000 (11100)	*5000 (11100)		
1.5 m (5')		1950 (4300)	1300 (2800)	2700 (5900)	1800 (4000)	4300 (9500)	2900 (6400)	*7700 (17000)	5500 (12100)		
0 m (0')		1950 (4400)	1300 (2900)	2600 (5700)	1700 (3800)	4100 (9100)	2700 (6000)	8350 (18400)	5100 (11200)		
-1.5 m (-5')		2200 (4800)	1450 (3200)	2550 (5600)	1700 (3700)	3900 (8600)	2500 (5600)	8200 (18100)	5000 (11000)	*4750 (10400)	*4750 (10400)
-3.0 m (-10')		2800 (6200)	1850 (4100)			4050 (8900)	2650 (5800)	*7850 (17400)	5050 (11100)	*8000 (17700)	*8000 (17700)
Arm length 3000 mm (9'10")											
6.1 m (20')		*1500 (3400)	*1500 (3400)	*1850 (4100)	*1850 (4100)						
4.6 m (15')		*1400 (3100)	1400 (3100)	*2700 (6000)	1950 (4300)						
3.0 m (10')		*1400 (3100)	1200 (2600)	2750 (6100)	1900 (4200)	*3400 (7400)	3150 (6900)				
1.5 m (5')		*1500 (3300)	1100 (2400)	2650 (5900)	1800 (3900)	4350 (9600)	2900 (6400)	*6650 (14700)	5500 (12100)		
0 m (0')		1700 (3800)	1100 (2400)	2550 (5600)	1700 (3700)	4100 (9000)	2700 (5900)	8350 (18400)	5050 (11200)		
-1.5 m (-5')		1900 (4100)	1200 (2700)	2500 (5500)	1600 (3600)	3850 (8500)	2450 (5400)	8100 (17800)	4850 (10700)	*4150 (9100)	*4150 (9100)
-3.0 m (-10')		2300 (5100)	1500 (3300)	2500 (5500)	1600 (3600)	3900 (8600)	2550 (5600)	8100 (17900)	4850 (10700)	*6750 (14900)	*6750 (14900)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC130-8 (UK source)

Conditions:

Mono boom: 4600 mm (15'1"), Bucket (SAE): 0.56 m³ (0.73 cu.yd), Shoes: 700 mm (27.6") unit: kg (lb)

B	A	MAX		6.0 m (20')		4.5 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2100 mm (6'11")											
6.0 m (20')		*2400 (5300)	*2400 (5300)			*3400 (7500)	*3400 (7500)				
4.5 m (15')		*2250 (4950)	2000 (4400)	2950 (6500)	2200 (4850)	*3550 (7800)	*3550 (7800)				
3.0 m (10')		*2250 (4950)	1700 (3750)	2950 (6500)	2150 (4700)	*4350 (9550)	3450 (7600)	*6000 (13200)	*6000 (13200)		
1.5 m (5')		2200 (4850)	1550 (3400)	2850 (6250)	2050 (4500)	4550 (10000)	3250 (7150)	*8550 (18800)	6000 (13200)		
0 m (0')		2250 (4950)	1600 (3500)	2750 (6050)	2000 (4400)	4250 (9350)	3050 (6700)	*7400 (16300)	5650 (12450)		
-1.5 m (-5')		2550 (5600)	1800 (3950)	2750 (6050)	1950 (4300)	4150 (9100)	3000 (6600)	8750 (19250)	5600 (12300)	*4750 (10450)	*4750 (10450)
-3.0 m (-10')		3300 (7250)	2350 (5150)			4300 (9450)	3000 (6600)	*7550 (16600)	5750 (12650)	*8800 (19350)	*8800 (19350)
Arm length 2500 mm (8'2")											
6.0 m (20')		*1950 (4300)	*1950 (4300)								
4.5 m (15')		*1800 (3950)	1700 (3750)	3000 (6600)	2250 (4950)	*3150 (6900)	*3150 (6900)				
3.0 m (10')		*1850 (4050)	1550 (3400)	2950 (6500)	2200 (4850)	*3950 (8700)	3550 (7800)	*5200 (11450)	*5200 (11450)		
1.5 m (5')		*1950 (4300)	1450 (3200)	2850 (6250)	2100 (4600)	4550 (10000)	3300 (7250)	*7900 (17400)	6150 (13500)		
0 m (0')		2050 (4500)	1450 (3200)	2750 (6050)	2000 (4400)	4250 (9350)	3000 (6600)	*8050 (17700)	5700 (12550)		
-1.5 m (-5')		2250 (4950)	1600 (3500)	2700 (5950)	1950 (4300)	4250 (9350)	3000 (6600)	8700 (19150)	5600 (12300)	*4700 (10350)	*4700 (10350)
-3.0 m (-10')		2850 (6250)	2050 (4500)			4250 (9350)	2950 (6500)	*8050 (17700)	5700 (12550)	*7850 (17250)	*7850 (17250)
Arm length 3000 mm (9'10")											
6.0 m (20')		*1550 (3400)	*1550 (3400)	*2200 (4850)	2250 (4950)						
4.5 m (15')		*1450 (3200)	1450 (3200)	*2750 (6050)	2250 (4950)						
3.0 m (10')		*1450 (3200)	1350 (2950)	2950 (6500)	2200 (4850)	*3450 (7600)	*3450 (7600)				
1.5 m (5')		*1550 (3400)	1250 (2750)	2800 (6150)	2050 (4500)	*4550 (10000)	3300 (7250)	*6800 (14950)	6250 (13750)		
0 m (0')		*1750 (3850)	1250 (2750)	2700 (5950)	1950 (4300)	4300 (9450)	3050 (6700)	8800 (19350)	5650 (12400)		
-1.5 m (-5')		1950 (4300)	1350 (2950)	2650 (5800)	1850 (4050)	4050 (8900)	2900 (6400)	8550 (18800)	5450 (12000)	*4100 (9000)	*4100 (9000)
-3.0 m (-10')		2350 (5150)	1650 (3600)	2600 (5700)	1850 (4050)	4050 (8900)	2900 (6400)	*8450 (18600)	5500 (12100)	*6650 (14600)	*6650 (14600)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC138US-8

Conditions:

Boom: 4600 mm (15'1"), Bucket (SAE) 0.50 m³ (0.65 cu.yd), Shoes: 500 mm (20")

unit: kg (lb)

B	A	MAX		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2100 mm (6'11")									
6.1 m (20')		*2100 (4650)	*2100 (4650)			*3240 (7150)	3120 (6890)		
3.0 m (10')		*1950 (4310)	1510 (3340)	2850 (6290)	1810 (4000)	*4630 (10220)	2940 (6500)	*6480 (14300)	5720 (12620)
0.0 m (0')		2310 (5090)	1420 (3140)	2700 (5950)	1670 (3680)	4240 (9360)	2590 (5710)	*5570 (12280)	4800 (10590)
-3.0 m (-10')		3500 (7710)	2160 (4770)			4230 (9340)	2580 (5700)	*6270 (13830)	4880 (10770)
Arm length 2500 mm (8'2")									
6.1 m (20')		*1690 (3730)	*1690 (3730)			*3060 (6750)	*3060 (6750)		
3.0 m (10')		*1580 (3490)	1370 (3040)	2880 (6350)	1830 (4040)	*4320 (9530)	2990 (6600)	*5770 (12720)	*5770 (12720)
0.0 m (0')		*1940 (4280)	1290 (2850)	2690 (5950)	1660 (3680)	4260 (9390)	2600 (5730)	*5630 (12420)	4840 (10670)
-3.0 m (-10')		3000 (6630)	1850 (4090)			4180 (9230)	2540 (5600)	*6040 (13330)	4820 (10640)
Arm length 3000 mm (9'10")									
6.1 m (20')		*1380 (3050)	*1380 (3050)	*1580 (3480)	*1580 (3480)	*2690 (5940)	*2690 (5940)		
3.0 m (10')		*1280 (2830)	1200 (2660)	2900 (6390)	1850 (4080)	*3740 (8250)	3040 (6700)	*3690 (8150)	*3690 (8150)
0.0 m (0')		*1530 (3310)	1120 (2480)	2670 (5900)	1640 (3630)	4240 (9360)	2580 (5700)	*5990 (13200)	4830 (10660)
-3.0 m (-10')		2510 (5540)	1530 (3370)	2620 (5780)	1590 (3520)	4100 (9040)	2450 (5410)	*5990 (13210)	4680 (10330)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC138USLC-8

Conditions:

Boom: 4600 mm (15'1"), Bucket (SAE) 0.50 m³ (0.65 cu.yd)

unit: kg (lb)

B	A	MAX		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2500 mm (8'2") Shoes: 500 mm (20")									
6.1 m (20')		*1690 (3730)	*1690 (3730)			*3060 (6750)	*3060 (6750)		
3.0 m (10')		*1580 (3490)	*1580 (3490)	*2730 (6020)	2150 (4720)	*4290 (9480)	3360 (7420)	*5720 (12620)	*5720 (12620)
0.0 m (0')		2460 (5440)	3170 (1440)	3320 (7330)	1930 (4260)	5270 (11630)	3000 (6620)	*6260 (13810)	5590 (12330)
-3.0 m (-10')		*3480 (7670)	2140 (4720)			*4940 (10910)	2930 (6470)	*7300 (16100)	5580 (12310)
Arm length 2500 mm (8'2") Shoes: 600 mm (24")									
6.1 m (20')		*2160 (4760)	*2160 (4760)			*3060 (6750)	*3060 (6750)		
3.0 m (10')		*1580 (3490)	*1580 (3490)	3550 (7840)	2120 (4690)	*4290 (9460)	3410 (7510)	*5720 (12620)	*5720 (12620)
0.0 m (0')		*1940 (4280)	1530 (3380)	3370 (7440)	1960 (4320)	5340 (11790)	3040 (6710)	*6260 (13810)	5660 (12490)
-3.0 m (-10')		*3480 (7670)	2170 (4790)			*4940 (10910)	2970 (6560)	*7300 (16100)	5650 (12460)
Arm length 2500 mm (8'2") Shoes: 700 mm (28")									
6.1 m (20')		*1690 (3730)	*1690 (3730)			*3060 (6750)	*3060 (6750)		
3.0 m (10')		*1580 (3490)	*1580 (3490)	3600 (7950)	2150 (4750)	*4290 (9460)	3450 (7610)	*5720 (12620)	*5720 (12620)
0.0 m (0')		*1940 (4280)	1560 (3440)	3420 (7550)	1990 (4390)	5420 (11960)	3090 (6810)	*6260 (13810)	5740 (12660)
-3.0 m (-10')		*3480 (7670)	2200 (4870)	3380 (7460)	1950 (4310)	*4940 (10910)	3020 (6650)	*7300 (16100)	5730 (12640)
Arm length 3000 mm (9'10") Shoes: 500 mm (20")									
6.1 m (20')		*1380 (3050)	*1380 (3050)	*1580 (3480)	*1580 (3480)	*2690 (5940)	*2690 (5940)		
3.0 m (10')		*1280 (2830)	*1280 (2830)	*3210 (7070)	2120 (4670)	*3420 (7560)	*3420 (7560)	*3640 (8030)	*3640 (8030)
0.0 m (0')		*1530 (3370)	1320 (2920)	3310 (7300)	1910 (4220)	*5260 (11610)	2990 (6590)	*7490 (16530)	5580 (12310)
-3.0 m (-10')		*2550 (5630)	1780 (3930)	3250 (7170)	1860 (4110)	5120 (11290)	2860 (6310)	*7900 (17430)	5450 (12020)
Arm length 3000 mm (9'10") Shoes: 600 mm (24")									
6.1 m (20')		*1380 (3050)	*1380 (3050)	*1580 (3480)	*1580 (3480)	*2690 (5940)	*2690 (5940)		
3.0 m (10')		*1280 (2830)	*1280 (2830)	*3210 (7070)	2150 (4740)	*3420 (7560)	*3420 (7560)	*3640 (8030)	*3640 (8030)
0.0 m (0')		*1530 (3370)	1340 (2970)	3360 (7400)	1940 (4290)	*5330 (11770)	3030 (6680)	*7490 (16530)	5650 (12470)
-3.0 m (-10')		*2550 (5630)	1810 (2990)	3300 (7270)	1890 (4170)	5180 (11420)	2900 (6400)	*7900 (17430)	5520 (12180)
Arm length 3000 mm (9'10") Shoes: 700 mm (28")									
6.1 m (20')		*1380 (3050)	*1380 (3050)	*1580 (3480)	*1580 (3480)	*2690 (5940)	*2690 (5940)		
3.0 m (10')		*1280 (2830)	*1280 (2830)	3210 (7070)	2180 (4800)	*3420 (7560)	*3420 (7560)	*3640 (8030)	*3640 (8030)
0.0 m (0')		*1530 (3370)	1370 (3020)	3410 (7520)	1910 (4220)	5410 (11940)	3070 (6780)	*7490 (16530)	5730 (12640)
-3.0 m (-10')		*2550 (5630)	1840 (4060)	3350 (7390)	1920 (4240)	5250 (11590)	2950 (6500)	*7900 (17430)	5600 (12350)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC160LC-8

Conditions: Boom: 5150 mm (16'11"), Bucket (SAE): 0.65 m³ (0.85 cu.yd), Shoes: 500 mm (20") unit: kg (lb)

B	A	MAX		7.5 m (25')		6.0 m (20')		4.5 m (15')		3.0 m (10')		1.5 m (4')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2250 mm (7'5")													
	7.5 m (24')	*2700 (6000)	*2700 (6000)										
	6.0 m (19')	*2400 (5300)	*2400 (5300)			*3250 (7200)	2850 (6300)						
	4.5 m (14')	*2350 (5200)	2050 (4600)			*4450 (9800)	2850 (6200)	*5000 (11000)	4650 (10200)				
	3.0 m (9')	*2450 (5400)	1800 (4000)			4450 (9800)	2700 (6000)	*6300 (13900)	4300 (9500)	*9700 (21400)	8150 (18000)		
	0 m (0')	2950 (6600)	1700 (3800)			4150 (9200)	2400 (5400)	6550 (14500)	3750 (8200)	*6750 (14900)	*6750 (14900)		
	-3.0 m (-9')	4200 (9300)	2450 (5400)					6550 (14500)	3700 (8200)	*10500 (23100)	7100 (15700)	*10250 (22700)	*10250 (22700)
	-4.5 m (-14')	*4850 (10700)	4200 (9200)							*7050 (15600)	*7050 (15600)		
Arm length 2610 mm (8'7")													
	7.5 m (24')	*2200 (4900)	*2200 (4900)										
	6.0 m (19')	*2000 (4400)	*2000 (4400)			*3350 (7400)	2900 (6400)						
	4.5 m (14')	*2000 (4400)	1900 (4200)			*4200 (9200)	2850 (6300)						
	3.0 m (9')	*2050 (4600)	1650 (3700)	3050 (6700)	1800 (4000)	4500 (9900)	2750 (6000)	*5900 (13000)	4400 (9700)	*8700 (19200)	8450 (18600)		
	0 m (0')	*2650 (5900)	1600 (3500)	2900 (6400)	1700 (3700)	4150 (9200)	2450 (5400)	6600 (14600)	3750 (8300)	*7350 (16200)	6950 (15400)		
	-3.0 m (-9')	3800 (8400)	2200 (4900)			4100 (9100)	2400 (5300)	6500 (14400)	3650 (8100)	*11150 (24500)	7050 (15600)	*9200 (20300)	*9200 (20300)
	-4.5 m (-14')	*4950 (11000)	3450 (7600)					*5550 (12200)	3850 (8500)	*8200 (18000)	7350 (16200)		
Arm length 2900 mm (9'6")													
	7.5 m (24')	*1900 (4200)	*1900 (4200)										
	6.0 m (19')	*1750 (3800)	*1750 (3800)			*3250 (7200)	2950 (6500)						
	4.5 m (14')	*1700 (3800)	*1700 (3800)	*2250 (4900)	1850 (4100)	*3900 (8600)	2850 (6300)						
	3.0 m (9')	*1800 (3900)	1550 (3400)	3050 (6700)	1800 (4000)	4500 (9900)	2700 (6000)	*5500 (12200)	4400 (9700)	*7850 (17300)	*7850 (17300)		
	0 m (0')	*2250 (5000)	1450 (3200)	2850 (6300)	1650 (3600)	4100 (9100)	2400 (5300)	6600 (14500)	3700 (8200)	*7650 (16900)	6950 (15300)		
	-3.0 m (-9')	3450 (7600)	1950 (4400)			4050 (8900)	2300 (5100)	6400 (14200)	3600 (7900)	*11500 (25300)	6900 (15300)	*8400 (18500)	*8400 (18500)
	-4.5 m (-14')	*4800 (10600)	2950 (6500)					*6050 (13300)	3700 (8200)	*8900 (19600)	7200 (15800)		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC160LC-7E0 (UK source)

Conditions: Two-piece boom: Bucket (SAE): 0.65 m³, Shoes: 500 mm

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2200 mm													
	7.5 m	*3050	*3050					*3350	*3350				
	6.0 m	*2650	*2650			*2900	2850	*5100	4900				
	4.5 m	*2550	2100			*4650	2800	*6350	4650				
	3.0 m	*2650	1800			4450	2650	7250	4250	*14050	8000		
	1.5 m	*2850	1700			4250	2350	6750	3800				
	0 m	3050	1700			4100	2300	6450	3550	*7100	6550		
	-1.5 m	3400	1900			4050	2250	6350	3450	*11000	6600		
	-3.0 m							*5650	3550				
Arm length 2600 mm													
	7.5 m	*2500	*2500					*3550	*3550				
	6.0 m	*2200	*2200			*3300	2950						
	4.5 m	*2150	1950			*4600	2850	*5300	4750				
	3.0 m	*2200	1700	*2850	1750	4500	2650	7350	4300	*13200	8300		
	1.5 m	*2400	1550	2950	1600	4250	2350	6800	3850	*8300	7000		
	0 m	*2750	1600	2850	1600	4050	2300	6450	3550	*7800	6550		
	-1.5 m	3150	1750			4000	2250	6300	3450	*10900	6550		
	-3.0 m	3950	2200			4050	2300	6350	3500	*8250	6700		
Arm length 2900 mm													
	7.5 m	*2150	*2150										
	6.0 m	*1900	*1900			*3300	2950						
	4.5 m	*1850	*1800	*1850	1800	*4250	2850	*4550	*4550				
	3.0 m	*1900	1550	3050	1750	4500	2650	7400	4350	*12450	8550		
	1.5 m	*2050	1450	2900	1600	4250	2350	6850	3850	*10500	7150		
	0 m	*2350	1450	2850	1550	4050	2250	6450	3500	*8050	6550		
	-1.5 m	2900	1600			3950	2200	6250	3350	*10400	6450		
	-3.0 m	3550	1950			3950	2200	6300	3400	*9200	6550		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC160LC-7E0 (UK source)

Conditions: One-piece boom: 5150 mm, Bucket (SAE): 0.65 m³, Shoes: 500 mm

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2200 mm													
	7.5 m	*2700	*2700										
	6.0 m	*2400	*2400			*3250	2850						
	4.5 m	*2350	2050			*4450	2850	*5000	4650				
	3.0 m	*2450	1800			4450	2700	*6300	4300	*9700	8150		
	1.5 m	*2700	1700	2950	1750	4300	2550	6700	3850				
	0 m	2950	1700			4150	2400	6550	3750	*6750	*6750		
	-1.5 m	3300	1950			4100	2400	6500	3650	*10600	6950	*6200	*6200
	-3.0 m	4200	2450					6550	3700	*10500	7100	*10250	*10250
	-4.5 m	*4850	4200							*7050	*7050		
Arm length 2600 mm													
	7.5 m	*2200	*2200										
	6.0 m	*2000	*2000			*3350	2900						
	4.5 m	*2000	1900			*4200	2850						
	3.0 m	*2050	1650	3050	1800	4500	2750	*5900	4400	*8700	8450		
	1.5 m	*2300	1600	3000	1750	4300	2550	6900	4000	*7850	7350		
	0 m	*2650	1600	2900	1700	4150	2450	6600	3750	*7350	6950		
	-1.5 m	3050	1750			4100	2350	6500	3650	*10150	6950	*5800	*5800
	-3.0 m	3800	2200			4100	2400	6500	3650	*11150	7050	*9200	*9200
	-4.5 m	*4950	3450					*5550	3850	*8200	7350		
Arm length 2900 mm													
	7.5 m	*1900	*1900										
	6.0 m	*1750	*1750			*3250	2950						
	4.5 m	*1700	*1700	*2250	1850	*3900	2850						
	3.0 m	*1800	1550	3050	1800	4500	2700	*5500	4400	*7850	*7850		
	1.5 m	*1950	1450	2950	1700	4300	2550	6900	4000	*10000	7450		
	0 m	*2250	1450	2850	1650	4100	2400	6600	3700	*7650	6950		
	-1.5 m	*2800	1600	2850	1600	4050	2300	6400	3600	*9750	6800	*5400	*5400
	-3.0 m	3450	1950			4050	2300	6400	3600	*11500	6900	*8400	*8400
	-4.5 m	*4800	2950					*6050	3700	*8900	7200		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC180LC-7E0

Conditions:

One-piece boom: 5150 mm, Bucket (SAE): 0.65 m³, Shoes: 600 mm

unit :kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2200 mm													
6.0 m		*2400	*2400			*3250	*3250						
4.5 m		*2350	*2350			*4450	3450	*5000	*5000				
3.0 m		*2450	2250			*5000	3300	*6300	5250	*9700	*9700		
1.5 m		*2700	2150	3350	2200	4850	3150	*7500	4750				
0 m		3150	2150			4700	3000	7450	4650	*6750	*6750		
-1.5 m		3750	2400			4650	2950	7400	4550	10800	8800	*6200	*6200
-3.0 m		4750	3050					*7300	4600	*10500	8950	*10250	*10250
-4.5 m		*4850	*4850							*7050	*7050		
Arm length 2600 mm													
6.0 m		*2000	*2000			*3350	*3350						
4.5 m		*2000	*2000			*4200	3450						
3.0 m		*2050	*2050	*3200	2250	*4750	3350	*5900	5300	*8700	*8700		
1.5 m		*2300	2000	3400	2200	4850	3150	*7300	4900	*7850	*7850		
0 m		*2650	2050	3300	2150	4700	3000	7500	4650	*7350	*7350		
-1.5 m		*3350	2250			4650	2950	7400	4550	*10150	8750	*5800	*5800
-3.0 m		4300	2750			4650	3000	7400	4600	*11150	8900	*9200	*9200
-4.5 m		*4950	3000					*5550	4750	*8200	*8200		
Arm length 2900 mm													
6.0 m		*1750	*1750			*3250	*3250						
4.5 m		*1700	*1700	*2250	*2250	*3900	3500						
3.0 m		*1800	*1800	*3450	2250	*4550	3350	*5500	5350	*7850	*7850		
1.5 m		*1950	1850	*3350	2150	4850	3150	*7000	4950	*10000	9350		
0 m		*2250	1850	3300	2100	4700	3000	7450	4650	*7650	*7650		
-1.5 m		*2800	2050	2950	2050	4600	2900	7300	4500	*9750	8650	*5400	*5400
-3.0 m		3900	2500			4600	2900	7300	4500	*11500	8750	*8400	*8400
-4.5 m		*4600	3650					*6050	4650	*8900	*8900		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC180LC-7E0

Conditions:

Two-piece boom: Bucket (SAE): 0.65 m³, Shoes: 600 mm

unit :kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2200 mm													
	7.5 m	*3050	*3050					*3350	*3350				
	6.0 m	*2650	*2650			*2900	*2900	*5100	*5100				
	4.5 m	*2550	*2550			5000	3400	*6350	5600				
	3.0 m	*2650	2300			4800	3250	7800	5150	*14050	*9900		
	1.5 m	*2850	2150			4600	2950	7250	4700				
	0 m	*3300	2250			4450	2900	6950	4450	*7100	*7100		
	-1.5 m	3700	2450			4400	2850	6850	4350	*11000	8450		
	-3.0 m							*5650	4450				
Arm length 2600 mm													
	7.5 m	*2500	*2500					*3550	*3550				
	6.0 m	*2200	*2200			*3300	*3310						
	4.5 m	*2150	*2150			*4600	3450	*5300	*5300				
	3.0 m	*2200	2150	*2850	2200	4850	3300	7900	5250	*13200	10250		
	1.5 m	*2400	2000	3200	2050	4600	2950	7350	4750	*8300	*8300		
	0 m	*2750	2050	3150	2050	4400	2900	7000	4450	*7800	*7800		
	-1.5 m	3400	2250			4350	2850	6850	4350	*10900	8400		
	-3.0 m	*3950	2800			4200	2900	*6450	4400	*8250	*8250		
Arm length 2900 mm													
	7.5 m	*2150	*2150										
	6.0 m	*1900	*1900			*3300	*3300						
	4.5 m	*1850	*1850	*1850	*1850	*4250	3500	*4550	*4550				
	3.0 m	*1900	*1900	*3250	2200	4850	3300	*7650	5300	*12450	10500		
	1.5 m	*2050	1850	3200	2050	4600	2950	7400	4800	*10500	9050		
	0 m	*2350	1850	3100	2000	4400	2900	6950	4450	*8050	*8050		
	-1.5 m	*2900	2050			4300	2800	6800	4300	*10400	8300		
	-3.0 m	3850	2500			4300	2800	6800	4300	*9200	8400		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC180NLC-7E0

Conditions:

One-piece boom: 5150 mm, Bucket (SAE): 0.65 m³, Shoes: 500 mm

unit :kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2200 mm													
6.0 m		*2400	*2400			*3250	3250						
4.5 m		*2350	2300			*4450	3200	*5000	*5000				
3.0 m		*2450	2050	*3000		*5000	3050	*6300	4800	*9700	9100		
1.5 m		*2700	1900	3350		4850	2900	*7500	4450				
0 m		3100	1950	*3100		4700	2750	7450	4200	*6750	*6750		
-1.5 m		3700	2200			4650	2700	7400	4150	*10600	7800	*6200	*6200
-3.0 m		4650	2750			*4750	2800	*7300	4200	*10500	8000	*10250	*10250
-4.5 m		*4850	4500							*7050	*7050		
Arm length 2600 mm													
6.0 m		*2000	*2000			*3350	3300						
4.5 m		*2000	*2000			*4200	3250						
3.0 m		*2050	1900	*3200	2100	*4750	3100	*5900	4900	*8700	*8700		
1.5 m		*2300	1800	3400	2000	4850	2900	*7300	4450	*7850	*7850		
0 m		*2650	1850	3300	1950	4700	2750	7500	4250	*7350	*7350		
-1.5 m		*3350	2000			4650	2700	7350	4100	*10150	7800	*5800	*5800
-3.0 m		4250	2500			4650	2750	7400	4150	*11150	7900	*9200	*9200
-4.5 m		*4950	3800					*5550	4350	*8200	*8200		
Arm length 2900 mm													
6.0 m		*1750	*1750			*3250	3300						
4.5 m		*1700	*1700	*2250	2100	*3900	3250						
3.0 m		*1800	1750	*3450	2050	*4550	3100	*5500	*4950	*7850	*7850		
1.5 m		*1950	1650	*3350	1950	4850	2900	*7000	4500	*10000	8400		
0 m		*2250	1700	3300	1900	4700	2750	7450	4250	*7650	7200		
-1.5 m		*2800	1850	2950	1900	4600	2650	7300	4050	*9750	7750	*5400	*5400
-3.0 m		3900	2300			4600	2650	7300	4050	*11500	7850	*8400	*8400
-4.5 m		*4800	3250					*6050	4200	*8900	8050		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC180NLC-7E0

Conditions:

Two-piece boom: Bucket (SAE): 0.65 m³, Shoes: 500 mm

unit :kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2200 mm													
6.0 m		*2650	*2650			*2900	*2900	*5100	*5100				
4.5 m		*2500	2350			5000	3050	*6350	5000				
3.0 m		*2650	2000			4800	2900	*7750	4600	*14050	8650		
1.5 m		*2850	1900			4600	2600	7250	4150				
0 m		*3300	1950			4400	2550	6950	3900	*7100	*7100		
-1.5 m		3700	2150			4350	2500	6850	3800	*11000	7250		
-3.0 m								*5650	3900				
Arm length 2600 mm													
6.0 m		*2200	*2200			*3300	3250						
4.5 m		*2150	*2150			*4600	3200	*5300	5250				
3.0 m		*2200	1950	*2850	2000	4850	3000	7850	4800	*13200	9250		
1.5 m		*2400	1800	3200	1900	4600	2700	7300	4350	*8300	7950		
0 m		*2750	1850	3150	1850	4400	2650	6950	4050	*7800	7500		
-1.5 m		3400	2050			4350	2550	6850	3900	*10900	7450		
-3.0 m		*3950	2550			*4200	2600	*6450	3950	*8250	7600		
Arm length 2900 mm													
6.0 m		*1900	*1900			*3300	3300						
4.5 m		*1850	*1850	*1850	*1850	*4250	3200	*4550	*4550				
3.0 m		*1900	1800	*3200	2000	4850	3000	*7650	4850	*12450	9500		
1.5 m		*2050	1700	3200	1850	4600	2700	7350	4350	*10500	8100		
0 m		*2350	1700	3100	1800	4400	2600	6950	4000	*8050	7450		
-1.5 m		*2900	1850			4300	2500	6800	3850	*10400	7350		
-3.0 m		3850	2300			4300	2550	6800	3900	*9200	7500		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC200-8

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes: 600 mm (24") unit :kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2925 mm (9'7")													
7.6 m (25')		*2750 (6100)	*2750 (6100)			*3800 (8300)	*3800 (8300)						
6.1 m (20')		*2600 (5800)	*2600 (5800)			*4300 (9500)	4050 (8900)						
4.6 m (15')		*2650 (5800)	2150 (4800)	3950 (8800)	2600 (5700)	*4900 (10800)	3900 (8600)						
3.0 m (10')		*2800 (6100)	1950 (4300)	3850 (8500)	2500 (5500)	5650 (12500)	3700 (8100)	*7350 (16200)	5850 (12900)	*11350 (25000)	*11350 (25000)		
1.5 m (5')		3000 (6600)	1850 (4100)	3750 (8300)	2350 (5200)	5400 (11900)	3450 (7600)	8600 (19000)	5350 (11800)	*7500 (16500)	*7500 (16500)		
0 m (0')		3050 (6700)	1900 (4200)	3650 (8000)	2300 (5000)	5200 (11500)	3250 (7200)	8250 (18200)	5050 (11100)	*8000 (17700)	*8000 (17700)		
-1.5 m (-5')		3350 (7400)	2050 (4600)	3600 (7900)	2250 (4900)	5100 (11200)	3150 (7000)	8100 (17900)	4900 (10800)	*11200 (24700)	9500 (20900)	*6800 (15000)	*6800 (15000)
-3.0 m (-10')		4000 (8800)	2500 (5500)			5100 (11200)	3150 (7000)	8100 (17900)	4950 (10900)	*15600 (34400)	9650 (21300)	*10550 (23200)	*10550 (23200)
-4.6 m (-15')		5650 (12500)	3550 (7900)					8300 (18300)	5100 (11200)	*13050 (28800)	10000 (22000)		
Arm length 1840 mm (6')													
7.6 m (25')		*4800 (10600)	*4800 (10600)					*5500 (12100)	*5500 (12100)				
6.1 m (20')		*4450 (9900)	3450 (7600)			*5450 (12100)	3800 (8300)	*5700 (12600)	*5700 (12600)				
4.6 m (15')		4200 (9300)	2700 (6000)			5650 (12500)	3700 (8100)	*7000 (15400)	6000 (13200)	*9850 (21800)	*9850 (21800)		
3.0 m (10')		3750 (8300)	2350 (5200)			5450 (12000)	3500 (7700)	8600 (19000)	5350 (11800)				
1.5 m (5')		3600 (8000)	2250 (5000)	3650 (8100)	2300 (5000)	5250 (11500)	3300 (7300)	8250 (18200)	5000 (11100)				
0 m (0')		3750 (8200)	2300 (5100)			5100 (11200)	3150 (7000)	8050 (17700)	4850 (10700)				
-1.5 m (-5')		4200 (9300)	2650 (5800)			5050 (11200)	3150 (6900)	8050 (17700)	4850 (10700)	*13350 (29400)	9500 (21000)		
-3.0 m (-10')		5500 (12100)	3450 (7600)					8200 (18100)	5000 (11000)	*13200 (29100)	9800 (21600)		
Arm length 2410 mm (7'11")													
7.6 m (25')		*4300 (9500)	4300 (9400)										
6.1 m (20')		*4100 (9000)	3000 (6600)			*4850 (10700)	3950 (8700)						
4.6 m (15')		3800 (8400)	2450 (5400)	3900 (8600)	2500 (5600)	*5400 (11900)	3800 (8400)	*6200 (13600)	*6200 (13600)				
3.0 m (10')		3400 (7500)	2150 (4800)	3800 (8400)	2450 (5400)	5600 (12300)	3600 (8000)	*8100 (17800)	5700 (12600)				
1.5 m (5')		3300 (7300)	2050 (4600)	3700 (8200)	2350 (5200)	5350 (11800)	3400 (7500)	8450 (18700)	5250 (11500)				
0 m (0')		3400 (7500)	2100 (4700)	3650 (8000)	2250 (5000)	5150 (11400)	3250 (7100)	8150 (18000)	4950 (11000)	*7350 (16200)	*7350 (16200)		
-1.5 m (-5')		3750 (8300)	2350 (5200)			5100 (11200)	3150 (7000)	8100 (17800)	4900 (10800)	*12250 (27000)	9500 (21000)	*7650 (16900)	*7650 (16900)
-3.0 m (-10')		4650 (10200)	2900 (6400)			5150 (11400)	3200 (7100)	8200 (18000)	4950 (11000)	*14700 (32400)	9750 (21500)	*12650 (27900)	*12650 (27900)
-4.6 m (-15')		*7200 (15900)	4550 (10000)					*8100 (17800)	5200 (11500)	*11600 (25500)	10150 (22400)		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC200-7

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes: 600 mm (24") unit :kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2925 mm (9'7")													
7.6 m (25')		*2500 (5600)	*2500 (5600)			*3500 (7700)	*3500 (7700)						
6.1 m (20')		*2400 (5300)	*2400 (5300)			*3950 (8700)	*3950 (8700)						
4.6 m (15')		*2400 (5300)	2150 (4800)	3950 (8800)	2600 (5700)	*4500 (9900)	3900 (8600)						
3.0 m (10')		*2550 (5600)	1950 (4300)	3850 (8500)	2500 (5500)	*5350 (11800)	3700 (8100)	*6750 (14900)	5850 (12900)	*10450 (23000)	*10450 (23000)		
1.5 m (5')		*2800 (6200)	1850 (4100)	3750 (8300)	2350 (5200)	5400 (11900)	3450 (7600)	*8550 (18900)	5350 (11800)	*6950 (15300)	*6950 (15300)		
0 m (0')		3050 (6700)	1900 (4200)	3650 (8000)	2300 (5000)	5200 (11500)	3250 (7200)	8250 (18200)	5050 (11100)	*7400 (16400)	*7400 (16400)		
-1.5 m (-5')		3350 (7400)	2050 (4600)	3600 (7900)	2250 (4900)	5100 (11200)	3150 (7000)	8100 (17900)	4900 (10800)	*10400 (22900)	9500 (20900)	*6300 (13900)	*6300 (13900)
-3.0 m (-10')		4000 (8800)	2500 (5500)			5100 (11200)	3150 (7000)	8100 (17900)	4950 (10900)	*14350 (31600)	9650 (21300)	*9800 (21600)	*9800 (21600)
-4.6 m (-15')		5650 (12500)	3550 (7900)					*8300 (18300)	5100 (11200)	*12000 (26400)	10000 (22000)		
Arm length 2410 mm (7'11")													
7.6 m (25')		*4000 (8800)	*4000 (8800)										
6.1 m (20')		*3750 (8300)	3000 (6600)			*4450 (9800)	3950 (8700)						
4.6 m (15')		3800 (8400)	2450 (5400)	3900 (8600)	2500 (5600)	*4950 (10900)	3800 (8400)	*5650 (12500)	*5650 (12500)				
3.0 m (10')		3400 (7500)	2150 (4800)	3800 (8400)	2450 (5400)	5600 (12300)	3600 (8000)	*7450 (16400)	5700 (12600)				
1.5 m (5')		3300 (7300)	2050 (4600)	3700 (8200)	2350 (5200)	5350 (11800)	3400 (7500)	8450 (18700)	5250 (11500)				
0 m (0')		3400 (7500)	2100 (4700)	3650 (8000)	2250 (5000)	5150 (11400)	3250 (7100)	8150 (18000)	4950 (11000)	*6800 (15000)	*6800 (15000)		
-1.5 m (-5')		3750 (8300)	2350 (5200)			5100 (11200)	3150 (7000)	8100 (17800)	4900 (10800)	*11400 (25100)	9500 (21000)	*7100 (15700)	*7100 (15700)
-3.0 m (-10')		4650 (10200)	2900 (6400)			5150 (11400)	3200 (7100)	8200 (18000)	4950 (11000)	*13500 (29800)	9750 (21500)	*11750 (26000)	*11750 (26000)
-4.6 m (-15')		*6600 (14500)	4550 (10000)					*7400 (16300)	5200 (11500)	*10600 (23400)	10150 (22400)		
Arm length 1840 mm (6')													
7.6 m (25')		*4450 (9800)	*4450 (9800)					*5050 (11100)	*5050 (11100)				
6.1 m (20')		*4100 (9100)	3450 (7600)			*5000 (11100)	3800 (8300)	*5250 (11600)	*5250 (11600)				
4.6 m (15')		4150 (9200)	2700 (6000)			*5400 (11900)	3700 (8100)	*6400 (14100)	6000 (13200)	*9100 (20100)	*9100 (20100)		
3.0 m (10')		3750 (8300)	2350 (5200)			5450 (12000)	3500 (7700)	*8000 (17600)	5350 (11800)				
1.5 m (5')		3600 (8000)	2250 (5000)	3650 (8100)	2300 (5000)	5250 (11500)	3300 (7300)	8250 (18200)	5000 (11100)				
0 m (0')		3750 (8200)	2300 (5100)			5100 (11200)	3150 (7000)	8050 (17700)	4850 (10700)				
-1.5 m (-5')		4200 (9300)	2650 (5800)			5050 (11200)	3150 (6900)	8050 (17700)	4850 (10700)	*12400 (27400)	9500 (21000)		
-3.0 m (-10')		5500 (12100)	3450 (7600)					8200 (18100)	5000 (11000)	*12100 (26700)	9800 (21600)		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC200LC-8

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes: 700 mm (28") unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2925 mm (9'7")													
7.6 m (25')		*2750 (6100)	*2750 (6100)			*3800 (8300)	*3800 (8300)						
6.1 m (20')		*2600 (5800)	*2600 (5800)			*4300 (9500)	*4300 (9500)						
4.6 m (15')		*2650 (5800)	2550 (5600)	*4650 (10300)	3000 (6600)	*4900 (10800)	4500 (9900)						
3.0 m (10')		*2800 (6100)	2300 (5100)	*4750 (10500)	2900 (6400)	*5850 (12900)	4250 (9400)	*7350 (16200)	6750 (14900)	*11350 (25000)	*11350 (25000)		
1.5 m (5')		*3050 (6700)	2200 (4900)	4650 (10200)	2800 (6200)	6700 (14700)	4000 (8900)	*9300 (20500)	6250 (13800)	*7500 (16500)	*7500 (16500)		
0 m (0')		*3500 (7800)	2250 (5000)	4550 (10000)	2700 (5900)	6450 (14300)	3850 (8400)	10450 (23000)	5900 (13000)	*8000 (17700)	*8000 (17700)		
-1.5 m (-5')		*4150 (9200)	2450 (5400)	4500 (9900)	2650 (5800)	6350 (14000)	3750 (8200)	*10250 (22700)	5800 (12700)	*11200 (24700)	*11200 (24700)	*6800 (15000)	*6800 (15000)
-3.0 m (-10')		4950 (11000)	2950 (6500)			6350 (14000)	3750 (8200)	10300 (22700)	5800 (12800)	*15600 (34400)	11500 (25400)	*10550 (23200)	*10550 (23200)
-4.6 m (-15')		*6750 (14900)	4150 (9200)					*9050 (20000)	6000 (13200)	*13050 (28800)	11900 (26000)		
Arm length 2410 mm (7'11")													
7.6 m (25')		*4300 (9500)	*4300 (9500)										
6.1 m (20')		*4100 (9000)	3500 (7700)			*4850 (10700)	4500 (10000)						
4.6 m (15')		*4150 (9100)	2850 (6300)	*4700 (10400)	2950 (6500)	*5400 (11900)	4400 (9700)	*6200 (13600)	*6200 (13600)				
3.0 m (10')		*4250 (9300)	2550 (5600)	4700 (10400)	2850 (6300)	*6300 (13900)	4200 (9200)	*8100 (17800)	6600 (14600)				
1.5 m (5')		4100 (9000)	2450 (5400)	4600 (10200)	2750 (6100)	*6600 (14500)	3950 (8700)	*9850 (21800)	6100 (13500)				
0 m (0')		4200 (9300)	2500 (5500)	4550 (10000)	2700 (5900)	6450 (14200)	3800 (8400)	10350 (22800)	5850 (12900)	*7350 (16200)	*7350 (16200)		
-1.5 m (-5')		4650 (10300)	2750 (6100)			6350 (14000)	3750 (8300)	10250 (22600)	5800 (12700)	*12250 (27000)	11400 (25100)	*7650 (16900)	*7650 (16900)
-3.0 m (-10')		5750 (12700)	3450 (6100)			6400 (14200)	3800 (8400)	*10250 (22600)	5850 (12900)	*14700 (32400)	11600 (25600)	*12650 (27900)	*12650 (27900)
-4.6 m (-15')		*7200 (15900)	5300 (11700)					*8100 (17800)	6100 (13500)	*11600 (25500)	*11600 (25500)		
Arm length 1840 mm (6')													
6.1 m (20')		*4450 (9900)	3950 (8800)			*5450 (12100)	4350 (9600)	*5700 (12600)	*5700 (12600)				
7.6 m (25')		*4800 (10600)	*4800 (10600)					*5500 (12100)	*5500 (12100)				
4.6 m (15')		*4500 (9900)	3150 (7000)			*5900 (13000)	4250 (9400)	*7000 (15400)	*6900 (15200)	*9850 (21800)	*9850 (21800)		
3.0 m (10')		*4650 (10200)	2800 (6200)			*6700 (14800)	4050 (9000)	*8700 (19200)	6250 (13700)				
1.5 m (5')		4500 (9900)	2650 (5900)	4550 (10000)	2700 (6000)	6500 (14300)	3850 (8500)	*10350 (22800)	5900 (13000)				
0 m (0')		4650 (10300)	2750 (6100)			6350 (14000)	3750 (8200)	10200 (22500)	5700 (12600)				
-1.5 m (-5')		5250 (11600)	3100 (6900)			6350 (14000)	3700 (8200)	10200 (22500)	5700 (12600)	*13350 (29400)	11350 (25100)		
-3.0 m (-10')		6850 (15100)	4050 (8900)					*9550 (21100)	5900 (13000)	*13200 (29100)	11700 (25800)		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC200LC-7

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes: 700 mm (28") unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2925 mm (9'7")													
7.6 m (25')		*2500 (5600)	*2500 (5600)			*3500 (7700)	*3500 (7700)						
6.1 m (20')		*2400 (5300)	*2400 (5300)			*3950 (8700)	*3950 (8700)						
4.6 m (15')		*2400 (5300)	*2400 (5300)	*4300 (9400)	3000 (6600)	*4500 (9900)	4500 (9900)						
3.0 m (10')		*2550 (5600)	2300 (5100)	*4700 (10300)	2900 (6400)	*5350 (11800)	4250 (9400)	*6750 (14900)	*6750 (14900)	*10450 (23000)	*10450 (23000)		
1.5 m (5')		*2800 (6200)	2200 (4900)	4650 (10200)	2800 (6200)	*6300 (13900)	4000 (8900)	*8550 (18900)	6250 (13800)	*6950 (15300)	*6950 (15300)		
0 m (0')		*3250 (7100)	2250 (5000)	4550 (10000)	2700 (5900)	6450 (14300)	3850 (8400)	*9750 (21500)	5900 (13000)	*7400 (16400)	*7400 (16400)		
-1.5 m (-5')		*4000 (8800)	2450 (5400)	4500 (9900)	2650 (5800)	6350 (14000)	3750 (8200)	*10100 (22300)	5800 (12700)	*10400 (22900)	*10400 (22900)	*6300 (13900)	*6300 (13900)
-3.0 m (-10')		4950 (11000)	2950 (6500)			6350 (14000)	3750 (8200)	*9750 (21500)	5800 (12800)	*14350 (31600)	11500 (25400)	*9800 (21600)	*9800 (21600)
-4.6 m (-15')		*6150 (13600)	4150 (9200)					*8300 (18300)	6000 (13200)	*12000 (26400)	11900 (26000)		
Arm length 2410 mm (7'11")													
7.6 m (25')		*4000 (8800)	*4000 (8800)										
6.1 m (20')		*3750 (8300)	3500 (7700)			*4450 (9800)	*4450 (9800)						
4.6 m (15')		*3800 (8000)	2850 (6300)	*4350 (9600)	2950 (6500)	*4950 (10900)	4400 (9700)	*5650 (12500)	*5650 (12500)				
3.0 m (10')		*4050 (8900)	2550 (5600)	4700 (10400)	2850 (6300)	*5750 (12700)	4200 (9200)	*7450 (16400)	6600 (14600)				
1.5 m (5')		4100 (9000)	2450 (5400)	4600 (10200)	2750 (6100)	*6600 (14500)	3950 (8700)	*9050 (20000)	6100 (13500)				
0 m (0')		4200 (9300)	2500 (5500)	4550 (10000)	2700 (5900)	6450 (14200)	3800 (8400)	*9950 (22000)	5850 (12900)	*6800 (15000)	*6800 (15000)		
-1.5 m (-5')		4650 (10300)	2750 (7600)			6350 (14000)	3750 (8300)	*10100 (22200)	5800 (12900)	*11400 (25100)	*11400 (25100)	*7100 (15700)	*7100 (15700)
-3.0 m (-10')		5750 (12100)	3450 (7600)			6400 (14200)	3800 (8400)	*9400 (20700)	5850 (12900)	*13500 (29800)	11600 (25600)	*11750 (26000)	*11750 (26000)
-4.6 m (-15')		*6600 (14500)	5300 (11700)					*7400 (16300)	6100 (13500)	*10600 (23400)	*10600 (23400)		
Arm length 1840 mm (6')													
7.6 m (25')		*4450 (9800)	*4450 (9800)					*5050 (11100)	*5050 (11100)				
6.1 m (20')		*4100 (9100)	3950 (8800)			*5000 (11100)	4350 (9600)	*5250 (11600)	*5250 (11600)				
4.6 m (15')		*4150 (9200)	3150 (7000)			*5400 (11900)	4250 (9400)	*6400 (14100)	*6400 (14100)	*9100 (20100)	*9100 (20100)		
3.0 m (10')		*4400 (9700)	2800 (6200)			*6150 (13500)	4050 (9000)	*8000 (17600)	6250 (13700)				
1.5 m (5')		4500 (9900)	2650 (5900)	4550 (10000)	2700 (6000)	6500 (14300)	3850 (8500)	*9500 (20900)	5900 (13000)				
0 m (0')		4650 (10300)	2750 (6100)			6350 (14000)	3750 (8200)	*10050 (22100)	5700 (12600)				
-1.5 m (-5')		5250 (11600)	3100 (6900)			6350 (14000)	3700 (8200)	*9800 (21600)	5700 (12600)	*12400 (27400)	11350 (25100)		
-3.0 m (-10')		*6500 (14400)	4050 (8900)					*8750 (19300)	5900 (13000)	*12100 (26700)	11700 (25800)		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC200-8 (Thailand source)

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes: 700 mm (28")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2410 mm (7'11")													
	7.6 m (25')	*4550 (10000)	4500 (10000)										
	6.1 m (20')	*4250 (9450)	3150 (7000)			5950 (13200)	4050 (8900)						
	4.6 m (15')	3850 (8550)	2550 (5650)	3900 (8650)	2600 (5700)	5800 (12850)	3900 (8600)	*7600 (16800)	6300 (13950)				
	3.0 m (10')	3500 (7700)	2250 (5000)	3850 (8450)	2500 (5550)	5550 (12300)	3650 (8100)	8950 (19800)	5750 (12750)				
	1.5 m (5')	3350 (7400)	2150 (4750)	3700 (8200)	2400 (5300)	5300 (11750)	3450 (7600)	8400 (18550)	5300 (11650)				
	0 m (0')	3450 (7600)	2200 (4850)	3650 (8050)	2300 (5150)	5150 (11350)	3300 (7250)	8100 (17900)	5000 (11100)	*7300 (16100)	*7300 (16100)		
	-1.5 m (-5')	3800 (8400)	2400 (5400)			5050 (11200)	3200 (7150)	8050 (17750)	4950 (10950)	*12450 (27500)	9600 (21250)	*7850 (17300)	*7850 (17300)
	-3.0 m (-10')	4700 (10450)	3000 (6700)			5150 (11350)	3300 (7250)	8150 (17950)	5050 (11150)	*17500 (38650)	9850 (21750)		
	-4.6 m (-15')	7500 (16600)	4800 (10550)					8450 (18650)	5300 (11700)	*13700 (30300)	10300 (22750)		

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes:700 mm (28")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2925 mm (9'7")													
	7.6 m (25')	*2950 (6500)	*2950 (6500)			*3550 (7850)	*3550 (7850)						
	6.1 m (20')	*2800 (6150)	*2800 (6150)			*5350 (11800)	4100 (9100)						
	4.6 m (15')	*2800 (6200)	2300 (5150)	3950 (8800)	2650 (5850)	5900 (13050)	3950 (8800)	*6750 (14900)	6450 (14250)				
	3.0 m (10')	*2950 (6550)	2050 (4550)	3850 (8550)	2550 (5600)	5650 (12450)	3750 (8250)	*9050 (20000)	5900 (13100)	*14050 (31000)	11350 (25050)		
	1.5 m (5')	3050 (6800)	1950 (4350)	3750 (8250)	2400 (5350)	5350 (11850)	3500 (7700)	8550 (18850)	5400 (11900)	*7350 (16200)	*7350 (16200)		
	0 m (0')	3150 (6950)	2000 (4400)	3650 (8050)	5150 (2300)	5150 (11400)	3300 (7300)	8150 (18000)	5050 (11200)	*8250 (18250)	*8250 (18250)		
	-1.5 m (-5')	3400 (7600)	2150 (4800)	3600 (7950)	5050 (2250)	5050 (11150)	3200 (7100)	8000 (17700)	4950 (10900)	*11650 (25750)	9550 (21100)	*7250 (16000)	*7250 (16000)
	-3.0 m (-10')	4150 (9100)	2650 (5850)			5050 (11200)	3200 (7100)	8050 (17800)	4950 (11000)	*16750 (37000)	9750 (21450)	*11100 (24450)	*11100 (24450)
	-4.6 m (-15')	8450 (3800)	6000 (13200)					8150 (18050)	5050 (11200)	*15400 (34000)	22300 (10100)		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC200LC-8 (USA source)

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes: 700 mm (28")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2410 mm (7'11")													
	7.6 m (25')	*4550 (10000)	*4550 (10000)										
	6.1 m (20')	*4250 (9450)	3550 (7900)			*6050 (13350)	4550 (10000)						
	4.6 m (15')	*4300 (9500)	2900 (6450)	*4550 (10100)	2950 (6500)	*6650 (14700)	4400 (9700)	*7600 (16800)	7100 (15700)				
	3.0 m (10')	4300 (9500)	2600 (5750)	4700 (10400)	2850 (6350)	6850 (15100)	4150 (9200)	*9900 (21800)	6550 (14450)				
	1.5 m (5')	4150 (9150)	2450 (5450)	4600 (10150)	2750 (6100)	6600 (14550)	3900 (8700)	10600 (23400)	6050 (13350)				
	0 m (0')	4250 (9400)	2500 (5600)	4500 (10000)	2650 (5950)	6400 (14150)	3750 (8300)	10250 (22650)	5750 (12750)	*7300 (16100)	*7300 (16100)		
	-1.5 m (-5')	4700 (10450)	2800 (6200)			6350 (14000)	3700 (8200)	10200 (22500)	5700 (12600)	*12450 (27500)	11250 (24850)	*7850 (17300)	*7850 (17300)
	-3.0 m (-10')	5850 (12950)	3450 (7700)			6400 (14100)	3750 (8300)	10300 (22700)	5800 (12800)	*17500 (38650)	11500 (25400)		
	-4.6 m (-15')	*8800 (19450)	5450 (12050)					*9650 (21250)	6050 (13400)	*13700 (30300)	11950 (26400)		

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes:800 mm (31.5")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2410 mm (7'11")													
	7.6 m (25')	*4550 (10000)	*4550 (10000)										
	6.1 m (20')	*4250 (9450)	3600 (8000)			*6050 (13350)	4600 (10150)						
	4.6 m (15')	*4300 (9500)	2950 (6500)	*4550 (10100)	3000 (6600)	*6650 (14700)	4450 (9850)	*7600 (16800)	7200 (15850)				
	3.0 m (10')	4350 (9650)	2600 (5800)	4800 (10550)	2900 (6400)	6950 (15350)	4200 (9300)	*9900 (21800)	6600 (14650)				
	1.5 m (5')	4200 (930)	2500 (5550)	4650 (10300)	2800 (6200)	6650 (14750)	4000 (8800)	10750 (23700)	6100 (13500)				
	0 m (0')	4300 (9550)	2550 (5700)	4600 (10150)	2700 (6000)	6500 (14350)	3800 (8450)	10400 (23000)	5850 (12900)	*7300 (16100)	*7300 (16100)		
	-1.5 m (-5')	4800 (10600)	2850 (6300)			6400 (14200)	3750 (8300)	10350 (22800)	5800 (12800)	*12450 (27500)	11400 (25150)	*7850 (17300)	*7850 (17300)
	-3.0 m (-10')	5950 (13150)	3500 (7800)			6500 (14350)	3800 (8450)	10450 (23050)	5850 (12950)	*17500 (38650)	11650 (25700)		
	-4.6 m (-15')	*8800 (19450)	5550 (12200)					*9650 (21250)	6150 (13550)	*13700 (30300)	12100 (26750)		

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC200LC-8 (USA source)

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes: 700 mm (28")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2925 mm (9'7")													
7.6 m (25')		*2750 (6100)	*2750 (6100)			*3800 (8300)	*3800 (8300)						
6.1 m (20')		*2600 (5800)	*2600 (5800)			*5200 (11500)	4600 (10200)						
4.6 m (15')		*2650 (5800)	2550 (5600)	*4650 (10250)	3000 (6600)	*6000 (13300)	4500 (9900)						
3.0 m (10')		*2800 (6100)	2300 (5100)	4750 (10500)	2900 (6400)	6950 (15300)	4250 (9400)	*8900 (19700)	6800 (14900)	*13650 (30100)	13300 (29300)		
1.5 m (5')		*3050 (6700)	2200 (4800)	4650 (10250)	2800 (6100)	6650 (14700)	4000 (8800)	10850 (23900)	6250 (13800)	*7500 (16500)	*7500 (16500)		
0 m (0')		*3500 (7800)	2250 (4900)	4500 (10000)	2700 (5900)	6450 (14200)	3800 (8350)	10400 (23000)	5900 (13000)	*8000 (17700)	*8000 (17700)		
-1.5 m (-5')		4150 (9200)	2450 (5400)	4450 (9900)	2650 (5800)	6350 (14000)	3700 (8200)	10250 (22600)	5750 (12700)	*11200 (24700)	*11200 (24700)	*6800 (15000)	*6800 (15000)
-3.0 m (-10')		4950 (10900)	2950 (6500)			6350 (14000)	3700 (8200)	10300 (22700)	5800 (12700)	*16050 (36400)	11450 (25300)	*10550 (23200)	*10550 (23200)
-4.6 m (-15')		7050 (15500)	4150 (9200)					10500 (23100)	5950 (13100)	*15800 (34900)	11850 (26100)		

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes:800 mm (31.5")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2925 mm (9'7")													
7.6 m (25')		*2950 (6500)	*2950 (6500)			*3550 (7850)	*3550 (7850)						
6.1 m (20')		*2800 (6150)	*2800 (6150)			*5350 (11800)	4650 (10350)						
4.6 m (15')		*2800 (6200)	2700 (5950)	*4550 (10050)	3050 (6700)	*6150 (13550)	4500 (10000)	*6750 (14900)	*6750 (14900)				
3.0 m (10')		*2950 (6550)	2400 (5350)	4800 (10650)	2950 (6500)	7000 (15500)	4250 (9450)	*9050 (20000)	6750 (14950)	*14050 (31000)	13200 (29150)		
1.5 m (5')		*3250 (7200)	2300 (5100)	4700 (10350)	2800 (6200)	6700 (14850)	4000 (8900)	*10850 (24000)	6250 (13750)	*7350 (16200)	*7350 (16200)		
0 m (0')		*3750 (8350)	2350 (5200)	4600 (10100)	2700 (6000)	6500 (14350)	3850 (8450)	10450 (23100)	5900 (13000)	*8250 (18250)	*8250 (18250)		
-1.5 m (-5')		4350 (9600)	2550 (5650)	4550 (10000)	2650 (5900)	6400 (14150)	3750 (8250)	10300 (22800)	5750 (12750)	*11650 (25750)	11350 (25000)	*7250 (16000)	*7250 (16000)
-3.0 m (-10')		5200 (11500)	3050 (6800)			6400 (14200)	3750 (8300)	10350 (22900)	5800 (12800)	*16750 (37000)	11500 (25400)	*11100 (24450)	*11100 (24450)
-4.6 m (-15')		7550 (16700)	4450 (9800)					10500 (23150)	5900 (13050)	*15400 (34000)	11900 (26250)		

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC200LC-8 (USA source)

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes: 700 mm (28")
 Lifting mode: ON unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3900 mm (12'9")													
	7.6 m (25')	*1950 (4400)	*1950 (4400)	*2250 (4950)	*2250 (4950)								
	6.1 m (20')	*1850 (4100)	*1850 (4100)	*3550 (7850)	3100 (6850)								
	4.6 m (15')	*1800 (4050)	*1800 (4050)	*4200 (9350)	3000 (6650)	*4550 (10100)	4550 (10050)						
	3.0 m (10')	*1850 (4150)	1800 (4000)	4750 (10500)	2850 (6350)	*6050 (13300)	4250 (9450)	*7100 (15700)	6950 (15300)				
	1.5 m (5')	*2000 (4450)	1700 (3800)	4550 (10100)	2700 (6000)	6650 (14650)	3950 (8750)	*9700 (21400)	6250 (13850)	*13350 (29500)	12150 (26850)		
	0 m (0')	*2250 (4950)	1750 (3850)	4400 (9750)	2550 (5650)	6350 (14000)	3700 (8150)	10300 (22750)	5750 (12750)	*8300 (18350)	*8300 (18350)		
	-1.5 m (-5')	*2650 (5800)	1850 (4150)	4300 (9500)	2450 (5450)	6150 (13600)	3500 (7800)	10000 (22050)	5500 (12150)	*9700 (21450)	*9700 (21450)	*5250 (11550)	*5250 (11550)
	-3.0 m (-10')	*3300 (7350)	2150 (4800)	4300 (9450)	2450 (5400)	6100 (13450)	3450 (7650)	9900 (21900)	5450 (12000)	*12950 (28600)	10850 (23950)	*8050 (17750)	*8050 (17750)
	-4.6 m (-15')	*4750 (10500)	2800 (6200)			6150 (13600)	3550 (7800)	10050 (22150)	5550 (12200)	*17700 (39000)	11100 (24500)	*11600 (25600)	*11600 (25600)

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes:800 mm (31.5")
 Lifting mode: ON unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3900 mm (12'9")													
	7.6 m (25')	*1950 (4400)	*1950 (4400)	*2250 (4950)	*2250 (4950)								
	6.1 m (20')	*1850 (4100)	*1850 (4100)	*3550 (7850)	3150 (6950)								
	4.6 m (15')	*1800 (4050)	*1800 (4050)	*4200 (9350)	3050 (6750)	*4550 (10100)	*4550 (10100)						
	3.0 m (10')	*1850 (4150)	1850 (4050)	4800 (10650)	2900 (6450)	*6050 (13300)	4300 (9550)	*7100 (15700)	7000 (15500)				
	1.5 m (5')	*2000 (4450)	1750 (3900)	4650 (10250)	2750 (6100)	6750 (14900)	4000 (8850)	*9700 (21400)	6350 (14050)	*13350 (29500)	12350 (27200)		
	0 m (0')	*2250 (4950)	1750 (3900)	4500 (9900)	2600 (5750)	6450 (14200)	3750 (8300)	10450 (23100)	5850 (12900)	*8300 (18350)	*8300 (18350)		
	-1.5 m (-5')	*2650 (5800)	1900 (4200)	4350 (9650)	2500 (5550)	6250 (13800)	3600 (7900)	10150 (22400)	5600 (12350)	*9700 (21450)	*9700 (21450)	*5250 (11550)	*5250 (11550)
	-3.0 m (-10')	*3300 (7350)	2200 (4850)	4350 (9650)	2500 (5500)	6200 (13650)	3500 (7800)	10050 (22200)	5550 (12200)	*12950 (28600)	11000 (24300)	*8050 (17750)	*8050 (17750)
	-4.6 m (-15')	*4750 (10500)	2850 (6300)			6250 (13850)	3600 (7950)	10150 (22450)	5600 (12400)	*17700 (39000)	11250 (24850)	*11600 (25600)	*11600 (25600)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC210-8 (UK source)

Conditions: Boom: 5700 mm, Bucket (SAE): 0.84 m³, Shoes: 600 mm, Lifting capacities, including bucket (760 kg), bucket linkage (200 kg) and bucket cylinder (140 kg) unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm													
7.5 m		*2800	*2800			*4150	*4150						
6.0 m		*2650	2600	*3450	2800	*4250	*4250						
4.5 m		*2650	2150	4150	2750	*4850	4150	*5400	*5400				
3.0 m		*2750	1950	4000	2600	*5800	3900	*7350	6200	*11450	*11450		
1.5 m		2950	1850	3850	2500	5550	3600	8900	5600	*6350	*6350		
0 m		3000	1850	3700	2350	5300	3400	8450	5200	*7200	*7200		
-1.5 m		3250	2050	3650	2300	5200	3250	8250	5050	*10450	9800	*6300	*6300
-3.0 m		3900	2450			5200	3250	8300	5100	*15250	10000	*10050	*10050
-4.5 m		5400	3450					8550	5300	*12950	10450		
Arm length 2400 mm													
7.5 m		*4150	*4150										
6.0 m		*3950	3000			*4750	4200						
4.5 m		3750	2450	4050	2650	*5350	4050	*6200	*6200				
3.0 m		3400	2200	3950	2550	5800	3800	*8050	6000				
1.5 m		3250	2050	3800	2450	5500	3550	8700	5450				
0 m		3350	2100	3700	2350	5300	3350	8350	5150	*6750	*6750		
-1.5 m		3700	2350	3700	2350	5200	3300	8300	5100	*11600	9900	*7300	*7300
-3.0 m		4550	2900			5250	3350	8400	5150	*14500	10200	*12150	*12150
-4.5 m		*6800	4450					*8100	5450	*11500	10700		
Arm length 1800 mm													
7.5 m		*4950	*4950										
6.0 m		*4550	3450			*5450	4150	*5750	*5750				
4.5 m		4200	2750			*5900	4000	*7100	6450	*10050	*10050		
3.0 m		3750	2450	3950	2550	5700	3750	*8900	5800				
1.5 m		3600	2350	3850	2450	5450	3500	8550	5300				
0 m		3750	2400	3800	2400	5300	3350	8350	5150				
-1.5 m		4200	2700			5300	3350	8350	5150	*12100	10100		
-3.0 m		5400	3500			5450	3500	8550	5300	*13150	10400		
-4.5 m													

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC210LC-8 (UK source)

Conditions: Boom: 5700 mm, Bucket (SAE): 0.84 m³, Shoes: 600 mm, Lifting capacities, including bucket (760 kg), bucket linkage (200 kg) and bucket cylinder (140 kg) unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm													
7.5 m		*2800	*2800			*4150	*4150						
6.0 m		*2650	*2650	*3450	3200	*4250	*4250						
4.5 m		*2650	2500	*4550	3150	*4850	4750	*5400	*5400				
3.0 m		*2750	2250	4900	3050	*5800	4450	*7350	7100	*11450	*11450		
1.5 m		*3000	2200	4750	2900	*6750	4150	*9250	6450	*6350	*6350		
0 m		*3400	2200	4600	2750	6600	3950	*10450	6050	*7200	*7200		
-1.5 m		4050	2400	4550	2700	6450	3800	10450	5900	*10450	*10450	*6300	*6300
-3.0 m		4800	2900			6450	3850	*10450	5950	*15250	11900	*10050	*10050
-4.5 m		*6300	4000					*9000	6150	*12950	12350		
Arm length 2400 mm													
7.5 m		*4150	*4150										
6.0 m		*3950	3450			*4750	*4750						
4.5 m		*3950	2850	4950	3100	*5350	4650	*6200	*6200				
3.0 m		4150	2550	4850	3000	*6200	4350	*8050	6900				
1.5 m		4050	2450	4700	2850	6750	4100	*9800	6350				
0 m		4150	2500	4600	2750	6550	3900	10550	6000	*6750	*6750		
-1.5 m		4600	2750	4600	2750	6450	3850	10500	5950	*11600	*11600	*7300	*7300
-3.0 m		5650	3400			6550	3900	*10150	6050	*14500	12100	*12150	*12150
-4.5 m		*6800	5150					*8100	6300	*11500	*11500		
Arm length 1800 mm													
7.5 m		*4950	*4950										
6.0 m		*4550	3950			*5450	4700	*5750	*5750				
4.5 m		*4550	3200			*5900	4550	*7100	*7100	*10050	*10050		
3.0 m		4600	2850	4800	3000	*6700	4300	*8900	6700				
1.5 m		4450	2700	4700	2900	6750	4100	*10400	6200				
0 m		4600	2800	4650	2850	6550	3900	10550	6000				
-1.5 m		5200	3150			6550	3900	10550	6000	*12100	11950		
-3.0 m		6650	4050			6700	4050	*9600	6200	*13150	12300		
-4.5 m													

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC210NLC-8 (UK source)

Conditions: Boom: 5700 mm, Bucket (SAE): 0.84 m³, Shoes: 500 mm, Lifting capacities, including bucket (760 kg), bucket linkage (200 kg) and bucket cylinder (140 kg) unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm													
7.5 m		*2800	*2800			*4150	*4150						
6.0 m		*2650	2550	*3450	2750	*4250	*4250						
4.5 m		*2650	2150	*4550	2700	*4850	4100	*5400	*5400				
3.0 m		*2750	1900	4950	2600	*5800	3800	*7350	6050	*11450	*11450		
1.5 m		*3000	1800	4800	2450	*6750	3550	*9250	5350	*6350	*6350		
0 m		*3400	1850	4650	2350	6650	3300	*10450	5100	*7200	*7200		
-1.5 m		4100	2000	4600	2300	6500	3150	10600	4800	*10450	8800	*6300	*6300
-3.0 m		4850	2400			6550	3200	*10450	4950	*15250	9600	*10050	*10050
-4.5 m		*6300	3400					*9000	5150	*12950	10000		
Arm length 2400 mm													
7.5 m		*4150	4150										
6.0 m		*3950	2950			*4750	4150						
4.5 m		*3950	2450	*4950	2650	*5350	4000	*6200	*6200				
3.0 m		*4200	2150	4900	2550	*6200	3750	*8050	5850				
1.5 m		4100	2050	4750	2400	6850	3500	*9800	5200				
0 m		4200	2100	4650	2350	6650	3300	10700	5050	*6750	*6750		
-1.5 m		4650	2300	4650	2300	6550	3200	10600	4800	*11600	8900	*7300	*7300
-3.0 m		5700	2850			6600	3300	*10150	5050	*14500	9750	*12150	*12150
-4.5 m		*6800	4350					*8100	5300	*11500	10250		
Arm length 1800 mm													
7.5 m		*4950	*4950										
6.0 m		*4550	3400			*5450	4050	*5750	*5750				
4.5 m		*4550	2750			*5900	3950	*7100	6300	*10050	*10050		
3.0 m		4650	2400	4850	2550	*6700	3700	*8900	5700				
1.5 m		4500	2300	4750	2450	6800	3450	*10400	5100				
0 m		4700	2350	4700	2400	6600	3300	10650	5000				
-1.5 m		5250	2650			6600	3250	10650	4850	*12100	9050		
-3.0 m		6750	3400			6800	3450	*9600	5200	*13150	10000		
-4.5 m													

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC220-8

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.0 m³ (1.31 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3045 mm (10'0")													
7.6 m (25')		*3150 (7000)	*3150 (7000)			*4300 (9500)	*4300 (9500)						
6.1 m (20')		*3050 (6700)	*3050 (6700)	*4050 (8900)	3500 (7800)	*4500 (9900)	*4500 (9900)						
4.6 m (15')		*3050 (6700)	2750 (6000)	5050 (11100)	3450 (7600)	*5250 (11600)	*5200 (11400)						
3.0 m (10')		*3250 (7100)	2450 (5500)	4900 (10800)	3350 (7400)	*6450 (14200)	4900 (10800)	*8150 (17900)	7800 (17200)	*12850 (28300)	*12850 (28300)		
1.5 m (5')		*3550 (7800)	2350 (5200)	4750 (10400)	3200 (7000)	6850 (15100)	4600 (10100)	*10550 (23300)	7150 (15700)	*7400 (16300)	*7400 (16300)		
0 m (0')		3650 (8100)	2400 (5300)	4600 (10100)	3050 (6700)	6550 (14500)	4350 (9600)	10500 (23200)	6700 (14800)	*8400 (18500)	*8400 (18500)		
-1.5 m (-5')		4000 (8800)	2600 (5800)	4550 (10000)	3000 (6600)	6450 (14200)	4200 (9300)	10300 (22700)	6550 (14400)	*12000 (26400)	*12000 (26400)	*7450 (16400)	*7450 (16400)
-3.0 m (-10')		4700 (10400)	3100 (6900)			6400 (14200)	4200 (9300)	10350 (22800)	6550 (14400)	*17300 (38100)	13100 (28900)	*11150 (25500)	*11150 (25500)
-4.6 m (-15')		6500 (14300)	4300 (9500)			6600 (14500)	4350 (9600)	*10550 (23300)	6750 (14900)	*16550 (36500)	13500 (29800)		
Arm length 2500 mm (8'2")													
7.6 m (25')		*5150 (11400)	*5150 (11400)										
6.1 m (20')		*4850 (10700)	4100 (9100)			*5700 (12500)	5100 (11300)						
4.6 m (15')		4900 (10800)	3300 (7300)			*6350 (14000)	4950 (10900)	*7450 (16500)	*7450 (16500)	*10600 (23400)	*10600 (23400)		
3.0 m (10')		4400 (9700)	2950 (6500)	4750 (10400)	3200 (7000)	6900 (15200)	4650 (10300)	*9650 (21300)	7100 (15700)				
1.5 m (5')		4250 (9400)	2800 (6200)	4600 (10200)	3050 (6800)	6600 (14600)	4400 (9700)	10500 (23100)	6700 (14800)				
0 m (0')		4400 (9700)	2900 (6400)	4550 (10000)	3000 (6600)	6400 (14200)	4200 (9300)	10200 (22500)	6450 (14200)				
-1.5 m (-5')		4900 (10800)	3250 (7100)			6350 (14100)	4150 (9200)	10200 (22500)	6450 (14200)	*13950 (30800)	12900 (28400)		
-3.0 m (-10')		6200 (13700)	4100 (9100)			6500 (14300)	4300 (9400)	10400 (22900)	6600 (14600)	*16750 (36900)	13250 (29200)		
-4.6 m (-15')		*8900 (19500)	6800 (15000)					*9100 (20100)	7000 (15500)				
Arm length 2000 mm (6'7")													
7.6 m (25')		*4950 (11000)	*4950 (11000)			*5000 (11100)	*5000 (11100)						
6.1 m (20')		*4750 (10500)	3750 (8300)			*5100 (11300)	*5100 (11300)						
4.6 m (15')		4550 (10000)	3100 (6800)	4950 (10900)	3350 (7400)	*5850 (12900)	5050 (11100)	*6650 (14700)	*6650 (14700)				
3.0 m (10')		4100 (9100)	2750 (6100)	4800 (10600)	3250 (7200)	*6950 (15300)	4750 (10500)	*9000 (19900)	7500 (16600)				
1.5 m (5')		3950 (8700)	2600 (5800)	4650 (10300)	3100 (6900)	6700 (14800)	4450 (9900)	10700 (23600)	6900 (15200)				
0 m (0')		4050 (9000)	2700 (5900)	4550 (10000)	3000 (6600)	6450 (14300)	4250 (9400)	10300 (22800)	6550 (14500)	*7850 (17300)	*7850 (17300)		
-1.5 m (-5')		4500 (9900)	2950 (6500)	4500 (10000)	3000 (6600)	6400 (14100)	4200 (9200)	10200 (22500)	6450 (14300)	*13400 (29500)	12850 (28300)	*8650 (19000)	*8650 (19000)
-3.0 m (-10')		5500 (12100)	3650 (8000)			6450 (14200)	4250 (9300)	10350 (22800)	6550 (14500)	*17900 (39500)	13100 (28900)	*14150 (31200)	*14150 (31200)
-4.6 m (-15')		*8350 (18400)	5500 (12100)					*10250 (22600)	6650 (14700)	*14950 (32900)	13650 (30100)		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC220-7

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.0 m³ (1.31 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3045 mm (10'0")													
7.6 m (25')		*2900 (6400)	*2900 (6400)			*3900 (8700)	*3900 (8700)						
6.1 m (20')		*2750 (6100)	*2750 (6100)	*3700 (8200)	3500 (7800)	*4100 (9000)	*4100 (9000)						
4.6 m (15')		*2800 (6200)	2750 (6000)	*4600 (10100)	3450 (7600)	*4800 (10600)	*4800 (10600)						
3.0 m (10')		*2950 (6500)	2450 (5500)	4900 (10800)	3350 (7400)	*5900 (13000)	4900 (10800)	*7450 (17900)	*7450 (17900)	*11800 (26000)	*11800 (26000)		
1.5 m (5')		*3250 (7200)	2350 (5200)	4750 (10400)	3200 (7000)	6850 (15100)	4600 (10100)	*9700 (21400)	7150 (15700)	*6850 (15100)	*6850 (15100)		
0 m (0')		3650 (8100)	2400 (5300)	4600 (10100)	3050 (6700)	6550 (14500)	4350 (9600)	10500 (23200)	6700 (14800)	*7800 (17100)	*7800 (17100)		
-1.5 m (-5')		4000 (8800)	2600 (5800)	4550 (10000)	3000 (6600)	6450 (14200)	4200 (9300)	10300 (22700)	6550 (14400)	*11150 (24600)	*11150 (24600)	*6900 (15200)	*6900 (15200)
-3.0 m (-10')		4700 (10400)	3100 (6900)			6400 (14200)	4200 (9300)	10350 (22800)	6550 (14500)	*16050 (35400)	13100 (28900)	*10750 (23700)	*10750 (23700)
-4.6 m (-15')		6500 (14300)	4300 (9500)			6600 (14500)	4350 (9600)	*10400 (23000)	6750 (14900)	*15200 (33500)	13500 (29800)		
Arm length 2500 mm (8'2")													
7.6 m (25')		*4600 (10100)	*4600 (10100)			*4650 (10200)	*4650 (10200)						
6.1 m (20')		*4400 (9700)	3750 (8300)			*4650 (10300)	*4650 (10300)						
4.6 m (15')		*4450 (9800)	3100 (6800)	4950 (10900)	3350 (7400)	*5350 (11700)	5050 (11100)	*6100 (13500)	*6100 (13500)				
3.0 m (10')		4100 (9100)	2750 (6100)	4800 (10600)	3250 (7200)	*6350 (14000)	4750 (10500)	8250 (18200)	7500 (16600)				
1.5 m (5')		3950 (8700)	2600 (5800)	4650 (10300)	3100 (6900)	6700 (14800)	4450 (9900)	*10300 (22700)	6900 (15200)				
0 m (0')		4050 (9000)	2700 (5900)	4550 (10000)	3000 (6600)	6450 (14300)	4250 (9400)	10300 (22800)	6550 (14500)	*7250 (16000)	*7250 (16000)		
-1.5 m (-5')		4500 (9900)	2950 (6500)	4500 (10000)	3000 (6600)	6400 (14100)	4200 (9200)	10200 (22500)	6450 (14300)	*12450 (27400)	*12450 (27400)	*8000 (17700)	*8000 (17700)
-3.0 m (-10')		5500 (12100)	3650 (8000)			6450 (14200)	4250 (9300)	10350 (22800)	6550 (14500)	*16450 (36300)	13100 (28900)	*13150 (29000)	*13150 (29000)
-4.6 m (-15')		*8000 (17600)	5500 (12100)					*9350 (20600)	6650 (14700)	*13700 (30200)	13650 (30100)		
Arm length 2000 mm (6'7")													
7.6 m (25')		*4750 (10500)	*4750 (10500)										
6.1 m (20')		*4500 (9900)	4100 (9100)			*5200 (11400)	5100 (11300)						
4.6 m (15')		*4550 (10000)	3300 (7300)			*5800 (12800)	4950 (10900)	*6850 (15100)	*6850 (15100)	*9750 (21500)	*9750 (21500)		
3.0 m (10')		4400 (9700)	2950 (6500)	4750 (10400)	3200 (7000)	*6750 (14900)	4650 (10300)	*8850 (19500)	7100 (15700)				
1.5 m (5')		4250 (9400)	2800 (6200)	4600 (10200)	3050 (6800)	6600 (14600)	4400 (9700)	10500 (23100)	6700 (14800)				
0 m (0')		4400 (9700)	2900 (6400)	4550 (10000)	3000 (6600)	6400 (14200)	4200 (9300)	10200 (22500)	6450 (14200)				
-1.5 m (-5')		4900 (10800)	3250 (7100)			6350 (14100)	4150 (9200)	10200 (22500)	6450 (14200)	*13000 (28600)	12900 (28400)		
-3.0 m (-10')		6200 (13700)	4100 (9100)			6500 (14300)	4300 (9400)	10400 (22900)	6600 (14600)	*15350 (33900)	13250 (29200)		
-4.6 m (-15')		*8150 (17900)	6800 (15000)					*8350 (18400)	7700 (15500)				

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC220LC-8

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.0 m³ (1.31 cu.yd), Shoes: 700 mm (28") unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3045 mm (10'0")													
7.6 m (25')		*3150 (7000)	*3150 (7000)			*4300 (9500)	*4300 (9500)						
6.1 m (20')		*3050 (6700)	*3050 (6700)	*4050 (8900)	*4050 (8900)	*4500 (9900)	*4500 (9900)						
4.6 m (15')		*3050 (6700)	*3050 (6700)	*5050 (11100)	4000 (8800)	*5250 (11600)	*5250 (11600)						
3.0 m (10')		*3250 (7100)	2900 (6400)	*5650 (12500)	3850 (8500)	*6450 (14200)	5650 (12400)	*8150 (17900)	*8150 (17900)	*12850 (28300)	*12850 (28300)		
1.5 m (5')		*3550 (7800)	2800 (6200)	5800 (12800)	3700 (8200)	*7700 (17000)	5350 (11700)	*10550 (23300)	8300 (18300)	*7400 (16300)	*7400 (16300)		
0 m (0')		*4050 (9000)	2850 (6300)	5650 (12500)	3600 (7900)	8100 (17900)	5100 (11200)	*12200 (26900)	7900 (17400)	*8400 (18500)	*8400 (18500)		
-1.5 m (-5')		4900 (10800)	3100 (6800)	5600 (12300)	3500 (7800)	7950 (17500)	4950 (10900)	*12900 (28400)	7700 (17000)	*12000 (26400)	12000 (26400)	*7450 (16400)	*7450 (16400)
-3.0 m (-10')		5800 (12800)	3650 (8100)			7950 (17500)	4950 (10900)	*12700 (28000)	7750 (17000)	*17300 (38100)	15700 (34600)	*11500 (25500)	*11500 (25500)
-4.6 m (-15')		*7950 (17600)	5050 (11100)			*8100 (17800)	5100 (11300)	*11350 (25100)	7950 (17500)	*16550 (36500)	16150 (35600)		
Arm length 2500 mm (8'2")													
7.6 m (25')		*5150 (11400)	*5150 (11400)										
6.1 m (20')		*4850 (10700)	4750 (10500)			*5700 (12500)	*5700 (12500)						
4.6 m (15')		*4900 (10800)	3850 (8500)			*6350 (14000)	5700 (12500)	*7450 (16500)	*7450 (16500)	*10600 (23400)	*10600 (23400)		
3.0 m (10')		*5200 (11500)	3450 (7600)	*5800 (12800)	3700 (8200)	*7350 (16300)	5400 (11900)	*9650 (21300)	8300 (18300)				
1.5 m (5')		5200 (11500)	3300 (7300)	5650 (12500)	3600 (7900)	8150 (18000)	5100 (11300)	*11750 (25900)	7850 (17300)				
0 m (0')		5400 (11900)	3400 (7500)	5600 (12300)	3500 (7700)	7950 (17500)	4950 (10900)	*12700 (28000)	7600 (16800)				
-1.5 m (-5')		6050 (13300)	3800 (8400)			7900 (17400)	4900 (10800)	*12700 (28000)	7600 (16800)	*13950 (30800)	*13950 (30800)		
-3.0 m (-10')		*7650 (16600)	4800 (10600)			8050 (17700)	5000 (11100)	*11800 (26100)	7750 (17100)	*16750 (36900)	*15850 (34900)		
-4.6 m (-15')		*8900 (19600)	7950 (17500)					*9100 (20100)	8200 (18000)				
Arm length 2000 mm (6'7")													
7.6 m (25')		*4950 (11000)	*4950 (11000)			*5000 (11100)	*5000 (11100)						
6.1 m (20')		*4750 (10500)	4350 (9600)			*5100 (11300)	*5100 (11300)						
4.6 m (15')		*4850 (10700)	3600 (7900)	*5500 (12200)	3900 (8600)	*5850 (12900)	5800 (12800)	*6650 (14700)	*6650 (14700)				
3.0 m (10')		5050 (11100)	3250 (7100)	5900 (13000)	3800 (8400)	*6950 (15300)	5500 (12100)	*9000 (19900)	8700 (19200)				
1.5 m (5')		4850 (10800)	3100 (5800)	5700 (12600)	3650 (8000)	*8100 (17900)	5200 (11500)	*11200 (24800)	8050 (17800)				
0 m (0')		5000 (11100)	3150 (7000)	5600 (12400)	3550 (7800)	8000 (17600)	5000 (11000)	*12500 (27600)	7700 (17000)	*7850 (17300)	*7850 (17300)		
-1.5 m (-5')		5550 (12200)	3500 (7700)	5550 (12300)	3500 (7700)	7900 (17400)	4900 (10800)	*12850 (28300)	7650 (16800)	*13400 (29500)	*13400 (29500)	*8650 (19000)	*8650 (19000)
-3.0 m (-10')		6800 (14900)	4250 (9400)			7950 (17600)	4950 (10900)	*12300 (27100)	7700 (17000)	*17900 (39500)	15700 (34700)	*14150 (31200)	*14150 (31200)
-4.6 m (-15')		*8750 (19300)	6400 (14100)					*10250 (22600)	7800 (17200)	*14950 (32900)	*14950 (32900)		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC220LC-7

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.0 m³ (1.31 cu.yd), Shoes: 700 mm (28") unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3045 mm (10'0")													
7.6 m (25')		*2900 (6400)	*2900 (6400)			*3900 (8700)	*3900 (8700)						
6.1 m (20')		*2750 (6100)	*2750 (6100)	*3700 (8200)	*3700 (8200)	*4100 (9000)	*4100 (9000)						
4.6 m (15')		*2800 (6200)	*2800 (6200)	*4600 (10100)	4000 (8800)	*4800 (10600)	*4800 (10600)						
3.0 m (10')		*2950 (6500)	2900 (6400)	*5150 (11400)	3850 (8500)	*5900 (13000)	5650 (12400)	*7450 (16500)	*7450 (16500)	*11800 (26000)	*11800 (26000)		
1.5 m (5')		*3250 (7200)	2800 (6200)	*5800 (12800)	3700 (8200)	*7050 (15500)	5350 (11700)	*9700 (21400)	8300 (18300)	*6850 (15100)	*6850 (15100)		
0 m (0')		*3750 (8300)	2850 (6300)	5650 (12500)	3600 (7900)	*8000 (17600)	5100 (11200)	*11200 (24700)	7900 (17400)	*7800 (17100)	*7800 (17100)		
-1.5 m (-5')		*4600 (10100)	3100 (6800)	5600 (12300)	3500 (7800)	7950 (17500)	4950 (10900)	*11800 (26100)	7700 (17000)	*11150 (24600)	11150 (24600)	*6900 (15200)	*6900 (15200)
-3.0 m (-10')		5800 (12800)	3650 (8100)			7950 (17500)	4950 (10900)	*11650 (25700)	7750 (17000)	*16050 (35400)	15700 (34600)	*10750 (23700)	*10750 (23700)
-4.6 m (-15')		*7250 (16000)	5050 (11100)			*7400 (16300)	5100 (1130)	*10400 (23000)	7950 (17500)	*15200 (33500)	*15200 (33500)		
Arm length 2500 mm (8'2")													
7.6 m (25')		*4600 (10100)	*4600 (10100)			*4650 (10200)	*4650 (10200)						
6.1 m (20')		*4400 (9700)	4350 (9600)			*4650 (10300)	*4650 (10300)						
4.6 m (15')		*4450 (9800)	3600 (7900)	*5000 (11100)	3900 (8600)	*5350 (11700)	*5350 (11700)	*6100 (13500)	*6100 (13500)				
3.0 m (10')		*4750 (10500)	3250 (7100)	*5500 (12100)	3800 (8400)	*6350 (14000)	5500 (12100)	*8250 (18200)	*8250 (18200)				
1.5 m (5')		4850 (10800)	3100 (5800)	5700 (12600)	3650 (8000)	*7400 (16300)	5200 (11500)	*10300 (22700)	8050 (17800)				
0 m (0')		5000 (11100)	3150 (7000)	5600 (12400)	3550 (7800)	8000 (17600)	5000 (11000)	*11450 (25300)	7700 (17000)	*7250 (16000)	*7250 (16000)		
-1.5 m (-5')		5550 (12200)	3500 (7700)	5550 (12300)	3500 (7700)	7900 (17400)	4900 (10800)	*11800 (26000)	7650 (16800)	*12450 (27400)	*12450 (27400)	*8000 (17700)	*8000 (17700)
-3.0 m (-10')		6800 (14900)	4250 (9400)			7950 (17600)	4950 (10900)	*11250 (24900)	7700 (17000)	*16450 (36300)	15700 (34700)	*13150 (29000)	*13150 (29000)
-4.6 m (-15')		*8000 (17600)	6400 (14100)					*9350 (20600)	7800 (17200)	*13700 (30200)	*13700 (30200)		
Arm length 2000 mm (6'7")													
7.6 m (25')		*4750 (10500)	*4750 (10500)										
6.1 m (20')		*4500 (9900)	*4500 (9900)			*5200 (11400)	*5200 (11400)						
4.6 m (15')		*4550 (10000)	3850 (8500)			*5800 (12800)	5700 (12500)	*6850 (15100)	*6850 (15100)	*9750 (21500)	*9750 (21500)		
3.0 m (10')		*4800 (10600)	3450 (7600)	*5800 (12800)	3700 (8200)	*6750 (14900)	5400 (11900)	*8850 (19500)	8300 (18300)				
1.5 m (5')		5200 (11500)	3300 (7300)	5650 (12500)	3600 (7900)	*7700 (17000)	5100 (11300)	*10800 (23800)	7850 (17300)				
0 m (0')		5400 (11900)	3400 (7500)	5600 (12300)	3500 (7700)	7950 (17500)	4950 (10900)	*11650 (25700)	7600 (16800)				
-1.5 m (-5')		6050 (13300)	3800 (8400)			7900 (17400)	4900 (10800)	*11650 (25700)	7600 (16800)	*13000 (28600)	*13000 (28600)		
-3.0 m (-10')		*7550 (16600)	4800 (10600)			7850 (17300)	5000 (11100)	*10850 (23900)	7750 (17100)	*15350 (33900)	*15350 (33900)		
-4.6 m (-15')		*8150 (17900)	7950 (17500)					*8350 (18400)	8200 (18000)				

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC220LC-8 (USA source)

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.0 m³ (1.31 cu.yd)

Lifting mode: ON

unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3045 mm (10'0"), Shoe: 700 mm (28")													
7.6 m (25')	*3150 (7000)	*3150 (7000)			*4750 (10500)	*4750 (10500)							
6.1 m (20')	*3050 (6700)	*3050 (6700)	*4050 (8900)	*4050 (8900)	*4950 (10900)	*4950 (10900)							
4.6 m (15')	*3050 (6700)	*3050 (6700)	*5600 (12300)	4000 (8900)	*5800 (12800)	*5800 (12800)							
3.0 m (10')	*3200 (7100)	2900 (6400)	6000 (13200)	3900 (8600)	*7100 (15600)	5650 (12500)	*8900 (19700)	*8900 (19700)	*14000 (30900)	*14000 (30900)			
1.5 m (5')	*3550 (7800)	2800 (6200)	5800 (12800)	3700 (8200)	8400 (18500)	5350 (11800)	*11550 (25500)	8300 (18300)	*7400 (16300)	*7400 (16300)			
0 m (0')	*4050 (9000)	2850 (6300)	5650 (12500)	3600 (7900)	8100 (17900)	5100 (11200)	13200 (29100)	7850 (17400)	*8400 (18500)	*8400 (18500)			
-1.5 m (-5')	4900 (10800)	3100 (6800)	5600 (12300)	3500 (7800)	7950 (17600)	4950 (10900)	13000 (28700)	7700 (17000)	*12000 (26400)	*12000 (26400)	*7450 (16400)	*7450 (16400)	
-3.0 m (-10')	5800 (12800)	3650 (8100)			7950 (17500)	4950 (10900)	13050 (28700)	7700 (17000)	*17250 (38100)	15650 (34600)	*11550 (25500)	*11550 (25500)	
-4.6 m (-15')	8000 (17700)	5050 (11100)			8150 (17900)	5100 (11300)	*12450 (27500)	7900 (17500)	*18100 (39900)	16100 (35500)			
Arm length 3045 mm (10'0"), Shoe: 800 mm (31.5")													
7.6 m (25')	*3300 (7350)	*3300 (7350)			*4900 (10850)	*4900 (10850)							
6.1 m (20')	*3150 (7000)	*3150 (7000)	*3900 (8650)	*3900 (8650)	*5050 (11150)	*5050 (11150)							
4.6 m (15')	*3200 (7100)	*3200 (7100)	*5650 (12500)	4050 (9000)	*5900 (13000)	*5900 (13000)							
3.0 m (10')	*3350 (7450)	3000 (6650)	6050 (13350)	3900 (8650)	*7150 (15800)	5700 (12550)	*9050 (19950)	9050 (19950)	*14300 (31600)	*14300 (31600)			
1.5 m (5')	*3700 (8150)	2900 (6400)	5850 (12950)	3750 (8300)	8450 (18650)	5350 (11850)	*11650 (25700)	8300 (18400)	*7150 (15800)	*7150 (15800)			
0 m (0')	*4250 (9350)	2950 (6500)	5700 (12650)	3600 (8000)	8150 (18050)	5100 (11300)	13300 (29300)	7900 (17400)	*8500 (18700)	*8500 (18700)			
-1.5 m (-5')	5050 (11200)	3200 (7050)	5650 (12500)	3550 (7850)	8000 (17700)	5000 (11000)	13100 (28900)	7700 (17050)	*12250 (27050)	*12250 (27050)	*7700 (16950)	*7700 (16950)	
-3.0 m (-10')	6000 (13250)	3800 (8350)			8050 (17750)	5000 (11000)	13150 (28950)	7750 (17150)	*17750 (39150)	15750 (34750)	*11950 (26300)	*11950 (26300)	
-4.6 m (-15')	8350 (18450)	5250 (11550)					*12300 (27150)	7950 (17600)	*17850 (39350)	16200 (35750)			

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC220LC-8 (USA source)

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.0 m³ (1.31 cu.yd), Lifting mode: ON unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6"), Shoes 700 mm (28")													
7.6 m (25')		*2550 (5650)	*2550 (5650)										
6.1 m (20')		*2450 (5500)	*2450 (5500)	*3600 (8000)	*3600 (8000)								
4.6 m (15')		*2550 (5600)	*2550 (5600)	*5100 (11250)	4000 (8850)	*5250 (11600)	*5250 (11600)						
3.0 m (10')		*2700 (6000)	*2700 (6000)	*5800 (12850)	3800 (8450)	*6500 (14400)	5600 (12400)	*8050 (17750)	*8050 (17750)	*11900 (26250)	*11900 (26250)		
1.5 m (5')		*3000 (6650)	2650 (5850)	5700 (12650)	3650 (8050)	*7950 (17500)	5250 (11550)	*10650 (23450)	8100 (17850)	*11550 (25500)	*11550 (25500)		
0 m (0')		*3500 (7800)	2650 (5900)	5550 (12250)	3450 (7650)	7950 (17600)	4950 (10900)	*12700 (28100)	7650 (16950)	*10200 (22450)	*10200 (22450)	*4700 (10400)	*4700 (10400)
-1.5 m (-5')		*4400 (9750)	2850 (6350)	5450 (12050)	3350 (7450)	7750 (17150)	4750 (10550)	12700 (28050)	7450 (16400)	*12650 (27950)	*12650 (27950)	*7900 (17450)	*7900 (17450)
-3.0 m (-10')		5450 (12050)	3400 (7400)			7750 (17100)	4750 (10450)	12700 (28050)	7400 (16350)	*16700 (36850)	15100 (33300)	*11250 (24850)	*11250 (24850)
-4.6 m (-15')		7400 (16300)	4550 (10100)			7900 (17400)	4850 (10750)	*12700 (28000)	7600 (16750)	*18650 (41150)	15500 (34250)	*15200 (33550)	*15200 (33550)
Arm length 3500 mm (11'6"), Shoes 800 mm (31.5")													
7.6 m (25')		*2550 (5650)	*2550 (5650)										
6.1 m (20')		*2450 (5500)	*2450 (5500)	*3600 (8000)	*3600 (8000)								
4.6 m (15')		*2550 (5600)	*2550 (5600)	*5100 (11250)	4050 (8950)	*5250 (11600)	*5250 (11600)						
3.0 m (10')		*2700 (6000)	*2700 (6000)	*5800 (12850)	3850 (8550)	*6500 (14400)	5650 (12550)	*8050 (17750)	*8050 (17750)	*11900 (26250)	*11900 (26250)		
1.5 m (5')		*3000 (6650)	2700 (5950)	5800 (12800)	3700 (8150)	*7950 (17500)	5300 (11700)	*10650 (23450)	8200 (18050)	*11550 (25500)	*11550 (25500)		
0 m (0')		*3500 (7800)	2700 (6000)	5600 (12400)	3500 (7800)	8050 (17800)	5000 (11050)	*12700 (28100)	7750 (17150)	*10200 (22450)	*10200 (22450)	*4700 (10400)	*4700 (10400)
-1.5 m (-5')		*4400 (9750)	2900 (6450)	5500 (12200)	3400 (7550)	7850 (17400)	4850 (10650)	12900 (28400)	7500 (16600)	*12650 (27950)	*12650 (27950)	*7900 (17450)	*7900 (17450)
-3.0 m (-10')		5500 (12200)	3400 (7600)			7850 (17300)	4800 (10600)	12850 (28400)	7500 (16600)	*16700 (36850)	15300 (33700)	*11250 (24850)	*11250 (24850)
-4.6 m (-15')		7450 (16500)	4650 (10250)			8000 (17600)	4900 (10900)	*12700 (28000)	7700 (16950)	*18650 (41150)	15700 (34650)	*15200 (33550)	*15200 (33550)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC228US-3E0

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')		1.5 m (4')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2925 mm (9'7")													
6.0 m (19')		*2750 (6000)	2350 (5200)			*4300 (9500)	3700 (8200)						
4.5 m (14')		*2750 (6100)	1900 (4200)	3850 (8500)	2300 (5100)	*4900 (10800)	3550 (7800)	*5450 (12100)	*5450 (12100)				
3 m (9')		*2900 (6400)	1700 (3700)	3700 (8200)	2200 (4800)	5450 (12000)	3300 (7300)	*7450 (16400)	5300 (11700)	*11750 (26000)	10250 (22600)		
1.5 m (4')		2850 (6300)	1600 (3500)	3600 (7900)	2050 (4500)	5200 (11400)	3050 (6700)	8300 (18300)	4750 (10500)	*6800 (15000)	*6800 (15000)		
0 m (0')		2900 (6400)	1600 (3600)	3500 (7700)	1950 (4300)	4950 (10900)	2850 (6300)	7900 (17400)	4450 (9800)	*7950 (17500)	*7950 (17500)	*7100 (15700)	*7100 (15700)
-1.5 m (-4')		3200 (7000)	1850 (4050)	3450 (7600)	1950 (4300)	4850 (10700)	2750 (6100)	7750 (17100)	4300 (9500)	*11300 (24900)	8500 (18700)	*10850 (23900)	*10850 (23900)
-3.0 m (-9')		3850 (8400)	2150 (4800)			4900 (10800)	2750 (6100)	7800 (17200)	4350 (9600)	*15600 (34500)	8700 (19100)		
-4.5 m (-14')		5500 (12100)	3150 (7000)					8050 (17700)	4550 (10000)	*13200 (29100)	9050 (19900)		

PC228USLC-3E0

Conditions: Boom: 5700 mm (18'8"), Bucket (SAE): 0.80 m³ (1.05 cu.yd), Shoes: 700 mm (28") unit: kg (lb)

B	A	MAX		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')		1.5 m (4')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2925 mm (9'7")													
6.0 m (19')		*2750 (6000)	*2750 (6000)			*4300 (9500)	*4300 (9500)						
4.5 m (14')		*2750 (6100)	2350 (5100)	*4650 (10300)	2750 (6100)	*4900 (10800)	4150 (9200)	*5450 (12100)	*5450 (12100)				
3 m (9')		*2900 (6400)	2100 (4600)	4700 (10300)	2650 (5800)	*5850 (12900)	3900 (8600)	*7450 (16400)	6250 (13800)	*11750 (26000)	*11750 (26000)		
1.5 m (4')		*3200 (7100)	2000 (4400)	4550 (10000)	2500 (5600)	6550 (14500)	3650 (8100)	*9400 (20700)	5700 (12500)	*6800 (15000)	*6800 (15000)		
0 m (0')		*3700 (8200)	2000 (4400)	4450 (9800)	2400 (5300)	6350 (14000)	3450 (7600)	10250 (22600)	5350 (11800)	*7950 (17500)	*7950 (17500)		
-1.5 m (-4')		4100 (9000)	2200 (4900)	4400 (9700)	2350 (5200)	6250 (13700)	3350 (7400)	10100 (22300)	5250 (11600)	*11300 (24900)	10450 (23100)	*7100 (15700)	*7100 (15700)
-3.0 m (-9')		4900 (10800)	2650 (5900)			6250 (13800)	3350 (7400)	10150 (22400)	5300 (11700)	*15650 (34500)	10650 (23500)	*10850 (23900)	*10850 (23900)
-4.5 m (-14')		*6900 (15200)	3850 (8400)					*9150 (20200)	5500 (12100)	*13200 (29100)	11050 (24300)		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC230NHD-8

Conditions: One piece boom: 5700 mm (18'8"), Bucket (SAE): 0.96 m³ (1.26 cu.yd), Shoes: 550 mm (22")
 Lifting capacities, including bucket (760 kg), bucket linkage (200 kg) and bucket cylinder (140 kg)
 unit: kg (lb)

B	A	MAX		7.5 m (25')		6.0 m (20')		4.5 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm (9'6")													
6.0 m (20')		*2650 (5800)	*2650 (5800)	*3550 (7800)	2900 (6400)	*4300 (9400)	*4300 (9400)						
4.5 m (15')		*2650 (5800)	2250 (4900)	*4650 (10200)	2850 (6200)	*4900 (10800)	4250 (9300)	*5500 (12100)	*5500 (12100)				
3.0 m (10')		*2800 (6100)	2050 (4500)	4900 (10800)	2700 (5900)	*5850 (12800)	3950 (8700)	*7400 (16300)	6200 (13600)	*11550 (25400)	*11550 (25400)		
1.5 m (5')		*3050 (6700)	1950 (4300)	4750 (10400)	2600 (5700)	6800 (14900)	3700 (8100)	*9300 (20400)	5650 (12400)	*6400 (14100)	*6400 (14100)		
0 m (0')		*3450 (7600)	2000 (4400)	4650 (10200)	2450 (5400)	6550 (14400)	3450 (7600)	10450 (23000)	5250 (11500)	*7300 (16000)	*7300 (16000)		
-1.5 m (-5')		4100 (9000)	2150 (4700)	4600 (10100)	2400 (5300)	6450 (14200)	3350 (7300)	10250 (22500)	5150 (11300)	*10550 (23200)	9650 (21200)	*6400 (14100)	*6400 (14100)
-3.0 m (-10')		4850 (10600)	2550 (5600)			6450 (14200)	3400 (7500)	10300 (22600)	5150 (11300)	*15400 (33900)	9850 (21600)	*10150 (22300)	*10150 (22300)
-4.5 m (-15')		*6350 (13900)	3550 (7800)					9050 (19900)	5350 (11700)	*13000 (28600)	10250 (22500)		
Arm length 2400 mm (7'10")													
6.0 m (20')		*4150 (9100)	3100 (6800)			*4900 (10800)	4350 (9500)						
4.5 m (15')		*4150 (9100)	2550 (5600)	5000 (11000)	2800 (6100)	*5450 (12000)	4200 (9200)	*6300 (13800)	*6300 (13800)				
3.0 m (10')		4200 (9200)	2300 (5000)	4900 (10800)	2750 (6000)	*6350 (13900)	3950 (8700)	*8250 (18100)	6100 (13400)				
1.5 m (5')		4100 (9000)	2200 (4800)	4800 (10500)	2600 (5700)	6800 (14900)	3700 (8100)	*10000 (22000)	5600 (12300)				
0 m (0')		4200 (9200)	2250 (4900)	4700 (10300)	2550 (5600)	6600 (14500)	3550 (7800)	10500 (23100)	5300 (11600)				
-1.5 m (-5')		4600 (10100)	2500 (5500)	4650 (10200)	2500 (5500)	6550 (14500)	3450 (7600)	10400 (22900)	5250 (9300)	*11250 (24700)	9900 (21800)	*6900 (15200)	*6900 (15200)
-3.0 m (-10')		5600 (12300)	3050 (6700)			6600 (14500)	3500 (7700)	*10300 (22600)	5350 (11700)	*14700 (32300)	10150 (22300)	*12000 (26400)	*12000 (26400)
-4.5 m (-15')		*6750 (14800)	4500 (9900)					*8250 (18100)	5600 (12300)	*11700 (25700)	10600 (23300)		
Arm length 1800 mm (5'11")													
6.0 m (20')		*4600 (10100)	3550 (7800)			*5500 (12100)	4200 (9200)	*5850 (12800)	*5850 (12800)				
4.5 m (15')		*4600 (10100)	2850 (6200)			*6000 (13200)	4100 (9000)	*7150 (15700)	6450 (14200)	*10200 (22400)	*10200 (22400)		
3.0 m (10')		4650 (10200)	2550 (5600)	4850 (10600)	2650 (5800)	*6800 (14900)	3850 (8400)	*9000 (19800)	5850 (12800)				
1.5 m (5')		4500 (9900)	2450 (5400)	4750 (10400)	2600 (5700)	6700 (14700)	3650 (8000)	*10450 (23000)	5400 (11900)				
0 m (0')		4650 (10200)	2500 (5500)	4700 (10300)	2550 (5600)	6550 (14400)	3500 (7700)	10350 (22700)	5200 (11400)				
-1.5 m (-5')		5250 (11500)	2800 (6100)			6550 (14400)	3450 (7600)	10350 (22700)	5200 (11400)	*12250 (26900)	9950 (21900)		
-3.0 m (-10')		6650 (14600)	3600 (7900)			6700 (14700)	3600 (7900)	*9650 (21200)	5400 (11900)	*13200 (29000)	10250 (22500)		
-4.5 m (-15')													

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC240LC-8

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.01 m³ (1.32 cu.yd), Shoes: 700 mm (28")
 Lifting capacities, including bucket (730 kg), bucket linkage (200 kg) and bucket cylinder (140 kg) unit: kg (lb)

B	A	MAX		7.5 m (25')		6.0 m (20')		4.5 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3000 mm (9'10")													
6.0 m (20')		*3000 (6600)	*3000 (6600)	*4450 (9800)	4250 (9400)	*4900 (10800)	*4900 (10800)						
4.5 m (15')		*3050 (6700)	*3050 (6700)	*5550 (12200)	4200 (9200)	*5800 (12800)	*5800 (12800)						
3.0 m (10')		*3200 (7100)	2950 (6500)	*6250 (13700)	4050 (8900)	*7150 (15700)	5900 (13000)	*9050 (20000)	*9050 (20000)	*14450 (31800)	*14450 (31800)		
1.5 m (5')		*3550 (7800)	2850 (6200)	6050 (13300)	3850 (8500)	*8550 (18800)	5550 (12200)	*11700 (25800)	8650 (19000)	*6900 (15200)	*6900 (15200)		
0 m (0')		*4050 (8900)	2900 (6400)	5900 (13000)	3700 (8200)	8450 (18600)	5250 (11600)	*13500 (29700)	8150 (18000)	*8100 (17900)	*8100 (17900)		
-1.5 m (-5')		*4950 (10900)	3100 (6900)	5800 (12800)	3650 (8000)	8300 (18300)	5150 (11300)	13550 (29900)	8000 (17600)	*11650 (25700)	*11650 (25700)	*7350 (16200)	*7350 (16200)
-3.0 m (-10')		5850 (12900)	3700 (8100)			8250 (18200)	5100 (11300)	13600 (30000)	8000 (17700)	*16750 (37000)	16350 (36100)	*11350 (25100)	*11350 (25100)
-4.5 m (-15')		7950 (17600)	5000 (11000)			8450 (18600)	5300 (11500)	*12650 (27900)	8200 (18100)	*18350 (40500)	16850 (37100)		
Arm length 3500 mm (11'6")													
6.0 m (20')		*2350 (5200)	*2350 (5200)	*4050 (9000)	*4050 (9000)								
4.5 m (15')		*2400 (5300)	*2400 (5300)	*5050 (11200)	4200 (9300)	*5200 (11500)	*5200 (11500)						
3.0 m (10')		*2550 (5600)	*2550 (5600)	*5800 (12800)	4050 (8900)	*6550 (14400)	5950 (13100)	*8050 (17800)	*8050 (17800)	*11850 (26100)	*11850 (26100)		
1.5 m (5')		*2850 (6200)	2650 (5800)	6050 (13300)	3850 (8500)	*8000 (17600)	5550 (12200)	*10850 (24000)	8750 (19300)	*10850 (23900)	*10850 (23900)		
0 m (0')		*3300 (7300)	2650 (5900)	5850 (12900)	3700 (8100)	8400 (18600)	5250 (11600)	*12900 (28500)	8150 (18000)	*9500 (20900)	*9500 (20900)	*4300 (9400)	*4300 (9400)
-1.5 m (-5')		*4050 (8900)	2850 (6300)	5750 (12600)	3600 (7900)	8150 (18000)	5000 (11000)	13500 (29700)	7900 (17400)	*11850 (26100)	*11850 (26100)	*7350 (16200)	*7350 (16200)
-3.0 m (-10')		5350 (11800)	3350 (7400)	5700 (12600)	3550 (7900)	8150 (18000)	5000 (11100)	13450 (29700)	7850 (17400)	*15650 (34500)	*15650 (34500)	*10600 (23300)	*10600 (23300)
-4.5 m (-15')		7050 (15500)	4400 (9700)			8250 (18200)	5100 (11300)	*13100 (28900)	8000 (17700)	*19350 (42600)	16500 (36300)	*14400 (31800)	*14400 (31800)
Arm length 2500 mm (8'2")													
6.0 m (20')		*4750 (10500)	4400 (9700)			*5650 (12500)	*5650 (12500)						
4.5 m (15')		*4850 (10700)	3650 (8100)	*6100 (13500)	4150 (9100)	*6500 (14300)	6100 (13500)	*7500 (16500)	*7500 (16500)				
3.0 m (10')		5150 (11400)	3300 (7300)	6200 (13600)	4000 (8800)	*7750 (17100)	5800 (12800)	*10150 (22300)	9100 (20100)				
1.5 m (5')		5000 (11000)	3200 (7000)	6000 (13300)	3850 (8500)	8650 (19100)	5450 (12100)	*12550 (27700)	8450 (18600)				
0 m (0')		5150 (11300)	3250 (7200)	5900 (13000)	3750 (8200)	8400 (18500)	5250 (11600)	13700 (30200)	8100 (17800)				
-1.5 m (-5')		5650 (12500)	3550 (7900)	5850 (12900)	3700 (8100)	8300 (18300)	5150 (11400)	13600 (29900)	8000 (17600)	*13000 (28700)	*13000 (28700)	*8550 (18800)	*8550 (18800)
-3.0 m (-10')		6850 (15200)	4350 (9600)			8350 (18400)	5200 (11500)	*13700 (30200)	8100 (17900)	*19850 (43800)	16550 (36500)	*13900 (30700)	*13900 (30700)
-4.5 m (-15')		*9550 (21000)	6400 (14100)					*11700 (25800)	8400 (18500)	*16750 (36900)	*16750 (36900)		
Arm length 2000 mm (6'7")													
6.0 m (20')		*4850 (10700)	4800 (10600)			*6300 (13900)	6200 (13600)						
4.5 m (15')		*4950 (10900)	3950 (8700)	*5600 (12400)	4050 (8900)	*7100 (15600)	6000 (13200)	*8400 (18600)	*8400 (18600)	*12000 (26500)	*12000 (26500)		
3.0 m (10')		*5250 (11600)	3550 (7800)	6100 (13500)	3950 (8700)	*8250 (18200)	5700 (12500)	*11050 (24300)	8850 (19600)				
1.5 m (5')		5350 (11800)	3400 (7500)	5950 (13200)	3800 (8400)	8550 (18900)	5400 (11900)	*13200 (29100)	8250 (18200)				
0 m (0')		5550 (12200)	3500 (7700)	5900 (13000)	3700 (8200)	8350 (18400)	5200 (11500)	13600 (30000)	8000 (17700)				
-1.5 m (-5')		6200 (13600)	3900 (8600)			8300 (18300)	5150 (11400)	13600 (30000)	8000 (17700)	*13550 (29900)	*13550 (29900)		
-3.0 m (-10')		7800 (17200)	4900 (10800)			8450 (18600)	5250 (11600)	*13200 (29100)	8150 (18000)	*18650 (41100)	16750 (36900)		
-4.5 m (-15')		*9750 (21500)	7850 (17300)					*10450 (23100)	8550 (18900)				

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC240NLC-8

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.01 m³ (1.32 cu.yd), Shoes: 700 mm (28")
 Lifting capacities, including bucket (730 kg), bucket linkage (200 kg) and bucket cylinder (140 kg) unit: kg (lb)

B	A	MAX		7.5 m (25')		6.0 m (20')		4.5 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3000 mm (9'10")													
6.0 m (20')	*3000 (6600)	*3000 (6600)	*4450 (9800)	3750 (8300)	*4900 (10800)	*4900 (10800)							
4.5 m (15')	*3050 (6700)	2800 (6200)	*5550 (12200)	3700 (8100)	*5800 (12800)	5500 (12100)							
3.0 m (10')	*3200 (7100)	2550 (5600)	5600 (12300)	3550 (7800)	*7150 (15700)	5150 (11400)	*9050 (20000)	8200 (18100)	*14450 (31800)	*14450 (31800)			
1.5 m (5')	*3550 (7800)	2450 (5400)	5400 (11900)	3350 (7400)	7800 (17200)	4850 (10700)	*11700 (25800)	7500 (16500)	*6900 (15200)	*6900 (15200)			
0 m (0')	*4050 (8900)	2450 (5500)	5250 (11600)	3200 (7100)	7500 (16500)	4550 (10100)	12150 (26800)	7050 (15600)	*8100 (17900)	*8100 (17900)			
-1.5 m (-5')	4400 (9700)	2700 (5900)	5150 (11400)	3150 (6900)	7350 (16200)	4450 (9800)	11950 (26300)	6900 (15200)	*11650 (25700)	*11650 (25700)	*7350 (16200)	*7350 (16200)	
-3.0 m (-10')	5200 (11500)	3200 (7000)			7350 (16200)	4450 (9800)	11950 (26400)	6900 (15200)	*16750 (37000)	13800 (30500)	*11350 (25100)	*11350 (25100)	
-4.5 m (-15')	7100 (15600)	4350 (9600)			7500 (16600)	4600 (10100)	12200 (25900)	7100 (15700)	*18350 (40500)	14250 (31400)			
Arm length 3500 mm (11'6")													
6.0 m (20')	*2350 (5200)	*2350 (5200)	*4050 (9000)	3800 (8400)									
4.5 m (15')	*2400 (5300)	*2400 (5300)	*5050 (11200)	3700 (8200)	*5200 (11500)	*5200 (11500)							
3.0 m (10')	*2550 (5600)	2350 (5200)	5600 (12300)	3550 (7800)	*6550 (14400)	5200 (11500)	*8050 (17800)	*8050 (17800)	*11850 (26100)	*11850 (26100)			
1.5 m (5')	*2850 (6200)	2250 (5000)	5400 (11900)	3350 (7400)	7850 (17300)	4850 (10700)	*10850 (24000)	7600 (16800)	*10850 (23900)	*10850 (23900)			
0 m (0')	*3300 (7300)	2300 (5000)	5200 (11500)	3150 (7000)	7500 (16500)	4550 (10000)	12150 (26800)	7050 (15500)	*9500 (20900)	*9500 (20900)	*4300 (9400)	*4300 (9400)	
-1.5 m (-5')	*4050 (8900)	2450 (5400)	5100 (11200)	3050 (6800)	7200 (15900)	4300 (9500)	11850 (26100)	6800 (15000)	*11850 (26100)	*11850 (26100)	*7350 (16200)	*7350 (16200)	
-3.0 m (-10')	4750 (10500)	2850 (6300)	5100 (11200)	3050 (6700)	7250 (15900)	4300 (9500)	11850 (26100)	6750 (14900)	*15650 (34500)	13550 (29900)	*10600 (23300)	*10600 (23300)	
-4.5 m (-15')	6250 (13800)	3800 (8400)			7350 (16200)	4400 (9700)	12000 (26400)	6900 (15200)	*19350 (42600)	13900 (30700)	*14400 (31800)	*14400 (31800)	
Arm length 2500 mm (8'2")													
6.0 m (20')	*4750 (10500)	3850 (8500)			*5650 (12500)	5600 (12300)							
4.5 m (15')	*4850 (10700)	3200 (7100)	5700 (12500)	3800 (8400)	*6500 (14300)	5400 (11900)	*7500 (16500)	*7500 (16500)					
3.0 m (10')	4600 (10200)	2850 (6300)	5550 (12200)	3500 (7700)	*7750 (17100)	5050 (11200)	*10150 (22300)	8000 (17600)					
1.5 m (5')	4450 (9800)	2750 (6100)	5350 (11800)	3350 (7400)	7700 (17000)	4750 (10500)	12450 (27500)	7300 (16200)					
0 m (0')	4550 (10100)	2800 (6200)	5250 (11600)	3200 (7100)	7450 (16500)	4550 (10000)	12050 (26600)	7000 (15400)					
-1.5 m (-5')	5050 (11100)	3100 (6800)	5200 (11500)	3200 (7000)	7350 (16200)	4450 (9800)	11950 (26300)	6900 (15200)	*13000 (28700)	*13000 (28700)	*8550 (18800)	*8550 (18800)	
-3.0 m (-10')	6100 (13500)	3750 (8300)			7400 (16400)	4500 (9900)	12050 (26600)	7000 (15400)	*19850 (43800)	14000 (30900)	*13900 (30700)	*13900 (30700)	
-4.5 m (-15')	9150 (20100)	5550 (12200)					*11700 (25800)	7250 (16000)	*16750 (36900)	14500 (32000)			
Arm length 2000 mm (6'7")													
6.0 m (20')	*4850 (10700)	4250 (9300)			*6300 (13900)	5450 (12100)							
4.5 m (15')	*4950 (10900)	3450 (7600)	5600 (12400)	3550 (7800)	*7100 (15600)	5300 (11600)	*8400 (18600)	*8400 (18600)	*12000 (26500)	*12000 (26500)			
3.0 m (10')	4950 (10900)	3100 (6800)	5450 (12100)	3450 (7600)	7950 (17500)	5000 (11000)	*11050 (24300)	7750 (17100)					
1.5 m (5')	4800 (10500)	2950 (6500)	5350 (11800)	3300 (7300)	7650 (16800)	4700 (10400)	12250 (27000)	7150 (15800)					
0 m (0')	4950 (10900)	3050 (6700)	5250 (11600)	3200 (7100)	7450 (16400)	4500 (10000)	11950 (26400)	6900 (15200)					
-1.5 m (-5')	5500 (12200)	3400 (7500)			7400 (16300)	4450 (9900)	11950 (26300)	6900 (15200)	*13550 (29900)	*13550 (29900)			
-3.0 m (-10')	6950 (15300)	4250 (9400)			7500 (16500)	4550 (10100)	12150 (26800)	7050 (15600)	*18650 (41100)	14150 (31200)			
-4.5 m (-15')	*9750 (21500)	6850 (15100)					*10450 (23100)	7450 (16400)					

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC270-8

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.26 m³ (1.65 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2500 mm (8'2")													
	7.6 m (25')	*5550 (12200)	*5550 (12200)										
	6.1 m (20')	*5350 (11800)	*4850 (10700)			*7150 (15700)	6500 (14400)						
	4.6 m (15')	*5400 (12000)	4000 (8800)	6300 (13800)	4250 (9400)	*7900 (17400)	6300 (13900)	*9300 (20500)	*9300 (20500)				
	3.0 m (10')	5350 (11800)	3550 (7900)	6150 (13500)	4100 (9100)	8850 (19500)	5950 (13100)	*11900 (26300)	9300 (20500)				
	1.5 m (5')	5200 (11400)	3450 (7600)	5950 (13200)	3950 (8700)	8500 (18700)	5600 (12400)	13550 (29800)	8650 (19000)				
	0 m (0')	5350 (11800)	3500 (7700)	5850 (12900)	3850 (8500)	8250 (18200)	5400 (11900)	13150 (28900)	8300 (18300)				
	-1.5 m (-5')	5900 (13000)	3900 (8600)			8150 (18000)	5300 (11700)	13050 (28800)	8200 (18100)	*15700 (34600)	*15700 (34600)		
	-3.0 m (-10')	7250 (16000)	4800 (10500)			8250 (18200)	5400 (11900)	13150 (29000)	8350 (18400)	*19100 (42200)	*17800 (39300)		
	-4.6 m (-15')	*9000 (19800)	7600 (16800)					*10000 (22000)	8650 (19100)				
Arm length 3045 mm (10'0")													
	7.6 m (25')	*3450 (7600)	*3450 (7600)										
	6.1 m (20')	*3300 (7300)	*3300 (7300)	*4200 (9200)	*4200 (9200)	*6350 (14000)	*6350 (14000)						
	4.6 m (15')	*3350 (7300)	*3350 (7300)	*6250 (13800)	4300 (9500)	*7200 (15900)	6400 (14100)						
	3.0 m (10')	*3550 (7800)	3150 (6900)	6150 (13600)	4150 (9100)	*8500 (18700)	6050 (13300)	*10900 (24000)	9550 (21100)	*17850 (39300)	*17850 (39300)		
	1.5 m (5')	*3900 (8600)	3050 (6700)	6000 (13200)	3950 (8800)	8550 (18900)	5700 (12500)	*13250 (29300)	8850 (19500)	*7800 (17200)	*7800 (17200)		
	0 m (0')	*4500 (9900)	3100 (6800)	5850 (12900)	3850 (8400)	8300 (18300)	5400 (12000)	13250 (29200)	8350 (18500)	*9600 (21200)	*9600 (21200)		
	-1.5 m (-5')	5150 (11400)	3350 (7400)	5750 (12700)	3750 (8300)	8150 (17900)	5300 (11700)	13050 (28700)	8200 (18100)	*13950 (30700)	*13950 (30700)	*8850 (19500)	*8850 (19500)
	-3.0 m (-10')	6100 (13500)	4000 (8800)			8150 (18000)	5300 (11700)	13100 (28800)	8250 (18200)	*20100 (44300)	17600 (38800)	*13650 (30100)	*13650 (30100)
	-4.6 m (-15')	*8450 (18600)	5750 (12600)					*11600 (25600)	8500 (18700)	*16650 (36700)	*16650 (36700)		
Arm length 3500 mm (11'6")													
	7.6 m (25')	*2900 (6400)	*2900 (6400)										
	6.1 m (20')	*2800 (6100)	*2800 (6100)	*4450 (9800)	4450 (9800)								
	4.6 m (15')	*2800 (6200)	*2800 (6200)	*5800 (12800)	4350 (9600)	*6600 (14500)	6450 (14300)						
	3.0 m (10')	*3000 (6600)	2900 (6400)	6150 (13600)	4150 (9100)	*7950 (17500)	6050 (13400)	*9950 (22000)	9700 (21400)	*15500 (34200)	*15500 (34200)		
	1.5 m (5')	*3300 (7200)	2750 (6100)	5950 (13100)	3950 (8700)	8550 (18900)	5700 (12500)	*12400 (27300)	8700 (19200)	*11050 (24300)	*11050 (24300)		
	0 m (0')	*3750 (8300)	2800 (6200)	5800 (12700)	3750 (8300)	8250 (18200)	5350 (11800)	13200 (29100)	8350 (18400)	*10450 (23000)	*10450 (23000)		
	-1.5 m (-5')	*4600 (10100)	3050 (6700)	5650 (12500)	3650 (8100)	8050 (17700)	5200 (11500)	12900 (28500)	8100 (17800)	*13600 (29900)	*13600 (29900)	*8300 (18300)	*8300 (18300)
	-3.0 m (-10')	5500 (12100)	3550 (7900)	5700 (12500)	3700 (8100)	8000 (17700)	5150 (11400)	12900 (28400)	8050 (17800)	*18500 (40800)	17250 (38100)	*12400 (27300)	*12400 (27300)
	-4.6 m (-15')	7450 (16500)	4850 (10800)			*8150 (18000)	5300 (11700)	*12350 (27300)	8250 (18200)	*18100 (39900)	17750 (39200)		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. 1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC270LC-8

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.26 m³ (1.65 cu.yd), Shoes: 700 mm (24")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3045 mm (10'0")													
7.6 m (25')		*3450 (7600)	*3450 (7600)										
6.1 m (20')		*3300 (7300)	*3300 (7300)	*4100 (9100)	*4100 (9100)	*6350 (14000)	*6350 (14000)						
4.6 m (15')		*3350 (7300)	*3350 (7300)	*6250 (13800)	4550 (10000)	*7200 (15900)	6750 (14900)						
3.0 m (10')		*3500 (7800)	3350 (7400)	*7250 (16000)	4400 (9700)	*8450 (18700)	6400 (14100)	*10850 (24000)	10200 (22500)	*13500 (29800)	*13500 (29800)		
1.5 m (5')		*3900 (8600)	3250 (7100)	7100 (15700)	4200 (9300)	*9750 (21500)	6050 (13300)	*13350 (29400)	9400 (20800)	*8350 (18400)	*8350 (18400)		
0 m (0')		*4500 (9900)	3300 (7300)	6950 (15300)	4050 (9000)	9950 (21900)	5750 (12700)	*12500 (27500)	8950 (19700)	*9950 (21900)	*9950 (21900)		
-1.5 m (-5')		*5550 (12200)	3600 (8000)	6900 (15200)	4000 (8800)	9800 (21600)	5600 (12400)	*12150 (26800)	8750 (19300)	*10600 (23400)	*10600 (23400)	*8950 (19700)	*8950 (19700)
-3.0 m (-10')		7400 (16300)	4300 (9500)			9800 (21600)	5650 (12400)	*12850 (28400)	8800 (19400)	*10700 (23600)	*10700 (23600)	*11050 (24400)	*11050 (24400)
-4.6 m (-15')		*8450 (18600)	6050 (13300)					*11750 (25900)	9050 (20000)	*11500 (25300)	*11500 (25300)		
Arm length 3500 mm (11'6")													
7.6 m (25')		*2900 (6400)	*2900 (6400)										
6.1 m (20')		*2800 (6100)	*2800 (6100)	*4400 (9700)	*4400 (9700)								
4.6 m (15')		*2800 (6200)	*2800 (6200)	*5800 (12800)	4550 (10100)	*6600 (14600)	*6600 (14600)						
3.0 m (10')		*2950 (6600)	*2950 (6600)	*6850 (15100)	4400 (9700)	*7900 (17400)	6400 (14200)	*9950 (21900)	*9950 (21900)	*13800 (30500)	*13800 (30500)		
1.5 m (5')		*3250 (7200)	2950 (6600)	7100 (15600)	4200 (9200)	*9250 (20400)	6000 (13300)	*12550 (27700)	9500 (20900)	*9700 (21400)	*9700 (21400)		
0 m (0')		*3750 (8300)	3000 (6700)	6900 (15200)	4000 (8800)	9900 (21900)	5700 (12600)	*11100 (24400)	8900 (19600)	*9550 (21100)	*9550 (21100)		
-1.5 m (-5')		*4600 (10200)	3250 (7200)	6800 (15000)	3900 (8600)	9700 (21400)	5550 (12200)	*10600 (23400)	8650 (19100)	*9550 (21100)	*9550 (21100)	*8400 (18600)	*8400 (18600)
-3.0 m (-10')		*6250 (13800)	3850 (8500)	6800 (15000)	3900 (8600)	9650 (21300)	5500 (12100)	*10850 (24000)	8650 (19000)	*9550 (21100)	*9550 (21100)	*10050 (22100)	*10050 (22100)
-4.6 m (-15')		*8150 (18000)	5150 (11300)			*9000 (19800)	5650 (12400)	*12000 (26500)	8850 (19500)	*9900 (21800)	*9900 (21800)		
Arm length 2500 mm (8'2")													
7.6 m (25')		*5550 (12300)	*5550 (12300)										
6.1 m (20')		*5350 (11800)	5100 (11300)			*7150 (15700)	6850 (15100)						
4.6 m (15')		*5450 (12000)	4250 (9300)	*6800 (14900)	4500 (9900)	*7900 (17400)	6650 (14600)	*9400 (20700)	*9400 (20700)				
3.0 m (10')		*5800 (12800)	3800 (8400)	7250 (16000)	4350 (9600)	*9050 (20000)	6300 (13900)	*11900 (26300)	9900 (21900)				
1.5 m (5')		6200 (13700)	3650 (8100)	7100 (15600)	4200 (9200)	10200 (22400)	5950 (13100)	*11750 (25900)	9200 (20300)				
0 m (0')		6400 (14100)	3750 (8300)	6950 (15400)	4100 (9000)	9900 (21900)	5750 (12600)	*10800 (23800)	8850 (19500)	*9300 (20500)	*9300 (20500)		
-1.5 m (-5')		7100 (15600)	4150 (9100)			9850 (21700)	5650 (12500)	*10850 (23900)	8800 (19400)	*10450 (23000)	*10450 (23000)		
-3.0 m (-10')		8800 (19400)	5100 (11300)			*9900 (21800)	5750 (12600)	*11750 (25900)	8900 (19600)	*10100 (22300)	*10100 (22300)		
-4.6 m (-15')		*9000 (19900)	7950 (17500)					*10200 (22500)	9250 (20400)				

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC270LC-8 (USA source)

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.26 m³ (1.65 cu.yd), Shoes: 700 mm (24")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3045 mm (10'0")													
7.6 m (25')		*3450 (7650)	*3450 (7650)										
6.1 m (20')		*3300 (7300)	*3300 (7300)	*4100 (9100)	*4100 (9100)	*6350 (14050)	*6350 (14050)						
4.6 m (15')		*3350 (7350)	*3350 (7350)	*6250 (13800)	4500 (9950)	*7200 (15950)	6700 (14800)						
3.0 m (10')		*3500 (7800)	3350 (7400)	7250 (16000)	4350 (9600)	*8450 (18700)	6350 (14000)	*10850 (24000)	10150 (22350)	*17200 (38000)	*17200 (38000)		
1.5 m (5')		*3900 (8600)	3200 (7100)	7050 (15550)	4150 (9250)	*9750 (21500)	6000 (13200)	*13350 (29400)	9350 (20650)	*8350 (18450)	*8350 (18450)		
0 m (0')		*4500 (9900)	3300 (7250)	6900 (15250)	4050 (8900)	9850 (21800)	5700 (12650)	*14750 (32550)	8900 (19600)	*9950 (21900)	*9950 (21900)		
-1.5 m (-5')		*5550 (12250)	3550 (7900)	6800 (15050)	3950 (8750)	9700 (21450)	5600 (12350)	*15000 (33100)	8700 (19250)	*14300 (31600)	*14300 (31600)	*8950 (19750)	*8950 (19750)
-3.0 m (-10')		7350 (16200)	4250 (9450)			9750 (21500)	5600 (12350)	*14150 (31200)	8750 (19350)	*20400 (45000)	17900 (39500)	*13850 (30550)	*13850 (30550)
-4.6 m (-15')		*8450 (18600)	6000 (13200)					*11750 (25900)	9000 (19900)	*16550 (36500)	*16550 (36500)		
Arm length 3500 mm (11'6")													
7.6 m (25')		*2900 (6450)	*2900 (6450)										
6.1 m (20')		*2800 (6150)	*2800 (6150)	*4400 (9750)	*4400 (9750)								
4.6 m (15')		*2800 (6250)	*2800 (6250)	*5800 (12850)	4550 (10000)	*6600 (14600)	*6600 (14600)						
3.0 m (10')		*3000 (6600)	*3000 (6600)	*6850 (15100)	4350 (9600)	*7900 (17450)	6400 (14100)	*9950 (21950)	*9950 (21950)	*14850 (32750)	*14850 (32750)		
1.5 m (5')		*3250 (7250)	2950 (6550)	7050 (15550)	4150 (9150)	*9250 (20450)	6000 (13200)	*12450 (27450)	9250 (20400)	*11800 (26000)	*11800 (26000)		
0 m (0')		*3750 (8350)	3000 (6550)	6850 (15100)	3950 (8800)	9850 (21700)	5650 (12500)	*14300 (31600)	8850 (19500)	*10800 (23850)	*10800 (23850)		
-1.5 m (-5')		*4600 (10200)	3250 (7150)	6750 (14850)	3900 (8600)	9600 (21250)	5500 (12150)	*14900 (32850)	8600 (18950)	*13950 (30750)	*13950 (30750)	*8400 (18600)	*8400 (18600)
-3.0 m (-10')		6250 (13800)	3800 (8400)	6750 (14900)	3900 (8600)	9600 (21150)	5450 (12050)	*14350 (31700)	8550 (18950)	*19050 (42000)	17550 (38750)	*12600 (27750)	*12600 (27750)
-4.6 m (-15')		*8150 (18000)	5100 (11300)			*9000 (19800)	5600 (12350)	*12500 (27600)	8750 (19350)	*17950 (39550)	*17950 (39550)		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. 1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC270LC-8 (USA source)

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.26 m³ (1.65 cu.yd), Shoes: 800 mm (31.5")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3045 mm (10'0")													
7.6 m (25')		*3450 (7650)	*3450 (7650)										
6.1 m (20')		*3300 (7300)	*3300 (7300)	*4100 (9100)	*4100 (9100)	*6350 (14050)	*6350 (14050)						
4.6 m (15')		*3350 (7350)	*3350 (7350)	*6250 (13800)	4600 (10200)	*7200 (15950)	6800 (15050)						
3.0 m (10')		*3500 (7800)	3400 (7550)	*7250 (16000)	4450 (9850)	*8450 (18700)	6450 (14300)	*10850 (24000)	10300 (22750)	*17200 (38000)	*17200 (38000)		
1.5 m (5')		*3900 (8600)	3300 (7300)	7200 (15950)	4250 (9450)	*9750 (21500)	6100 (13500)	*13350 (29400)	9550 (21050)	*8350 (18450)	*8350 (18450)		
0 m (0')		*4500 (9900)	3350 (7450)	7050 (15600)	4150 (9150)	10100 (22300)	5850 (12900)	*14750 (32550)	9050 (20000)	*9950 (21900)	*9950 (21900)		
-1.5 m (-5')		*5550 (12250)	3650 (8100)	7000 (15400)	4050 (9000)	9950 (21950)	5700 (12600)	*15000 (33100)	8900 (19650)	*14300 (31600)	*14300 (31600)	*8950 (19750)	*8950 (19750)
-3.0 m (-10')		7500 (16550)	4350 (9650)			9950 (21950)	5700 (12650)	*14150 (31200)	8950 (19750)	*20400 (45000)	18250 (40300)	*13850 (30550)	*13850 (30550)
-4.6 m (-15')		*8450 (18600)	6100 (13500)					*11750 (25900)	9200 (20300)	*16550 (36500)	*16550 (36500)		
Arm length 3500 mm (11'6")													
7.6 m (25')		*2900 (6450)	*2900 (6450)										
6.1 m (20')		*2800 (6150)	*2800 (6150)	*4400 (9750)	*4400 (9750)								
4.6 m (15')		*2800 (6250)	*2800 (6250)	*5800 (12850)	4650 (10250)	*6600 (14600)	*6600 (14600)						
3.0 m (10')		*3000 (6600)	*3000 (6600)	*6850 (15100)	4450 (9850)	*7900 (17450)	6500 (14350)	*9950 (21950)	*9950 (21950)	*14850 (32750)	*14850 (32750)		
1.5 m (5')		*3250 (7250)	3050 (6700)	7200 (15900)	4250 (9400)	*9250 (20450)	6100 (13500)	*12450 (27450)	9450 (20800)	*11800 (26000)	*11800 (26000)		
0 m (0')		*3750 (8350)	3050 (6800)	7000 (15450)	4050 (9000)	10050 (22200)	5800 (12800)	*14300 (31600)	9050 (19950)	*10800 (23850)	*10800 (23850)		
-1.5 m (-5')		*4600 (10200)	3300 (7350)	6900 (15250)	3950 (8800)	9850 (21750)	5600 (12400)	*14900 (32850)	8800 (19400)	*13950 (30750)	*13950 (30750)	*8400 (18600)	*8400 (18600)
-3.0 m (-10')		6250 (13800)	3900 (8600)	6900 (15250)	4000 (8800)	9800 (21650)	5600 (12350)	*14350 (31700)	8750 (19350)	*19050 (42000)	17900 (39550)	*12600 (27750)	*12600 (27750)
-4.6 m (-15')		*8150 (18000)	5200 (11550)			*9000 (19800)	5750 (12650)	*12500 (27600)	8950 (19750)	*17950 (39550)	*17950 (39550)		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. 1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC270LC-8 (USA source)

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.26 m³ (1.65 cu.yd), Shoes: 850 mm (33.5")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3045 mm (10'0")													
7.6 m (25')		*3450 (7650)	*3450 (7650)										
6.1 m (20')		*3300 (7300)	*3300 (7300)	*4100 (9100)	*4100 (9100)	*6350 (14050)	*6350 (14050)						
4.6 m (15')		*3350 (7350)	*3350 (7350)	*6250 (13800)	4700 (10350)	*7200 (15950)	6900 (15300)						
3.0 m (10')		*3500 (7800)	3500 (7700)	*7250 (16000)	4500 (10000)	*8450 (18700)	6550 (14500)	*10850 (24000)	10450 (23100)	*17200 (38000)	*17200 (38000)		
1.5 m (5')		*3900 (8600)	3350 (7400)	7350 (16200)	4350 (9600)	*9750 (21500)	6200 (13750)	*13350 (29400)	9700 (21400)	*8350 (18450)	*8350 (18450)		
0 m (0')		*4500 (9900)	3400 (7600)	7200 (15850)	4200 (9300)	10250 (22650)	5950 (13150)	*14750 (32550)	9200 (20350)	*9950 (21900)	*9950 (21900)		
-1.5 m (-5')		*5550 (12250)	3750 (8250)	7100 (15700)	4150 (9150)	10100 (22350)	5800 (12850)	*15000 (33100)	9050 (19950)	*14300 (31600)	*14300 (31600)	*8950 (19750)	*8950 (19750)
-3.0 m (-10')		7650 (16850)	4450 (9850)			10150 (22350)	5800 (12850)	*14150 (31200)	9100 (20050)	*20400 (45000)	18550 (40900)	*13850 (30550)	*13850 (30550)
-4.6 m (-15')		*8450 (18600)	6200 (13750)					*11750 (25900)	9350 (20650)	*16550 (36500)	*16550 (36500)		
Arm length 3500 mm (11'6")													
7.6 m (25')		*2900 (6450)	*2900 (6450)										
6.1 m (20')		*2800 (6150)	*2800 (6150)	*4400 (9750)	*4400 (9750)								
4.6 m (15')		*2800 (6250)	*2800 (6250)	*5800 (12850)	4700 (10400)	*6600 (14600)	*6600 (14600)						
3.0 m (10')		*3000 (6600)	*3000 (6600)	*6850 (15100)	4500 (10000)	*7900 (17450)	6400 (14100)	*9950 (21950)	*9950 (21950)	*14850 (32750)	*14850 (32750)		
1.5 m (5')		*3250 (7250)	3100 (6850)	7300 (16150)	4300 (9550)	*9250 (20450)	6200 (13700)	*12450 (27450)	9600 (21150)	*11800 (26000)	*11800 (26000)		
0 m (0')		*3750 (8350)	3150 (6950)	7150 (15750)	4150 (9150)	10200 (22550)	5900 (13000)	*14300 (31600)	9200 (20250)	*10800 (23850)	*10800 (23850)		
-1.5 m (-5')		*4600 (10200)	3400 (7500)	7000 (15500)	4050 (8950)	10000 (22100)	5700 (12650)	*14900 (32850)	8900 (19700)	*13950 (30750)	*13950 (30750)	*8400 (18600)	*8400 (18600)
-3.0 m (-10')		6250 (13800)	3950 (8800)	7050 (15550)	4050 (9000)	10000 (22050)	5700 (12550)	*14350 (31700)	8900 (19700)	*19050 (42000)	18200 (40150)	*12600 (27750)	*12600 (27750)
-4.6 m (-15')		*8150 (18000)	5300 (11750)			*9000 (19800)	5850 (12850)	*12500 (27600)	9100 (20100)	*17950 (39550)	*17950 (39550)		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. 1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC290LC-8

Conditions: One-piece Boom: 5850 mm, Bucket (SAE): 1.16 m³, Shoes: 700 mm

Lifting capacities, including bucket (848 kg), bucket linkage (200 kg) and bucket cylinder (140 kg) unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3000 mm													
	6.0 m	*3300	*3300	*4700	*4700	*6400	*6400						
	4.5 m	*3350	*3350	*6600	4900	*7300	7200						
	3.0 m	*3550	*3550	*7350	4700	*8600	6800	*11150	10850	*17850	*17850		
	1.5 m	*3900	3400	7550	4550	*9900	6450	*13600	10050	*7800	*7800		
	0 m	*4500	3500	7400	4400	10600	6200	*15050	9600	*9600	*9600		
	-1.5 m	*5500	3800	7300	4300	10400	6000	*15250	9400	*13950	*13950	*8850	*8850
	-3.0 m	*7550	4500			10450	6050	*14400	9450	*20100	19400	*13650	*13650
	-4.5 m	*8450	6150			*8550	6250	*12100	9700	*17000	*17000		
Arm length 3500 mm													
	6.0 m	*2550	*2550	*4200	*4200								
	4.5 m	*2650	*2650	*5700	4900	*6700	*6700						
	3.0 m	*2850	*2850	*6950	4700	*8050	6850	*10200	*10200	*15500	*15500		
	1.5 m	*3150	*3150	7550	4500	*9450	6450	*12850	10150	*12500	*12500		
	0 m	*3750	3300	7350	4350	*10500	6150	*14600	9550	*11500	*11500	*5500	*5500
	-1.5 m	*4700	3550	7250	4250	10350	5950	*15200	9300	*14400	*14400	*9100	*9100
	-3.0 m	*6550	4150	7250	4250	10300	5950	*14650	9300	*18950	*18950	*12900	*12900
	-4.5 m	*8550	5550			*9300	6050	*12850	9500	*18400	*18400		
Arm length 2500 mm													
	6.0 m	*5350	5250			*7200	*7200						
	4.5 m	*5450	4400	*7250	4800	*8050	7050	*9600	*9600				
	3.0 m	*5800	4000	7700	4650	*9250	6700	*12200	10550				
	1.5 m	6450	3850	7550	4500	*10400	6400	*14350	9850				
	0 m	6650	3950	7400	4400	10550	6150	*15300	9500				
	-1.5 m	7350	4350	7400	4350	10450	6050	*15100	9400	*15700	*15700		
	-3.0 m	*8850	5300			*10150	6150	*13750	9550	*19100	*19100		
	-4.5 m	*9000	8050					*10500	9750				
Arm length 2000 mm													
	6.0 m	*5400	*5400			*7800	7200						
	4.5 m	*5500	4750			*8550	6950	*10500	*10500	*15300	*15300		
	3.0 m	*5850	4250	7650	4600	*9700	6650	*13000	10300				
	1.5 m	*6550	4100	7500	4500	*10700	6300	*14850	9700				
	0 m	7150	4250	7400	4400	10500	6100	*15350	9450				
	-1.5 m	8000	4750			10500	6100	*14750	9450	*16350	*16350		
	-3.0 m	*9100	6000			*9500	6250	*13000	9650	*17400	*17400		
	-4.5 m												

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC290NLC-8

Conditions: One-piece Boom: 5850 mm, Bucket (SAE): 1.16 m³, Shoes: 600 mm

Lifting capacities, including bucket (848 kg), bucket linkage (200 kg) and bucket cylinder (140 kg) unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3000 mm													
	6.0 m	*3300	*3300	*4700	4500	*6400	*6400						
	4.5 m	*3350	*3350	*6600	4450	*7300	6550						
	3.0 m	*3550	3200	*7350	4250	*8600	6200	*11150	9800	*17850	*17850		
	1.5 m	*3900	3050	7550	4100	*9900	5850	*13600	9000	*7800	*7800		
	0 m	*4500	3100	7350	3950	10550	5550	*15050	8550	*9600	*9600		
	-1.5 m	*5500	3400	7300	3850	10350	5400	*15250	8400	*13950	*13950	*8850	*8850
	-3.0 m	*7550	4050			10400	5450	*14400	8450	*20100	16900	*13650	*13650
	-4.5 m	*8450	5550			*8550	5600	*12100	8700	*17000	*17000		
Arm length 3500 mm													
	6.0 m	*2550	*2550	*4200	*4200								
	4.5 m	*2650	*2650	*5700	4450	*6700	6600						
	3.0 m	*2850	*2850	*6950	4250	*8050	6250	*10200	9950	*15500	*15500		
	1.5 m	*3150	2900	7500	4050	*9450	5850	*12850	9100	*12500	*12500		
	0 m	*3750	2950	7300	3900	*10500	5500	*14600	8550	*11500	*11500	*5500	*5500
	-1.5 m	*4700	3150	7200	3800	10300	5350	*15200	8300	*14400	*14400	*9100	*9100
	-3.0 m	*6550	3700	7200	3800	10250	5300	*14650	8300	*18950	16600	*12900	*12900
	-4.5 m	*8550	5000			*9300	5450	*12850	8450	*18400	17050		
Arm length 2500 mm													
	6.0 m	*5350	4800			*7200	6650						
	4.5 m	*5450	4000	*7250	4350	*8050	6450	*9600	*9600				
	3.0 m	*5800	3600	7700	4250	*9250	6100	*12200	9500				
	1.5 m	6400	3450	7500	4050	*10400	5750	*14350	8800				
	0 m	6600	3550	7350	3950	10500	5550	*15300	8500				
	-1.5 m	7300	3900	7350	3950	10400	5450	*15100	8400	*15700	*15700		
	-3.0 m	*8850	4800			*10150	5500	*13750	8550	*19100	17100		
	-4.5 m	*9000	7250					*10500	8700				
Arm length 2000 mm													
	6.0 m	*5400	5200			*7800	6550						
	4.5 m	*5500	4300			*8550	6350	*10500	10100	*15300	*15300		
	3.0 m	*5850	3850	7600	4200	*9700	6000	*13000	9300				
	1.5 m	*6550	3700	7500	4050	*10700	5700	*14850	8650				
	0 m	7100	3800	7400	3950	10450	5500	*15350	8450				
	-1.5 m	8000	4300			10450	5500	*14750	8450	*16350	*16350		
	-3.0 m	*9100	5400			*9500	5600	*13000	8650	*17400	17300		
	-4.5 m												

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300-8

Conditions: Boom: 6470 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 600 mm (24")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3185 mm (10'5")													
7.5 m (24')	*5300 (11700)	4950 (10900)			*6850 (15200)	5400 (11900)							
6.0 m (19')	*5250 (11600)	3950 (8700)			*7250 (16000)	5350 (11800)							
4.5 m (14')	5050 (11200)	3350 (7400)	5350 (11800)	3600 (7900)	7500 (16500)	5150 (11300)	*9200 (20300)	7600 (16700)					
3.0 m (9')	4700 (10300)	3050 (6800)	5250 (11500)	3450 (7600)	7150 (15800)	4850 (10700)	10450 (23000)	7050 (15600)	*15000 (33100)	11200 (24700)			
1.5 m (4')	4550 (10000)	2950 (6500)	5050 (11200)	3300 (7300)	6900 (15200)	4550 (10100)	9900 (21800)	6550 (14500)	16000 (35300)	10200 (22500)			
0 m (0')	4600 (10200)	3000 (6600)	4950 (10900)	3200 (7100)	6650 (14700)	4350 (9600)	9500 (21000)	6200 (13700)	15400 (34000)	9700 (21400)			
-1.5 m (-4')	4950 (11000)	3200 (7100)	4900 (10800)	3150 (7000)	6550 (14400)	4250 (9400)	9350 (20600)	6050 (13300)	15250 (33700)	9550 (21100)	*9600 (21100)	*9600 (21100)	
-3.0 m (-9')	5750 (12700)	3750 (8200)			6550 (14400)	4250 (9400)	9350 (20600)	6050 (13300)	15300 (33800)	9700 (21400)	*18050 (39700)	*18050 (39700)	
-4.5 m (-14')	7450 (16400)	4900 (10800)					9450 (20900)	6200 (13700)	*12850 (28400)	9950 (22000)	*16600 (36600)	*16600 (36600)	
-6.0 m (-19')	*6300 (13900)	*6300 (13900)							*8150 (18000)	*8150 (18000)			
Arm length 4020 mm (13'2")													
7.5 m (24')	*4150 (9200)	4050 (8900)											
6.0 m (19')	*4050 (9000)	3300 (7300)	5700 (12500)	3900 (8600)									
4.5 m (14')	*4150 (9100)	2900 (6400)	5550 (12300)	3750 (8300)	*7100 (15700)	5350 (11800)							
3.0 m (9')	4100 (9000)	2650 (5800)	5350 (11800)	3600 (7900)	7350 (16300)	5000 (11100)	*9650 (21300)	7300 (16200)	*12950 (28600)	11800 (26000)			
1.5 m (4')	3950 (8700)	2550 (5600)	5150 (11400)	3400 (7500)	7000 (15400)	4650 (10300)	10100 (22300)	6750 (14800)	*15950 (35200)	10550 (23300)			
0 m (0')	4000 (8800)	2550 (5600)	5000 (11000)	3250 (7100)	6700 (14800)	4400 (9700)	9600 (21100)	6250 (13800)	15450 (34100)	9700 (21400)			
-1.5 m (-4')	4250 (9400)	2700 (5900)	4850 (10700)	3100 (6900)	6500 (14300)	4200 (9300)	9250 (20400)	5950 (13200)	15050 (33100)	9350 (20600)	*9750 (21500)	*9750 (21500)	
-3.0 m (-9')	4750 (10500)	3050 (6700)	4850 (10700)	3100 (6900)	6450 (14200)	4150 (9100)	9150 (20200)	5900 (13000)	15000 (33100)	9350 (20600)	*15450 (34100)	*15450 (34100)	
-4.5 m (-14')	5800 (12800)	3750 (8300)			6500 (14400)	4200 (9300)	9250 (20400)	6000 (13200)	*14500 (31900)	9550 (21100)	*20000 (44100)	19800 (43600)	
-6.0 m (-19')	*6550 (14400)	5400 (11900)					*8150 (18000)	6250 (13800)	*11050 (24400)	9850 (21700)	*14600 (32200)	*14600 (32200)	

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300-8

Conditions: Boom: 6470 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 600 mm (24")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2200 mm (7'3")													
7.5 m (24')	*8650 (19100)	6750 (14900)											
6.0 m (19')	7350 (16200)	5000 (11100)			7450 (16400)	5100 (11200)	*9100 (20100)	7700 (17000)					
4.5 m (14')	6200 (13700)	4150 (9200)			7250 (16000)	4900 (10800)	*10250 (22600)	7200 (15900)	*13800 (30400)	11600 (25600)			
3.0 m (9')	5650 (12400)	3750 (8200)			6950 (15300)	4650 (10200)	10050 (22200)	6700 (14800)					
1.5 m (4')	5450 (12000)	3550 (7800)			6700 (14800)	4400 (9700)	9600 (21100)	6250 (13800)					
0 m (0')	5600 (12300)	3650 (8000)			6550 (14500)	4250 (9400)	9300 (20500)	6000 (13300)					
-1.5 m (-4')	6150 (13600)	4000 (8800)			6500 (14400)	4250 (9300)	9250 (20400)	5950 (13100)	15150 (33400)	9550 (21100)			
-3.0 m (-9')	7550 (16600)	4900 (10800)					9400 (20700)	6100 (13400)	*13400 (29600)	9750 (21500)	*14850 (32700)	*14850 (32700)	
-4.5 m (-14')	*7750 (17100)	7350 (16300)					*6550 (14400)	6450 (14200)	*9850 (21800)	9850 (21800)			
Arm length 2550 mm (8'4")													
7.5 m (24')	*7600 (16700)	5750 (12600)											
6.0 m (19')	6500 (14300)	4450 (9800)			7550 (16700)	5200 (11500)							
4.5 m (14')	5600 (12400)	3750 (8300)			7350 (16200)	5000 (11000)	*9900 (21900)	7350 (16200)	*13000 (28600)	11900 (26200)			
3.0 m (9')	5150 (11400)	3400 (7500)	5150 (11400)	3400 (7500)	7050 (15500)	4700 (10400)	10200 (22500)	6850 (15100)	*15500 (34100)	10650 (23500)			
1.5 m (4')	5000 (11000)	3250 (7200)	5000 (11100)	3250 (7200)	6750 (14900)	4450 (9900)	9700 (21400)	6350 (14100)					
0 m (0')	5100 (11300)	3300 (7300)	4950 (10900)	3200 (7000)	6600 (14500)	4300 (9500)	9400 (20700)	6100 (13400)	*14650 (32300)	9500 (20900)			
-1.5 m (-4')	5550 (12300)	3600 (8000)			6500 (14400)	4250 (9300)	9250 (20400)	6000 (13200)	*15200 (33600)	9550 (21100)			
-3.0 m (-9')	6600 (14600)	4300 (9500)			6600 (14500)	4300 (9500)	9350 (20600)	6050 (13400)	*14250 (31500)	9750 (21500)	*17150 (37800)	*17150 (37800)	
-4.5 m (-14')	*7400 (16400)	6000 (13200)					*8300 (18300)	6350 (14000)	*11050 (24300)	9950 (22000)	*13100 (28900)	*13100 (28900)	

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300HD-8

Conditions: Boom: 6500 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 700 mm (28")

Bucket weight: 1021 kg (2252 lb), Lifting mode: ON

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3185 mm (10'5")													
7.6 m (25')	*5300 (11750)	*5300 (11750)			*6350 (14000)	*6350 (14000)							
6.1 m (20')	*5250 (11600)	*5250 (11600)			*7350 (16200)	*7350 (16200)							
4.6 m (15')	*5400 (11900)	5350 (11800)	*6250 (13850)	5500 (12150)	*7900 (17400)	7500 (16550)	*9150 (20250)	*9150 (20250)					
3.0 m (10')	*5750 (12650)	4950 (11000)	*7400 (16300)	5350 (11850)	*8550 (18900)	7200 (15950)	*10500 (23250)	10200 (22500)	*14350 (31650)	*14350 (31650)			
1.5 m (5')	*6300 (13950)	4850 (10700)	*7650 (16900)	5200 (11550)	*9200 (20250)	6950 (15300)	*11650 (25750)	9650 (21350)	*16400 (36150)	14850 (32700)			
0 m (0')	*7250 (16000)	4950 (10950)	*7650 (16950)	5100 (11300)	*9500 (21000)	6750 (14850)	*12250 (27050)	9350 (20600)	*17000 (37450)	14350 (31650)	*8850 (19600)	*8850 (19600)	
-1.5 m (-5')	*7600 (16800)	5350 (11800)			*9350 (20650)	6650 (14650)	*12100 (26750)	9150 (20250)	*16350 (36100)	14200 (31350)	*14200 (31350)	*14200 (31350)	
-3.0 m (-10')	*7700 (16950)	6200 (13700)			*8400 (18500)	6650 (14700)	*11100 (24500)	9200 (20300)	*14700 (32450)	14350 (31600)	*19950 (44050)	*19950 (44050)	
-4.6 m (-15')	*7450 (16450)	*7450 (16450)					*8750 (19350)	*8750 (19350)	*11700 (25850)	*11700 (25850)	*15300 (33700)	*15300 (33700)	
Arm length 4020 mm (13'2")													
7.6 m (25')	*4000 (8850)	*4000 (8850)											
6.1 m (20')	*3950 (8700)	*3950 (8700)	*5650 (12450)	*5650 (12450)									
4.6 m (15')	*4000 (8850)	*4000 (8850)	*6450 (14200)	5500 (12200)	*7050 (15600)	*7050 (15600)							
3.0 m (10')	*4200 (9300)	*4200 (9300)	*6800 (15050)	5350 (11800)	*7850 (17300)	7250 (16000)	*9450 (20900)	*9450 (20900)	*12550 (27700)	*12550 (27700)	*20150 (44500)	*20150 (44500)	
1.5 m (5')	*4550 (10050)	4150 (9150)	*7200 (15950)	5150 (11400)	*8600 (18950)	6900 (15250)	*10850 (23800)	9700 (21400)	*15100 (33300)	15000 (33150)	*8400 (18500)	*8400 (18500)	
0 m (0')	*5100 (11250)	4200 (9300)	*7450 (16450)	5000 (11050)	*9100 (20150)	6600 (14600)	*11750 (25900)	9250 (20400)	*16450 (36250)	14250 (31400)	*9250 (20400)	*9250 (20400)	
-1.5 m (-5')	*6000 (13200)	4450 (9850)	*7350 (16250)	4900 (10850)	*9250 (20450)	6450 (14250)	*12000 (26450)	8950 (19800)	*16500 (36400)	13900 (30700)	*12600 (27750)	*12600 (27750)	
-3.0 m (-10')	*6800 (15000)	5050 (11150)			*8800 (19450)	6400 (14150)	*11450 (25350)	8900 (19650)	*15500 (34200)	13900 (30650)	*17250 (38050)	*17250 (38050)	
-4.6 m (-15')	*6750 (14950)	6200 (13700)			*7300 (16100)	6550 (14450)	*9950 (22000)	9000 (19900)	*13300 (29400)	*13300 (29400)	*18500 (40750)	*18500 (40750)	
-6.1 m (-20')	*6200 (13700)	*6200 (13700)					*6550 (14450)	*6550 (14450)	*9350 (20600)	*9350 (20600)	*12400 (27400)	*12400 (27400)	

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300HD-8

Conditions: Boom: 6500 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 800 mm (32")

Bucket weight: 1021 kg (2252 lb), Lifting mode: ON

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3185 mm (10'5")													
7.6 m (25')	*5300 (11750)	*5300 (11750)			*6350 (14000)	*6350 (14000)							
6.1 m (20')	*5250 (11600)	*5250 (11600)			*7350 (16200)	*7350 (16200)							
4.6 m (15')	*5400 (11900)	*5400 (11900)	*6250 (13850)	5550 (12300)	*7900 (17400)	7600 (16800)	*9150 (20250)	*9150 (20250)					
3.0 m (10')	*5750 (12650)	5050 (11150)	*7400 (16300)	5450 (12050)	*8550 (18900)	7300 (16150)	*10500 (23250)	10300 (22800)	*14350 (31650)	*14350 (31650)			
1.5 m (5')	*6300 (13950)	4950 (10900)	*7650 (16900)	5300 (11700)	*9200 (20250)	7050 (15550)	*11650 (25750)	9800 (21650)	*16400 (36150)	15050 (33200)			
0 m (0')	*7250 (16000)	5050 (11150)	*7650 (16950)	5200 (11500)	*9500 (21000)	6850 (15100)	*12250 (27050)	9450 (20900)	*17000 (37450)	14550 (32100)	*8850 (19600)	*8850 (19600)	
-1.5 m (-5')	*7600 (16800)	5450 (12000)			*9350 (20650)	6750 (14850)	*12100 (26750)	9300 (20550)	*16350 (36100)	14400 (31800)	*14200 (31350)	*14200 (31350)	
-3.0 m (-10')	*7700 (16950)	6300 (13900)			*8400 (18500)	6750 (14950)	*11100 (24500)	9350 (20600)	*14700 (32450)	14550 (32050)	*19950 (44050)	*19950 (44050)	
-4.6 m (-15')	*7450 (16450)	*7450 (16450)					*8750 (19350)	*8750 (19350)	*11700 (25850)	*11700 (25850)	*15300 (33700)	*15300 (33700)	
Arm length 4020 mm (13'2")													
7.6 m (25')	*4000 (8850)	*4000 (8850)											
6.1 m (20')	*3950 (8700)	*3950 (8700)	*5650 (12450)	*5650 (12450)									
4.6 m (15')	*4000 (8850)	*4000 (8850)	*6450 (14200)	5600 (12400)	*7050 (15600)	*7050 (15600)							
3.0 m (10')	*4200 (9300)	*4200 (9300)	*6800 (15050)	5400 (12000)	*7850 (17300)	7350 (16200)	*9450 (20900)	*9450 (20900)	*12550 (27700)	*12550 (27700)	*20150 (44500)	*20150 (44500)	
1.5 m (5')	*4550 (10050)	4200 (9300)	*7200 (15950)	5250 (11550)	*8600 (18950)	7000 (15450)	*10850 (23900)	9850 (21750)	*15100 (33300)	*15100 (33300)	*8400 (18500)	*8400 (18500)	
0 m (0')	*5100 (11250)	4250 (9450)	*7450 (16450)	5100 (11250)	*9100 (20150)	6700 (14850)	*11750 (25900)	9350 (20700)	*16450 (36250)	14450 (31850)	*9250 (20400)	*9250 (20400)	
-1.5 m (-5')	*6000 (13200)	4550 (10050)	*7350 (16250)	5000 (11050)	*9250 (20450)	6550 (14450)	*12000 (26450)	9100 (20100)	*16500 (36400)	14100 (31150)	*12600 (27750)	*12600 (27750)	
-3.0 m (-10')	*6800 (15000)	5100 (11300)			*8800 (19450)	6500 (14350)	*11450 (25350)	9050 (19950)	*15500 (34200)	14100 (31100)	*17250 (38050)	*17250 (38050)	
-4.6 m (-15')	*6750 (14950)	6300 (13900)			*7300 (16100)	6650 (14650)	*9950 (22000)	9150 (20200)	*13300 (29400)	*13300 (29400)	*18500 (40750)	*18500 (40750)	
-6.1 m (-20')	*6200 (13700)	*6200 (13700)					*6550 (14450)	*6550 (14450)	*9350 (20600)	*9350 (20600)	*12400 (27400)	*12400 (27400)	
Arm length 2540 mm (8'4")													
7.6 m (25')	*7600 (16750)	*7600 (16750)											
6.1 m (20')	*7450 (16500)	6850 (15150)			*7950 (17600)	7700 (17700)	*8850 (19550)	*8850 (19550)					
4.6 m (15')	*7650 (16900)	6000 (13250)			*8400 (18550)	7500 (16550)	*9900 (21850)	*9900 (21850)	*12800 (28250)	*12800 (28250)			
3.0 m (10')	*7800 (17200)	5550 (12250)			*8950 (19800)	7250 (15950)	*11100 (24550)	10150 (22350)	*15400 (34000)	*15400 (34000)			
1.5 m (5')	*7900 (17450)	5400 (11950)			*9450 (20850)	7000 (15450)	*12050 (26550)	9650 (21350)	*16850 (37150)	14700 (32400)			
0 m (0')	*8000 (17700)	5550 (12300)			*9550 (21100)	6800 (15050)	*12300 (27150)	9400 (20750)	*16750 (36950)	14400 (31750)			
-1.5 m (-5')	*8100 (17900)	6100 (13400)			*9100 (20100)	6800 (14950)	*11800 (26100)	9300 (20550)	*15600 (34450)	14400 (31800)	*15150 (33400)	*15150 (33400)	
-3.0 m (-10')	*8000 (17650)	7250 (16000)					*10350 (22850)	9400 (20800)	*13500 (29750)	*13500 (29750)	*17050 (37600)	*17050 (37600)	
-4.6 m (-15')	*7250 (16000)	*7250 (16000)							*9750 (21550)	*9750 (21550)	*11850 (26150)	*11850 (26150)	

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300HD-8

Conditions: Boom: 6500 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 900 mm (35.5")

Bucket weight: 1021 kg (2252 lb), Lifting mode: ON

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3185 mm (10'5")													
7.6 m (25')	*5300 (11750)	*5300 (11750)			*6350 (14000)	*6350 (14000)							
6.1 m (20')	*5250 (11600)	*5250 (11600)			*7350 (16200)	*7350 (16200)							
4.6 m (15')	*5400 (11900)	*5400 (11900)	*6250 (13850)	5650 (12450)	*7900 (17400)	7700 (16950)	*9150 (20250)	*9150 (20250)					
3.0 m (10')	*5750 (12650)	5100 (11300)	*7400 (16300)	5500 (12150)	*8550 (18900)	7400 (16350)	*10500 (23250)	10450 (23050)	*14350 (31650)	*14350 (31650)			
1.5 m (5')	*6300 (13950)	5000 (11050)	*7650 (16900)	5350 (11850)	*9200 (20250)	7100 (15700)	*11650 (25750)	9900 (21900)	*16400 (36150)	15200 (33550)			
0 m (0')	*7250 (16000)	5100 (11250)	*7650 (16950)	5200 (11650)	*9500 (21000)	6900 (15250)	*12250 (27050)	9550 (21150)	*17000 (37450)	14700 (32450)	*8850 (19600)	*8850 (19600)	
-1.5 m (-5')	*7600 (16800)	5500 (12150)			*9350 (20650)	6800 (15050)	*12100 (26750)	9400 (20800)	*16350 (36100)	14600 (32200)	*14200 (31350)	*14200 (31350)	
-3.0 m (-10')	*7700 (16950)	6350 (14100)			*8400 (18500)	6850 (15100)	*11100 (24500)	9450 (20850)	*14700 (32450)	14700 (32400)	*19950 (44050)	*19950 (44050)	
-4.6 m (-15')	*7450 (16450)	*7450 (16450)					*8750 (19350)	*8750 (19350)	*11700 (25850)	*11700 (25850)	*15300 (33700)	*15300 (33700)	
Arm length 4020 mm (13'2")													
7.6 m (25')	*4000 (8850)	*4000 (8850)											
6.1 m (20')	*3950 (8700)	*3950 (8700)	*5650 (12450)	*5650 (12450)									
4.6 m (15')	*4000 (8850)	*4000 (8850)	*6450 (14200)	5650 (12550)	*7050 (15600)	*7050 (15600)							
3.0 m (10')	*4200 (9300)	*4200 (9300)	*6800 (15050)	5500 (12150)	*7850 (17300)	7450 (16400)	*9450 (20900)	*9450 (20900)	*12550 (27700)	*12550 (27700)	*20150 (44500)	*20150 (44500)	
1.5 m (5')	*4550 (10050)	4250 (9450)	*7200 (15950)	5300 (11700)	*8600 (18950)	7100 (15650)	*10850 (23900)	9950 (21950)	*15100 (33300)	*15100 (33300)	*8400 (18500)	*8400 (18500)	
0 m (0')	*5100 (11250)	4350 (9550)	*7450 (16450)	5150 (11350)	*9100 (20150)	6800 (15050)	*11750 (25900)	9500 (20900)	*16450 (36250)	14600 (32200)	*9250 (20400)	*9250 (20400)	
-1.5 m (-5')	*6000 (13200)	4600 (10200)	*7350 (16250)	5050 (11150)	*9250 (20450)	6650 (15650)	*12000 (26450)	9200 (20350)	*16500 (36400)	14250 (31450)	*12600 (27750)	*12600 (27750)	
-3.0 m (-10')	*6800 (15000)	5200 (11450)			*8800 (19450)	6600 (14550)	*11450 (25350)	9150 (20200)	*15500 (34200)	14250 (31450)	*17250 (38050)	*17250 (38050)	
-4.6 m (-15')	*6750 (14950)	6400 (14100)			*7300 (16100)	6700 (14800)	*9950 (22000)	9250 (20450)	*13300 (29400)	*13300 (29400)	*18500 (40750)	*18500 (40750)	
-6.1 m (-20')	*6200 (13700)	*6200 (13700)					*6550 (14450)	*6550 (14450)	*9350 (20600)	*9350 (20600)	*12400 (27400)	*12400 (27400)	
Arm length 2540 mm (8'4")													
7.6 m (25')	*7600 (16750)	*7600 (16750)											
6.1 m (20')	*7450 (16500)	6950 (15350)			*7950 (17600)	7800 (17200)	*8850 (19550)	*8850 (19550)					
4.6 m (15')	*7650 (16900)	6050 (13400)			*8400 (18550)	7600 (16750)	*9900 (21850)	*9900 (21850)	*12800 (28250)	*12800 (28250)			
3.0 m (10')	*7800 (17200)	5600 (12400)			*8950 (19800)	7300 (16150)	*11100 (24550)	10250 (22600)	*15400 (34000)	*15400 (34000)			
1.5 m (5')	*7900 (17450)	5500 (12100)			*9450 (20850)	7050 (15600)	*12050 (26550)	9750 (21550)	*16850 (37150)	14850 (32750)			
0 m (0')	*8000 (17700)	5650 (12450)			*9550 (21100)	6900 (15250)	*12300 (27150)	9500 (20950)	*16750 (36950)	14550 (32100)			
-1.5 m (-5')	*8100 (17900)	6150 (13600)			*9100 (20100)	6850 (15150)	*11800 (26100)	9400 (20800)	*15600 (34450)	14550 (32150)	*15150 (33400)	*15150 (33400)	
-3.0 m (-10')	*8000 (17650)	7300 (16150)					*10350 (22850)	9550 (21050)	*13500 (29750)	*13500 (29750)	*17050 (37600)	*17050 (37600)	
-4.6 m (-15')	*7250 (16000)	*7250 (16000)							*9750 (21550)	*9750 (21550)	*11850 (26150)	*11850 (26150)	

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300-7

Conditions: Boom: 6470 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3185 mm (10'5")													
7.6 m (25')		*4600 (10100)	*4600 (10100)			*5950 (13200)	5200 (11500)						
6.1 m (20')		*4500 (9900)	3750 (8300)			*6550 (14400)	5200 (11400)						
4.6 m (15')		*4600 (10100)	3250 (7200)	5200 (11500)	3500 (7700)	*7050 (15500)	5000 (11000)	*8150 (18000)	7400 (16300)				
3.0 m (10')		4500 (9900)	2950 (6500)	5100 (11200)	3350 (7400)	*6950 (15300)	4700 (10400)	*9500 (20900)	6850 (15100)	*12650 (27900)	10550 (23300)		
1.5 m (5')		4350 (9600)	2800 (6200)	4950 (10900)	3250 (7100)	6700 (14800)	4450 (9800)	9550 (21100)	6350 (14000)	*14800 (32600)	9750 (21500)		
0 m (0')		4450 (9800)	2850 (6300)	4800 (10500)	3100 (6900)	6450 (14200)	4250 (9400)	9150 (20200)	6000 (13200)	14600 (32200)	9200 (20300)	*7250 (16000)	*7250 (16000)
-1.5 m (-5')		4750 (10500)	3100 (6800)	4800 (10500)	3100 (6800)	6350 (14000)	4150 (9100)	9000 (19800)	5800 (12800)	14400 (31700)	9050 (19900)	*11750 (25900)	*11750 (25900)
-3.0 m (-10')		5500 (12100)	3550 (7900)			6350 (14000)	4150 (9100)	8950 (19700)	5800 (12800)	*13950 (30800)	9100 (20100)	*17200 (37900)	*17200 (37900)
-4.6 m (-15')		*6700 (14700)	4750 (10400)					*8500 (18700)	6000 (13200)	*11350 (25000)	9350 (20700)	*15250 (33600)	*15200 (33700)
-6.1 m (-20')		*5600 (12300)	*5600 (12300)							*6750 (14900)	*6750 (14900)		
Arm length 4020 mm (13'2")													
7.6 m (25')		*3550 (7900)	*3550 (7900)										
6.1 m (20')		*3500 (7700)	3200 (7000)	*5350 (11800)	3750 (8300)								
4.6 m (15')		*3550 (7800)	2800 (6200)	5400 (11900)	3650 (8100)	*6400 (14100)	5200 (11500)						
3.0 m (10')		*3700 (8200)	2550 (5600)	5200 (11500)	3500 (7700)	7150 (15800)	4900 (10800)	*8600 (19000)	7100 (15700)	*11200 (24700)	*11200 (24700)	18050 (39800)	18050 (39800)
1.5 m (5')		3800 (8400)	2450 (5400)	5000 (11000)	3300 (7300)	6800 (15000)	4550 (10000)	9750 (21500)	6500 (14400)	*13650 (30100)	10100 (22300)	*8050 (17800)	*8050 (17800)
0 m (0')		3850 (8500)	2450 (5400)	4850 (10700)	3150 (6900)	6500 (14300)	4300 (9400)	9250 (20400)	6050 (13300)	14700 (32400)	9300 (20500)	*8100 (17800)	*8100 (17800)
-1.5 m (-5')		4100 (9000)	2600 (5700)	4750 (10500)	3050 (6700)	6300 (13900)	4100 (9000)	8900 (19700)	5750 (12700)	14250 (31400)	8900 (19600)	*10800 (23800)	*10800 (23800)
-3.0 m (-10')		4550 (10000)	2950 (6500)	4750 (10400)	3050 (6700)	6250 (13700)	4000 (8900)	8800 (19400)	5650 (12500)	14150 (31200)	8800 (19400)	*14650 (32300)	*14650 (32300)
-4.6 m (-15')		5600 (12300)	3650 (8000)			6300 (13900)	4100 (9000)	8900 (19600)	5750 (12600)	*12800 (28200)	9000 (19800)	*18300 (40300)	*18300 (40300)
-6.1 m (-20')		*5800 (12800)	5250 (11600)					*6950 (15300)	6000 (13200)	*9550 (21100)	9350 (20700)	*13100 (28800)	*13100 (28800)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300-7

Conditions: Boom: 6470 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2200 mm (7'3")													
	7.6 m (25')	*7650 (16900)	6400 (14100)										
	6.1 m (20')	7000 (15400)	4800 (10600)			7200 (15900)	4950 (10900)	*8200 (18100)	7450 (16400)				
	4.6 m (15')	5950 (13100)	4000 (8800)			7050 (15500)	4800 (10600)	*9100 (20100)	7050 (15500)	*11750 (26000)	11200 (24700)		
	3.0 m (10')	5350 (11800)	3550 (7800)			6750 (14900)	4550 (10000)	9700 (21400)	6500 (14300)	*14200 (31300)	9900 (21800)		
	1.5 m (5')	5200 (11500)	3400 (7500)			6550 (14400)	4300 (9500)	9050 (20000)	5900 (13000)	14450 (31900)	9100 (20100)		
	0 m (0')	5350 (11800)	3450 (7600)			6350 (14000)	4150 (9200)	8950 (19700)	5800 (12800)	14200 (31300)	8850 (19500)		
	-1.5 m (-5')	5850 (12900)	3800 (8400)			6350 (14000)	4100 (9100)	8900 (19600)	5750 (12600)	*14100 (31100)	8900 (19600)	*14200 (31300)	*14200 (31300)
	-3.0 m (-10')	7100 (15700)	4650 (10300)					8850 (19500)	5700 (12600)	*12200 (26900)	9100 (20100)	*15100 (33300)	*15100 (33300)
	-4.6 m (-15')	*6900 (15200)	*6900 (15200)							*8550 (18800)	*8550 (18800)		
Arm length 2550 mm (8'4")													
	7.6 m (25')	*6500 (14400)	5500 (12100)										
	6.1 m (20')	6250 (13800)	4250 (9400)			*7100 (15700)	5050 (11100)						
	4.6 m (15')	5400 (11900)	3600 (7900)			7150 (15700)	4850 (10700)	*8800 (19400)	7150 (15800)				
	3.0 m (10')	4950 (10900)	3250 (7200)			6850 (15100)	4600 (10100)	9850 (21700)	6600 (14500)	*13750 (30300)	10200 (22500)		
	1.5 m (5')	4800 (10600)	3100 (6800)			6600 (14500)	4350 (9600)	9350 (20600)	6150 (13600)	14750 (32500)	9350 (20600)		
	0 m (0')	4900 (10800)	3200 (7000)			6400 (14100)	4200 (9200)	9050 (19900)	5850 (12900)	14350 (31600)	9000 (19800)		
	-1.5 m (-5')	5350 (11800)	3450 (7600)			6350 (14000)	4100 (9100)	8900 (19700)	5750 (12700)	14300 (31600)	8950 (19700)	*12350 (27200)	*12350 (27200)
	-3.0 m (-10')	6300 (13900)	4100 (9100)			6400 (14100)	4200 (9200)	8800 (19400)	5650 (12400)	*12900 (28400)	9100 (20100)	*16850 (37200)	*16850 (37200)
	-4.6 m (-15')	*6600 (14600)	5800 (12800)					*7100 (15600)	6100 (13500)	*9650 (21300)	9500 (20900)	*12100 (26700)	*12100 (26700)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300LC-8

Conditions: Boom: 6470 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 700 mm (28")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3185 mm (10'5")													
7.5 m (24')	*5300 (11700)	5200 (11400)			*6850 (15200)	5650 (12500)							
6.0 m (19')	*5250 (11600)	4150 (9100)			*7250 (16000)	5600 (12400)							
4.5 m (14')	*5400 (11900)	3550 (7900)	6350 (14000)	3800 (8400)	*7800 (17300)	5400 (11900)	*9200 (20300)	7950 (17500)					
3.0 m (9')	5600 (12300)	3250 (7200)	6200 (13700)	3700 (8100)	8450 (18700)	5100 (11300)	*10650 (23500)	7400 (16300)	*15000 (33100)	11750 (25900)			
1.5 m (4')	5450 (12000)	3150 (6900)	6050 (13300)	3550 (7800)	8150 (18000)	4850 (10600)	11800 (26000)	6900 (15200)	*16700 (36900)	10700 (23600)			
0 m (0')	5550 (12200)	3200 (7000)	5900 (13100)	3400 (7500)	7950 (17500)	4600 (10200)	11400 (25100)	6550 (14500)	*17550 (38600)	10200 (22500)			
-1.5 m (-4')	5950 (13100)	3400 (7500)	5850 (12900)	3350 (7400)	7800 (17200)	4500 (9900)	11200 (24700)	6400 (14100)	*17000 (37500)	10100 (22200)	*9600 (21100)	*9600 (21100)	
-3.0 m (-9')	6850 (15100)	3950 (8700)			7800 (17200)	4500 (10000)	11200 (24700)	6400 (14100)	*15550 (34200)	10200 (22500)	*18050 (39700)	*18050 (39700)	
-4.5 m (-14')	*7550 (16600)	5150 (11400)					*9750 (21500)	6550 (14500)	*12850 (28400)	10500 (23100)	*16600 (36600)	*16600 (36600)	
-6.0 m (-19')	*6300 (13900)	*6300 (13900)							*8150 (18000)	*8150 (18000)			
Arm length 4020 mm (13'2")													
7.5 m (24')	*4150 (9200)	*4150 (9200)											
6.0 m (19')	*4050 (9000)	3500 (7800)	*6250 (13800)	4100 (9000)									
4.5 m (14')	*4150 (9100)	3100 (6800)	*6500 (14400)	4000 (8800)	*7100 (15700)	5600 (12400)							
3.0 m (9')	*4300 (9500)	2800 (6200)	6350 (14000)	3800 (8400)	*8000 (17700)	5300 (11600)	*9650 (21300)	7650 (16900)	*12950 (28600)	12300 (27200)			
1.5 m (4')	*4650 (10200)	2700 (6000)	6150 (13500)	3600 (7900)	8300 (18300)	4950 (10900)	*11200 (24700)	7100 (15600)	*15950 (35200)	11050 (24400)			
0 m (0')	4800 (10600)	2700 (6000)	5950 (13100)	3450 (7600)	8000 (17600)	4650 (10300)	11450 (25200)	6600 (14600)	*17250 (38000)	10250 (22600)			
-1.5 m (-4')	5100 (11200)	2900 (6400)	5850 (12900)	3350 (7300)	7750 (17100)	4450 (9900)	11100 (24500)	6300 (13900)	*17250 (38000)	9850 (21800)	*9750 (21500)	*9750 (21500)	
-3.0 m (-9')	5700 (12600)	3250 (7200)	5850 (12800)	3300 (7300)	7700 (17000)	4400 (9700)	11000 (24300)	6250 (13700)	*16400 (36200)	9850 (21700)	*15450 (34100)	*15450 (34100)	
-4.5 m (-14')	6950 (15300)	4000 (8800)			7800 (17200)	4500 (9900)	*10900 (24000)	6350 (13900)	*14500 (31900)	10050 (22200)	*20000 (44100)	*20000 (44100)	
-6.0 m (-19')	*6550 (14400)	5700 (12600)					*8150 (18000)	6600 (14800)	*11050 (24400)	10300 (22700)	*14600 (32200)	*14600 (32200)	

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300LC-8

Conditions: Boom: 6470 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 700 mm (28")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2200 mm (7'3")													
	7.5 m (24')	*8650 (19100)	7050 (15600)										
	6.0 m (19')	*8300 (18300)	5300 (11600)			*8200 (18100)	5350 (11800)	*9100 (20100)	8050 (17700)				
	4.5 m (14')	7350 (16200)	4400 (9700)			8550 (18900)	5150 (11400)	*10250 (22600)	7550 (16700)	*13800 (30400)	12100 (26700)		
	3.0 m (9')	6700 (14800)	3950 (8700)			8250 (18200)	4900 (10800)	*11550 (25500)	7050 (15500)				
	1.5 m (4')	6500 (14300)	3800 (8300)			8000 (17600)	4700 (10300)	11450 (25200)	6600 (14600)				
	0 m (0')	6700 (14700)	3850 (8500)			7850 (17300)	4500 (10000)	11150 (24600)	6350 (14000)				
	-1.5 m (-4')	7350 (16200)	4250 (9400)			7800 (17200)	4500 (9900)	11100 (24400)	6300 (13900)	*15500 (34200)	10100 (22200)		
	-3.0 m (-9')	*8600 (19000)	5200 (11500)					*10550 (23300)	6450 (14200)	*13400 (29600)	10300 (22700)	*14850 (32700)	*14850 (32700)
	-4.5 m (-14')	*7750 (17100)	*7750 (17100)					*6550 (14400)	*6550 (14400)	*9850 (21800)	*9850 (21800)		
Arm length 2550 mm (8'4")													
	7.5 m (24')	*7600 (16700)	6000 (13200)										
	6.0 m (19')	*7450 (16400)	4650 (10300)			*7850 (17400)	5450 (12000)						
	4.5 m (14')	6650 (14600)	3950 (8700)			*8300 (18400)	5250 (11600)	*9900 (21900)	7700 (16900)	*13000 (28600)	12400 (27400)		
	3.0 m (9')	6100 (13500)	3600 (7900)	6100 (13500)	3600 (7900)	8350 (18400)	5000 (11000)	*11300 (24900)	7150 (15800)	*15500 (34100)	11200 (24700)		
	1.5 m (4')	5950 (13100)	3450 (7600)	6000 (13200)	3500 (7700)	8050 (17800)	4750 (10400)	11550 (25500)	6700 (14800)				
	0 m (0')	6100 (13500)	3500 (7800)	5900 (13000)	3400 (7500)	7850 (17300)	4550 (10100)	11250 (24800)	6450 (14200)	*14650 (32300)	10000 (22100)		
	-1.5 m (-4')	6650 (14700)	3850 (8500)			7800 (17200)	4500 (9900)	11100 (24500)	6350 (14000)	*16200 (35700)	10050 (22200)		
	-3.0 m (-9')	7900 (17400)	4550 (10100)			7850 (17400)	4550 (10100)	*11050 (24300)	6400 (14100)	*14250 (31500)	10250 (22600)	*17150 (37800)	*17150 (37800)
	-4.5 m (-14')	*7400 (16400)	6300 (13900)					*8300 (18300)	6700 (14700)	*11050 (24300)	10450 (23100)	*13100 (28900)	*13100 (28900)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300LC-8 (USA source)

Conditions: Boom: 6500 mm (21'3"), Bucket (SAE): 1.4 m³ (1.83 cu.yd),
 Bucket weight: 1014 kg (2235 lb)

unit: kg (lb)

B	A		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3185 mm (10'5") Shoes: 700 mm (28")												
7.6 m (25')	*5350 (11800)	*5350 (11800)			*6050 (13400)	*6050 (13400)						
6.1 m (20')	*5250 (11600)	5250 (11600)			*7200 (15800)	6700 (14700)						
4.6 m (15')	*5350 (11800)	4550 (10100)	*6850 (15100)	4650 (10300)	*7700 (17000)	6500 (14300)	*9050 (19900)	*9050 (19900)				
3.0 m (10')	*5700 (12500)	4200 (9300)	7200 (15900)	4550 (10000)	*8500 (18700)	6200 (13700)	*10450 (23000)	8850 (19500)	*14550 (32100)	13900 (30600)		
1.5 m (5')	*6250 (13800)	4050 (9000)	7050 (15600)	4400 (9700)	*9150 (20100)	5950 (13100)	*11750 (25900)	8350 (18500)	*16850 (37200)	12850 (28400)		
0 m (0')	6700 (14700)	4150 (9100)	6950 (15300)	4300 (9500)	9250 (20400)	5700 (12600)	*12350 (27200)	8000 (17700)	*17200 (37900)	12350 (27200)		
-1.5 m (-5')	7200 (15800)	4450 (9800)	6900 (15200)	4250 (9400)	9100 (20100)	5600 (12400)	*12300 (27100)	7850 (17300)	*16700 (36800)	12200 (26900)	*9950 (21900)	*9950 (21900)
-3.0 m (-10')	*7700 (16900)	5100 (11300)			*8650 (19100)	5600 (12400)	*11450 (25300)	7850 (17300)	*15200 (33500)	12350 (27200)	*17800 (39200)	*17800 (39200)
-4.6 m (-15')	*7500 (16500)	6650 (14600)					*9400 (20800)	8050 (17700)	*12500 (27600)	12500 (27500)	*16150 (35700)	*16150 (35700)
Arm length 3185 mm (10'5") Shoes: 800 mm (31.5")												
7.6 m (25')	*5350 (11800)	*5350 (11800)			*6050 (13400)	*6050 (13400)						
6.1 m (20')	*5250 (11600)	*5250 (11600)			*7200 (15800)	6750 (14900)						
4.6 m (15')	*5350 (11800)	4600 (10200)	*6850 (15100)	4750 (10400)	*7700 (17000)	6550 (14400)	*9050 (19900)	*9050 (19900)				
3.0 m (10')	*5700 (12500)	4250 (9400)	*7300 (16100)	4600 (10200)	*8500 (18700)	6250 (13800)	*10450 (23000)	8950 (19700)	*14550 (32100)	*13950 (30700)		
1.5 m (5')	*6250 (13800)	4100 (9100)	7150 (15800)	4450 (9800)	*9150 (20100)	6000 (13200)	*11750 (25900)	8450 (18600)	*16850 (37200)	13000 (28700)		
0 m (0')	6750 (14900)	4200 (9200)	7050 (15500)	4350 (9600)	9350 (20600)	5800 (12800)	*12350 (27200)	8100 (17900)	*17200 (37900)	12450 (27500)		
-1.5 m (-5')	7250 (16000)	4500 (9900)	7000 (15400)	4300 (9500)	9200 (20300)	5650 (12500)	*12300 (27100)	7950 (17500)	*16700 (36800)	12350 (27200)	*9950 (21900)	*9950 (21900)
-3.0 m (-10')	*7700 (16900)	5200 (11400)			*8650 (19100)	5700 (12500)	*11450 (25300)	7950 (17500)	*15200 (33500)	12450 (27500)	*17800 (39200)	*17800 (39200)
-4.6 m (-15')	*7500 (16500)	6700 (14800)					*9400 (20800)	8100 (17900)	*12500 (27600)	*12500 (27600)	*16150 (35700)	*16150 (35700)
Arm length 3185 mm (10'5") Shoes: 850 mm (33.5")												
7.6 m (25')	*5350 (11800)	*5350 (11800)			*6050 (13400)	*6050 (13400)						
6.1 m (20')	*5250 (11600)	*5250 (11600)			*7200 (15800)	6800 (15000)						
4.6 m (15')	*5350 (11800)	4650 (10200)	*6850 (15100)	4750 (10500)	*7700 (17000)	6600 (14500)	*9050 (19900)	*9050 (19900)				
3.0 m (10')	*5700 (12500)	4300 (9400)	*7300 (16100)	4650 (10200)	*8500 (18700)	6300 (13900)	*10450 (23000)	9000 (19800)	*14550 (32100)	*13950 (30700)		
1.5 m (5')	*6250 (13800)	4150 (9100)	7200 (15900)	4500 (9900)	*9150 (20100)	6000 (13300)	*11750 (25900)	8500 (18700)	*16850 (37200)	13050 (28800)		
0 m (0')	6800 (15000)	4200 (9300)	7100 (15600)	4350 (9700)	9400 (20700)	5800 (12800)	*12350 (27200)	8150 (18000)	*17200 (37900)	12550 (27600)		
-1.5 m (-5')	7300 (16100)	4500 (9900)	7050 (15500)	4350 (9600)	9250 (20500)	5700 (12600)	*12300 (27100)	7950 (17600)	*16700 (36800)	12400 (27300)	*9950 (21900)	*9950 (21900)
-3.0 m (-10')	*7700 (16900)	5200 (11500)			*8650 (19100)	5700 (12600)	*11450 (25300)	8000 (17600)	*15200 (33500)	12500 (27600)	*17800 (39200)	*17800 (39200)
-4.6 m (-15')	*7500 (16500)	6750 (14900)					*9400 (20800)	8150 (18000)	*12500 (27600)	*12500 (27600)	*16150 (35700)	*16150 (35700)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300LC-8 (USA source)

Conditions: Boom: 6500 mm (21'3"), Bucket (SAE): 1.4 m³ (1.83 cu.yd),
 Bucket weight: 1014 kg (2235 lb)

unit: kg (lb)

B	A		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 4020 mm (13'2") Shoes: 700 mm (28")												
7.6 m (25')	*4150 (9200)	*4150 (9200)										
6.1 m (20')	*4050 (9000)	*4050 (9000)	*5850 (12900)	4950 (10900)								
4.6 m (15')	*4100 (9100)	3950 (8800)	*6450 (14200)	4850 (10700)	*7000 (15500)	6700 (14800)						
3.0 m (10')	*4300 (9500)	3700 (8100)	*6850 (15100)	4700 (10300)	*7900 (17400)	6350 (14100)	*9450 (20900)	9100 (20100)	*12600 (27800)	*12600 (27800)		
1.5 m (5')	*4650 (10200)	3550 (7800)	7150 (15800)	4500 (9900)	*8650 (19100)	6050 (13300)	*10950 (24200)	8550 (18800)	*15550 (34300)	13200 (29100)		
0 m (0')	*5150 (11400)	3600 (7900)	7000 (15400)	4300 (9500)	*9250 (20400)	5750 (12700)	*11950 (26400)	8050 (17800)	*16850 (37200)	12400 (27300)	*6100 (13400)	*6100 (13400)
-1.5 m (-5')	*6000 (13200)	3800 (8400)	6900 (15200)	4200 (9300)	9100 (20000)	5550 (12300)	*12250 (27000)	7800 (17100)	*16900 (37300)	12000 (26500)	*10000 (22100)	*10000 (22100)
-3.0 m (-10')	6950 (15300)	4250 (9400)	6850 (15200)	4200 (9300)	9000 (19900)	5500 (12200)	*11900 (26200)	7700 (17000)	*16050 (35400)	12000 (26400)	*15900 (35100)	*15900 (35100)
-4.6 m (-15')	*6950 (15300)	5200 (11400)			*7850 (17400)	5600 (12400)	*10600 (23300)	7800 (17200)	*14100 (31100)	12200 (26900)	*19500 (43000)	*19500 (43000)
Arm length 4020 mm (13'2") Shoes: 800 mm (31.5")												
7.6 m (25')	*4150 (9200)	*4150 (9200)										
6.1 m (20')	*4050 (9000)	*4050 (9000)	*5850 (12900)	5000 (11000)								
4.6 m (15')	*4100 (9100)	4000 (8900)	*6450 (14200)	4900 (10800)	*7000 (15500)	6750 (14900)						
3.0 m (10')	*4300 (9500)	3700 (8200)	*6850 (15100)	4750 (10400)	*7900 (17400)	6450 (14200)	*9450 (20900)	9200 (20300)	*12600 (27800)	*12600 (27800)		
1.5 m (5')	*4650 (10200)	3600 (7900)	7250 (16000)	4550 (10000)	*8650 (19100)	6100 (13400)	*10950 (24200)	8600 (19000)	*15550 (34300)	13350 (29400)		
0 m (0')	*5150 (11400)	3650 (8000)	7050 (15600)	4350 (9600)	*9250 (20400)	5800 (12800)	*11950 (26400)	8150 (18000)	*16850 (37200)	12500 (27600)	*6100 (13400)	*6100 (13400)
-1.5 m (-5')	*6000 (13200)	3850 (8500)	6950 (15400)	4250 (9400)	9200 (20300)	5650 (12400)	*12250 (27000)	7850 (17300)	*16900 (37300)	12150 (26700)	*10000 (22100)	*10000 (22100)
-3.0 m (-10')	*6950 (15300)	4300 (9500)	6950 (15300)	4250 (9400)	9100 (20100)	5600 (12300)	*11900 (26200)	7750 (17100)	*16050 (35400)	12100 (26700)	*15900 (35100)	*15900 (35100)
-4.6 m (-15')	*6950 (15300)	5250 (11600)			*7850 (17400)	5650 (12500)	*10600 (23300)	7900 (17400)	*14100 (31100)	12300 (27200)	*19500 (43000)	*19500 (43000)
Arm length 4020 mm (13'2") Shoes: 850 mm (33.5")												
7.6 m (25')	*4150 (9200)	*4150 (9200)										
6.1 m (20')	*4050 (9000)	*4050 (9000)	*5850 (12900)	5050 (11100)								
4.6 m (15')	*4100 (9100)	4050 (8900)	*6450 (14200)	4950 (10900)	*7000 (15500)	6800 (15000)						
3.0 m (10')	4300 (*9500)	3750 (8300)	*6850 (15100)	4750 (10500)	*7900 (17400)	6450 (14300)	*9450 (20900)	9250 (20400)	*12600 (27800)	*12600 (27800)		
1.5 m (5')	*4650 (10200)	3600 (8000)	*7300 (16100)	4550 (10100)	*8650 (19100)	6150 (13500)	*10950 (24200)	8650 (19100)	*15550 (34300)	13400 (29500)		
0 m (0')	*5150 (11400)	3650 (8100)	7100 (15700)	4400 (9700)	*9250 (20400)	5850 (12900)	*11950 (26400)	8200 (18100)	*16850 (37200)	12550 (27700)	*6100 (13400)	*6100 (13400)
-1.5 m (-5')	*6000 (13200)	3850 (8500)	7000 (15400)	4300 (9500)	9250 (20400)	5650 (12500)	*12250 (27000)	7900 (17400)	*16900 (37300)	12200 (26900)	*10000 (22100)	*10000 (22100)
-3.0 m (-10')	*6950 (15300)	4350 (9500)	*6950 (15400)	4300 (9500)	*9150 (20100)	5600 (12400)	*11900 (26200)	7800 (17200)	*16050 (35400)	12200 (26900)	*15900 (35100)	*15900 (35100)
-4.6 m (-15')	*6950 (15300)	5300 (11600)			*7850 (17400)	5700 (12600)	*10600 (23300)	7900 (17500)	*14100 (31100)	12400 (27300)	*19500 (43000)	*19500 (43000)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300LC-8 (USA source)

Conditions: Boom: 6500 mm (21'3"), Bucket (SAE): 1.4 m³ (1.83 cu.yd),
 Bucket weight: 1014 kg (2235 lb)

unit: kg (lb)

B	A		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2540 mm (8'4") Shoes: 800 mm (31.5")												
7.6 m (25')	*7600 (16800)	7600 (16800)										
6.1 m (20')	*7450 (16400)	5950 (13100)			*7850 (17300)	6600 (14600)						
4.6 m (15')	*7650 (16800)	5100 (11300)			*8250 (18100)	6450 (14200)	*9750 (21500)	9250 (20400)	*12650 (27800)	*12650 (27800)		
3.0 m (10')	7450 (16400)	4700 (10300)	7250 (16000)	4550 (10000)	*8900 (19700)	6150 (13600)	*11050 (24400)	8750 (19300)	*15100 (33300)	13500 (29800)		
1.5 m (5')	7250 (16000)	4550 (10000)	7150 (15700)	4450 (9800)	*9400 (20700)	5950 (13100)	*12100 (26700)	8300 (18300)	*15100 (33300)	12650 (27800)		
0 m (0')	7450 (16500)	4600 (10200)	7050 (15600)	4350 (9600)	9300 (20500)	5750 (12700)	*12400 (27300)	8000 (17700)	*16000 (35300)	12300 (27200)		
-1.5 m (-5')	*8100 (17800)	5050 (11100)			9250 (20400)	5700 (12600)	*12050 (26600)	7900 (17400)	*15950 (35200)	12350 (27300)		
-3.0 m (-10')	*8000 (17700)	5950 (13100)			*7800 (17200)	5800 (12700)	*10800 (23800)	8000 (17600)	*14050 (31000)	12550 (27700)	*17050 (37600)	*17050 (37600)
-4.6 m (-15')	*7350 (16300)	*7350 (16300)					*7900 (17400)	*7900 (17400)	*10750 (23700)	*10750 (23700)	*12800 (28200)	*12800 (28200)
Arm length 2540 mm (8'4") Shoes: 850 mm (33.5")												
7.6 m (25')	*7600 (16800)	*7600 (16800)										
6.1 m (20')	*7450 (16400)	6000 (13200)			*7850 (17300)	6650 (14700)						
4.6 m (15')	*7650 (16800)	5150 (11300)			*8250 (18100)	6450 (14300)	*9750 (21500)	9300 (20500)	*12650 (27800)	*12650 (27800)		
3.0 m (10')	7500 (16500)	4700 (10400)	7300 (16100)	4600 (10100)	*8900 (19700)	6200 (13700)	*11050 (24400)	8800 (19400)	*15100 (33300)	13600 (30000)		
1.5 m (5')	7300 (16100)	4550 (10000)	7200 (15800)	4450 (9900)	*9400 (20700)	5950 (13100)	*12100 (26700)	8350 (18400)	*15100 (33300)	12700 (28000)		
0 m (0')	7500 (16600)	4650 (10300)	7100 (15700)	4400 (9700)	9350 (20700)	5800 (12800)	*12400 (27300)	8050 (17800)	*16000 (35300)	12400 (27300)		
-1.5 m (-5')	*8100 (17800)	5050 (11200)			*9250 (20400)	5750 (12600)	*12050 (26600)	7950 (17500)	*15950 (35200)	12450 (27400)		
-3.0 m (-10')	*8000 (17700)	6000 (13200)			*7800 (17200)	5800 (12800)	*10800 (23800)	8050 (17700)	*14050 (31000)	12600 (27800)	*17050 (37600)	*17050 (37600)
-4.6 m (-15')	*7350 (16300)	*7350 (16300)					*7900 (17400)	*7900 (17400)	*10750 (23700)	*10750 (23700)	*12800 (28200)	*12800 (28200)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300LC-7

Conditions: Boom: 6470 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 700 mm (28") unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3185 mm (10'5")													
7.6 m (25')	*4600 (10100)	*4600 (10100)			*5950 (13200)	5500 (12100)							
6.1 m (20')	*4500 (9900)	3950 (8800)			*6550 (14400)	5450 (12000)							
4.6 m (15')	*4600 (10200)	3450 (7600)	6150 (13600)	3700 (8200)	*7050 (15500)	5250 (11600)	*8150 (18000)	7750 (17100)					
3.0 m (10')	*4900 (10800)	3100 (6900)	6050 (13300)	3550 (7900)	*7750 (17100)	5000 (11000)	*9500 (20900)	7200 (15800)	*12650 (27900)	11050 (24400)			
1.5 m (5')	5200 (11500)	3000 (6600)	5900 (13000)	3450 (7600)	7950 (17500)	4700 (10400)	*10600 (23400)	6700 (14800)	*14800 (32700)	10250 (22600)			
0 m (0')	5300 (11700)	3050 (6700)	5750 (12700)	3350 (7400)	7700 (17000)	4500 (9900)	10950 (24200)	6350 (14000)	*15600 (34300)	9700 (21400)	*7250 (16000)	*7250 (16000)	
-1.5 m (-5')	5700 (12600)	3300 (7300)	5700 (12600)	3300 (7300)	7600 (16700)	4400 (9700)	10750 (23700)	6150 (13600)	*15250 (33600)	9550 (21000)	*11750 (25900)	*11750 (25900)	
-3.0 m (-10')	6550 (14500)	3800 (8400)			7600 (16700)	4400 (9700)	*10500 (23100)	6150 (13600)	*13950 (30800)	9600 (21200)	*17200 (37900)	*17200 (37900)	
-4.6 m (-15')	*6700 (14700)	5000 (11100)					*8500 (18800)	6300 (13900)	*11350 (25000)	9850 (21800)	*15250 (33700)	*15250 (33700)	
-6.1 m (-20')	*5600 (12300)	*5600 (12300)							*6750 (14900)	*6750 (14900)			
Arm length 4020 mm (13'2")													
7.6 m (25')	*3550 (7900)	*3550 (7900)											
6.1 m (20')	*3500 (7700)	3400 (7500)	*5350 (11800)	4000 (8800)									
4.6 m (15')	*3550 (7800)	2950 (6500)	*5850 (13000)	3850 (8500)	*6400 (14100)	5500 (12100)							
3.0 m (10')	*3700 (8200)	2700 (6000)	6150 (13600)	3700 (8200)	*7200 (15800)	5150 (11300)	*8600 (19000)	7450 (16400)	*11200 (24700)	*11200 (24700)	18050 (39800)	18050 (39800)	
1.5 m (5')	*4000 (8800)	2600 (5800)	5950 (13200)	3500 (7700)	*7900 (17400)	4800 (10500)	*9900 (21800)	6850 (15100)	*13650 (30100)	10600 (23400)	*8050 (17800)	*8050 (17800)	
0 m (0')	*4450 (9800)	2650 (5800)	5800 (12800)	3350 (7400)	7750 (17100)	4550 (10000)	*10800 (23800)	6400 (14100)	*15050 (32200)	9800 (21600)	*8100 (17800)	*8100 (17800)	
-1.5 m (-5')	4900 (10800)	2800 (6100)	5700 (12600)	3250 (7200)	7550 (16600)	4350 (9600)	10700 (23600)	6100 (13400)	*15350 (33800)	9400 (20700)	*10800 (23800)	*10800 (23800)	
-3.0 m (-10')	5500 (12100)	3150 (6900)	5650 (12500)	3250 (7100)	7450 (16500)	4300 (9400)	10600 (23300)	6000 (13200)	*14650 (32300)	9300 (20500)	*14650 (32300)	*14650 (32300)	
-4.6 m (-15')	*6200 (13600)	3900 (8600)			*7200 (15900)	4350 (9600)	*9600 (21200)	6050 (13400)	*12800 (28200)	9500 (20900)	*18300 (40300)	*18300 (40300)	
-6.1 m (-20')	*5800 (12800)	5550 (12200)					*6950 (15300)	6350 (14000)	*9550 (21100)	*9550 (21100)	*13100 (28800)	*13100 (28800)	

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC300LC-7

Conditions: Boom: 6470 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 700 mm (28") unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2200 mm (7'3")													
7.6 m (25')	*7650 (16900)	6700 (14700)											
6.1 m (20')	*7350 (16200)	5050 (11100)			*7400 (16300)	5200 (11400)	*8200 (18100)	7800 (17200)					
4.6 m (15')	7000 (15500)	4200 (9300)			*7750 (17000)	5050 (11100)	*9100 (20100)	7400 (16300)	*11750 (26000)	11700 (25800)			
3.0 m (10')	6400 (14100)	3750 (8300)			8050 (17700)	4800 (10600)	*10250 (22600)	6850 (15100)	*14200 (31300)	10400 (22900)			
1.5 m (5')	6200 (13700)	3600 (8000)			7750 (17100)	4550 (10100)	10850 (24000)	6250 (13800)	*15350 (33900)	9600 (21200)			
0 m (0')	6400 (14100)	3700 (8100)			7600 (16800)	4400 (9700)	10750 (23700)	6150 (13500)	*15150 (33400)	9350 (20600)			
-1.5 m (-5')	7000 (15500)	4050 (9000)			7550 (16700)	4350 (9600)	10650 (23500)	6050 (13400)	*14100 (31100)	9400 (20700)	*14200 (31300)	*14200 (31300)	
-3.0 m (-10')	*7650 (16900)	4900 (10800)					*9300 (20500)	6050 (13400)	*12200 (26900)	9600 (21200)	*15100 (33300)	*15100 (33300)	
-4.6 m (-15')	*6900 (15200)	*6900 (15200)							*8550 (18800)	*8550 (18800)			
Arm length 2550 mm (8'4")													
7.6 m (25')	*6500 (14400)	5750 (12700)											
6.1 m (20')	*6400 (14100)	4500 (9900)			*7100 (15700)	5300 (11700)							
4.6 m (15')	6400 (11900)	3600 (7900)			*7500 (16600)	5100 (11300)	*8800 (19400)	7500 (16600)					
3.0 m (10')	5900 (13000)	3450 (7600)			8100 (17900)	4850 (10700)	*10000 (22100)	6950 (15300)	*13750 (30300)	10700 (23600)			
1.5 m (5')	5750 (12600)	3300 (7300)			7850 (17300)	4600 (10200)	*10900 (24100)	6500 (14300)	*15250 (33700)	9850 (21700)			
0 m (0')	5850 (12900)	3300 (7300)			7650 (16800)	4450 (9800)	10800 (23900)	6200 (13700)	*15450 (34000)	9500 (20900)			
-1.5 m (-5')	6400 (14100)	3700 (8100)			7550 (16700)	4350 (9600)	10700 (23600)	6100 (13500)	*14600 (32200)	9450 (20800)	*12350 (27200)	*12350 (27200)	
-3.0 m (-10')	*7150 (15800)	4350 (9600)			*7300 (16100)	4450 (9800)	*9700 (21400)	6000 (13200)	*12900 (28400)	9600 (21200)	*16850 (37200)	*16850 (37200)	
-4.6 m (-15')	*6600 (14600)	6100 (13500)					*7100 (15600)	6450 (14200)	*9650 (21300)	*9650 (21300)	*12100 (26700)	*12100 (26700)	

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC308USLC-3E0

Conditions: Boom: 5850 mm (19'2"), Bucket (SAE): 1.20 m³ (1.57 cu.yd), Shoes: 850 mm (33.5") unit: kg (lb)

B	A	MAX		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')		1.5 m (5')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3045 mm (10'0")													
7.6 m (25')		*3580 (7900)	*3580 (7900)										
6.1 m (20')		*3420 (7500)	*3420 (7500)	*4490 (9900)	*4490 (9900)	*6490 (14300)	*6490 (14300)						
4.6 m (15')		*3460 (7600)	*3460 (7600)	*6530 (14400)	5170 (11400)	*7380 (16200)	*7380 (16200)						
3.0 m (10')		*3640 (8000)	*3640 (8000)	*7430 (16300)	5010 (11000)	*8670 (19100)	7200 (15800)	*11180 (24600)	*11180 (24600)	*17920 (39500)	*17920 (39500)		
1.5 m (5')		*4000 (8800)	3720 (8200)	7630 (16800)	4820 (10600)	*9980 (22000)	6830 (15000)	*13720 (30200)	10630 (23400)	*7720 (17000)	*7720 (17000)		
0 m (0')		*4600 (10100)	3790 (8300)	7470 (16400)	4680 (10300)	10620 (23400)	6560 (14400)	*15160 (33400)	10150 (22300)	*9600 (21100)	*9600 (21100)		
-1.5 m (-5')		*5650 (12400)	4120 (9000)	7400 (16300)	4610 (10100)	10460 (23000)	6420 (14100)	*15390 (33900)	9980 (22000)	*14040 (30900)	*14040 (30900)	*9000 (19800)	*9000 (19800)
-3.0 m (-10')		*7760 (17100)	4880 (10700)			10470 (23100)	6430 (14100)	*14490 (31900)	10030 (22100)	*20340 (44800)	*20340 (44800)	*13850 (30500)	*13850 (30500)
-4.6 m (-15')		*8570 (18800)	6740 (14800)					*12040 (26500)	10280 (22600)	*16950 (37300)	16950 (37300)		
Arm length 3500 mm (11'6")													
7.6 m (25')		*3040 (6700)	*3040 (6700)										
6.1 m (20')		*2920 (6400)	*2920 (6400)	*4670 (10200)	*4670 (10200)								
4.6 m (15')		*2950 (6500)	*2950 (6500)	*6030 (13300)	5200 (11400)	*6770 (14900)	*6770 (14900)						
3.0 m (10')		*3100 (6800)	*3100 (6800)	*7010 (15400)	5010 (11000)	*8100 (17800)	7240 (15900)	*10210 (22500)	*10210 (22500)	*15400 (33900)	*15400 (33900)		
1.5 m (5')		*3400 (7400)	*3400 (7400)	7610 (16700)	4800 (10500)	*9500 (20900)	6830 (15000)	*12940 (28500)	10690 (23500)	*10960 (24100)	*10960 (24100)		
0 m (0')		*3890 (8500)	3490 (7700)	7420 (16300)	4620 (10100)	10570 (23300)	6510 (14300)	*14720 (32400)	10110 (22300)	*10440 (23000)	*10440 (23000)		
-1.5 m (-5')		*4730 (10400)	3760 (8200)	7310 (16100)	4520 (9900)	10370 (22800)	6330 (13900)	*15290 (33700)	9860 (21700)	*13660 (30100)	*13660 (30100)	*8450 (18600)	*8450 (18600)
-3.0 m (-10')		*6350 (14000)	4370 (9600)	7320 (16100)	4530 (9900)	10330 (22700)	6300 (13800)	*14740 (32500)	9850 (21700)	*18720 (41200)	*18720 (41200)	*12570 (27700)	*12570 (27700)
-4.6 m (-15')		*8280 (18200)	5800 (12700)			*9250 (20400)	6440 (14200)	*12820 (28200)	10050 (22100)	*18400 (40500)	*18400 (40500)		
Arm length 4280 mm (13'9")													
7.6 m (25')		*2350 (5100)	*2350 (5100)	*3700 (8100)	*3700 (8100)								
6.1 m (20')		*2220 (4900)	*2220 (4900)	*4430 (9700)	*4430 (9700)								
4.6 m (15')		*2200 (4800)	*2200 (4800)	*5100 (11200)	4960 (10900)								
3.0 m (10')		*2260 (5000)	*2260 (5000)	*6270 (13800)	4730 (10400)	*7080 (15600)	6910 (15200)						
1.5 m (5')		*2420 (5300)	*2420 (5300)	*7120 (15700)	4480 (9800)	*8600 (18900)	6440 (14200)	*11500 (25300)	10160 (22400)	*16490 (36300)	*16490 (36300)		
0 m (0')		*2690 (5900)	*2690 (5900)	7520 (16500)	4260 (9300)	*9890 (21800)	6050 (13300)	*13750 (30300)	9420 (20700)	*10310 (22700)	*10310 (22700)		
-1.5 m (-5')		*3140 (6900)	2900 (6400)	7350 (16200)	4110 (9000)	10470 (23100)	5790 (12700)	*14860 (32700)	9020 (19800)	*11960 (26300)	*11960 (26300)	*6630 (14600)	*6630 (14600)
-3.0 m (-10')		*3920 (8600)	3290 (7200)	7290 (16000)	4050 (8900)	10360 (22800)	5690 (12500)	*14850 (32700)	8900 (19600)	*15730 (34600)	*15730 (34600)	*10030 (22100)	*10030 (22100)
-4.6 m (-15')		*5470 (12000)	4110 (9000)	*6050 (13300)	4150 (9100)	*9940 (21900)	5750 (12600)	*13650 (30000)	9010 (19800)	*20150 (44400)	18440 (40600)	*14250 (31400)	*14250 (31400)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC350-8 (with lifting mode)

Conditions: Boom: 6470 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3185 mm (10'5")													
7.5 m (24')		*4900 (10800)	*4900 (10800)			*6400 (14200)	5550 (12300)						
6.0 m (19')		*4800 (10600)	3950 (8800)			*6750 (14800)	5500 (12100)						
4.5 m (14')		*4950 (10900)	3350 (7400)	5500 (12100)	3600 (8000)	*7300 (16100)	5250 (11600)	*8700 (19200)	7950 (17500)				
3.0 m (9')		4750 (10500)	3050 (6700)	5350 (11800)	3450 (7700)	7450 (16400)	4950 (11000)	*10100 (22300)	7400 (16300)	*14400 (31700)	11950 (26300)		
1.5 m (4')		4600 (12000)	2900 (6400)	5150 (11400)	3300 (7300)	7150 (15700)	4700 (10300)	10400 (23000)	6850 (15100)	*16100 (35500)	10850 (23900)		
0 m (0')		4700 (10400)	2950 (6500)	5050 (11100)	3200 (7000)	6900 (15200)	4450 (9900)	10000 (22100)	6500 (14300)	16400 (36100)	10300 (22700)		
-1.5 m (-4')		5100 (11200)	3200 (7100)	5000 (11000)	3150 (6900)	6750 (14900)	4350 (9600)	9800 (21600)	6300 (13900)	16200 (35700)	10150 (22400)	*9050 (19900)	*9050 (19900)
-3.0 m (-9')		5900 (13000)	3800 (8300)			6750 (14900)	4350 (9600)	9800 (21600)	6300 (13900)	*14900 (32800)	10250 (22600)	*17300 (38200)	*17300 (38200)
-4.5 m (-14')		*6950 (15300)	5050 (11100)					*9200 (20200)	6500 (14300)	*12250 (27000)	10550 (23300)	*15900 (35100)	*15900 (35100)
-6.0 m (-19')		*5700 (12600)	*5700 (12600)							*7550 (16600)	*7550 (16600)		

PC350LC-8 (with lifting mode)

Conditions: Boom: 6470 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3185 mm (10'5")													
7.5 m (24')		*4900 (10800)	*4900 (10800)			*6400 (14200)	5750 (12600)						
6.0 m (19')		*4800 (10600)	4100 (9000)			*6750 (14800)	5650 (12500)						
4.5 m (14')		*4950 (10900)	3500 (7700)	6350 (14100)	3750 (8300)	*7300 (16100)	5450 (12000)	*8700 (19200)	8150 (18000)				
3.0 m (9')		*5300 (11700)	3150 (7000)	6200 (13700)	3600 (7900)	*8100 (17900)	5100 (11300)	*10100 (22300)	7600 (16800)	*14400 (31700)	12250 (27000)		
1.5 m (4')		5400 (11900)	3050 (6700)	6050 (13300)	3450 (7600)	8300 (18300)	4850 (10700)	*11400 (25100)	7100 (15600)	*16100 (35500)	11150 (24600)		
0 m (0')		5500 (12200)	3100 (6800)	5900 (13000)	3300 (7300)	8050 (17800)	4650 (10200)	11700 (25900)	6700 (14800)	*16900 (37200)	10600 (23400)		
-1.5 m (-4')		5950 (13200)	3350 (7400)	5850 (12900)	3250 (7200)	7950 (17500)	4500 (9900)	11500 (25400)	6500 (14400)	*16400 (36100)	10450 (23100)	*9050 (19900)	*9050 (19900)
-3.0 m (-9')		6950 (15300)	3900 (8600)			7950 (17500)	4500 (9900)	*11150 (24500)	6500 (14400)	*14900 (32800)	10600 (23300)	*17300 (38200)	*17300 (38200)
-4.6 m (-14')		*6950 (15300)	5200 (11500)					*9200 (20200)	6700 (14800)	*12250 (27000)	10850 (24000)	*15900 (35100)	*15900 (35100)
-6.0 m (-19')		*5700 (12600)	*5700 (12600)							*7550 (16600)	*7550 (16600)		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC350-7 (with lifting mode)

Conditions: Boom: 6470 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3185 mm (10'5")													
7.6 m (25')		*4550 (10000)	*4550 (10000)			*6000 (13300)	5400 (11900)						
6.1 m (20')		*4450 (9800)	3800 (8400)			*6650 (14700)	5350 (11800)						
4.6 m (15')		*4600 (10100)	3250 (7100)	5350 (11800)	3500 (7700)	*7200 (15900)	5150 (11400)	*8400 (18500)	7750 (17100)				
3.0 m (10')		4550 (10000)	2900 (6400)	5200 (11500)	3400 (7500)	7250 (16000)	4850 (10700)	*9800 (21700)	7200 (15800)	*13150 (28900)	11150 (24600)		
1.5 m (5')		4400 (9800)	2800 (6200)	5050 (11100)	3250 (7200)	6950 (15300)	4600 (10100)	10050 (22200)	5550 (14700)	*15550 (34200)	10350 (22900)		
0 m (0')		4500 (10000)	2850 (6300)	4950 (10900)	3150 (6900)	6700 (14800)	4350 (9600)	9650 (21300)	6250 (13800)	15500 (34200)	9800 (21600)	*7450 (16400)	*7450 (16400)
-1.5 m (-5')		4900 (10800)	3100 (6800)	4900 (10800)	3100 (6800)	6600 (14500)	4250 (9300)	9450 (20800)	6100 (13400)	15300 (33700)	9600 (21200)	*12200 (26900)	*12200 (26900)
-3.0 m (-10')		5650 (12500)	3600 (8000)			6600 (14500)	4250 (9300)	9400 (20800)	6050 (13400)	*14600 (32200)	9650 (21300)	*18000 (39700)	*18000 (39700)
-4.6 m (-15')		*6800 (15000)	4900 (10800)					*8800 (19400)	6250 (13800)	*11800 (26100)	9950 (22000)	*16050 (35400)	*16050 (35400)
-6.1 m (-20')		*5650 (12500)	*5650 (12500)							*6950 (15300)	*6950 (15300)		

PC350LC-7 (with lifting mode)

Conditions: Boom: 6470 mm (21'3"), Bucket (SAE): 1.40 m³ (1.83 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3185 mm (10'5")													
7.6 m (25')		*4550 (10000)	*4550 (10000)			*6000 (13300)	5550 (12200)						
6.1 m (20')		*4450 (9800)	3900 (8700)			*6650 (14700)	5500 (12100)						
4.6 m (15')		*4600 (10100)	3350 (7400)	6200 (13700)	3650 (8000)	*7200 (15900)	5300 (11700)	*8400 (18500)	7950 (17500)				
3.0 m (10')		*4900 (10800)	3000 (6700)	6050 (13400)	3500 (7700)	*7950 (17500)	5000 (11100)	*9800 (21700)	7400 (16300)	*13150 (28900)	11450 (25200)		
1.5 m (5')		5200 (11500)	2900 (6400)	5900 (13000)	3350 (7400)	8100 (17800)	4750 (10400)	*11000 (24300)	6850 (15100)	*15550 (34200)	10650 (23500)		
0 m (0')		5300 (11700)	2950 (6500)	5800 (12700)	3250 (7200)	7850 (17300)	4500 (9900)	11300 (24900)	6500 (14300)	*16350 (36000)	10100 (22200)	*7450 (16400)	*7450 (16400)
-1.5 m (-5')		5750 (12600)	3200 (7100)	5750 (12600)	3200 (7100)	7700 (17000)	4400 (9700)	11100 (24400)	6300 (13900)	*16000 (35200)	9900 (21800)	*12200 (26900)	*12200 (26900)
-3.0 m (-10')		6650 (14600)	3750 (8300)			7700 (17000)	4400 (9700)	*10900 (24000)	6300 (13800)	*14600 (32200)	9950 (22000)	*18000 (39700)	*18000 (39700)
-4.6 m (-15')		*6800 (15000)	5050 (11200)					*8800 (19400)	6450 (14300)	*11800 (26100)	10250 (22600)	*16050 (35400)	*16050 (35400)
-6.1 m (-20')		*5650 (12500)	*5650 (12500)							*6950 (15300)	*6950 (15300)		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC350LC-8

Conditions: Boom: 6470 mm, Bucket (SAE): 1.38 m³, Shoes: 700 mm

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3200 mm													
	6.0 m	*5200	5100	*7150	6800								
	4.5 m	*5350	4450	*7700	6550	*9050	*9050						
	3.0 m	*5650	4100	*8500	6250	*10500	8950	*14800	14050				
	1.5 m	*6200	3950	*9150	5950	*11800	8400	*16450	12950				
	0 m	6550	4000	9350	5750	*12400	8050	*17250	12400				
	-1.5 m	7050	4300	9200	5600	*12350	7850	*16750	12300	*9550	*9550		
	-3.0 m	*7550	4950	*8750	5600	*11500	7900	*15250	12400	*17650	*17650		
	-4.5 m	*7350	6400			*9550	8050	*12600	12600	*16250	*16250		
Arm length 4000 mm													
	6.0 m	*3950	*3950										
	4.5 m	*4000	3800	*6950	6750								
	3.0 m	*4150	3550	*7850	6400	*9500	9200	*12800	*12800				
	1.5 m	*4500	3400	*8650	6050	*11050	8600	*15750	13400				
	0 m	*5050	3450	*9250	5750	*12000	8100	*17000	12550				
	-1.5 m	*5850	3650	9150	5550	*12300	7800	*17000	12150	*9550	*9550	*6750	*6750
	-3.0 m	6750	4100	*9100	5500	*11950	7700	*16200	12150	*15300	*15300	*9700	*9700
	-4.5 m	*6750	5000	*8000	5600	*10700	7800	*14250	12350	*19750	*19750	*14700	*14700
Arm length 2550 mm													
	6.0 m	*7450	5800	*7850	6700								
	4.5 m	*7600	5000	*8300	6500	*9900	9350	*12950	*12950				
	3.0 m	7300	4600	*9000	6200	*11250	8800	*15450	13600				
	1.5 m	7150	4450	*9500	5950	*12250	8350						
	0 m	7300	4500	9400	5800	*12550	8050	*14700	12400				
	-1.5 m	7950	4900	9300	5700	*12200	7950	*16100	12450				
	-3.0 m	*7950	5800	*8100	5800	*10950	8000	*14200	12650	*17050	*17050		
	-4.5 m	*7350	*7350			*8250	*8250	*10950	*10950	*13000	*13000		
Arm length 2200 mm													
	6.0 m	*8300	6500	*8200	6600	*9050	*9050						
	4.5 m	*8200	5500	*8550	6400	*10200	9200	*13750	*13750				
	3.0 m	8000	5000	*9150	6150	*11500	8700						
	1.5 m	7750	4800	9500	5900	*12350	8250						
	0 m	8000	4950	9350	5750	*12500	7950						
	-1.5 m	*8650	5400	*9200	5700	*11950	7900	*15400	12450				
	-3.0 m	*8550	6550			*10500	8050	*13350	12550	*14700	*14700		
	-4.5 m	*7700	*7700			*6500	*6500	*9800	*9800				

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC350NLC-8

Conditions: Boom: 6470 mm, Bucket (SAE): 1.38 m³, Shoes: 600 mm

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3200 mm													
	6.0 m	*5200	4600	*7150	6200								
	4.5 m	*5350	4000	*7700	5950	*9050	8650						
	3.0 m	*5850	3650	*8500	5650	*10500	8100	*14800	12650				
	1.5 m	*6200	3550	*9150	5350	*11800	7600	*16400	11600				
	0 m	6450	3600	9200	5150	*12400	7200	*17250	11100				
	-1.5 m	6950	3850	9050	5000	*12350	7050	*16750	10950	*9550	*9550		
	-3.0 m	*7550	4450	*8750	5050	*11500	7050	*15250	11100	*17650	*17650		
	-4.5 m	*7350	5750			*9550	7250	*12600	11350	*16250	*16250		
Arm length 4000 mm													
	6.0 m	*3950	3900										
	4.5 m	*4000	3400	*6950	6150								
	3.0 m	*4150	3150	*7850	5800	*9500	8350	*12800	*12800				
	1.5 m	*4500	3050	*8650	5450	*11050	7750	*15750	12000				
	0 m	*5050	3050	9200	5150	*12000	7300	*17000	11200				
	-1.5 m	*5850	3250	9050	5000	*12300	7000	*17000	10800	*9550	*9550	*6750	*6750
	-3.0 m	6650	3650	8950	4900	*11950	6900	*16200	10800	*15300	*15300	*9700	*9700
	-4.5 m	*6750	4450	*8000	5000	*10700	7000	*14250	11000	*19750	*19750	*14700	*14700
Arm length 2550 mm													
	6.0 m	*7450	5250	*7850	6100								
	4.5 m	*7600	4500	*8300	5900	*9900	8500	*12950	*12950				
	3.0 m	7200	4100	*9000	5600	*11250	7950	*15450	12250				
	1.5 m	7050	4000	9450	5350	*12250	7500						
	0 m	7200	4050	9250	5200	*12550	7250	*14700	11050				
	-1.5 m	7850	4400	9150	5100	*12200	7100	*16100	11100				
	-3.0 m	*7950	5200	*8100	5200	*10950	7200	*14200	11300	*17050	*17050		
	-4.5 m	*7350	7100			*8250	7500	*10950	*10950	*13000	*13000		
Arm length 2200 mm													
	6.0 m	*8300	5900	*8200	6000	*9050	8850						
	4.5 m	*8200	5000	*8550	5800	*10200	8350	*13750	13150				
	3.0 m	7850	4500	*9150	5500	*11500	7850						
	1.5 m	7650	4350	9400	5300	*12350	7400						
	0 m	7900	4450	9200	5150	*12500	7150						
	-1.5 m	*8650	4850	*9150	5100	*11950	7100	*15400	11150				
	-3.0 m	*8550	5900			*10500	7200	*13350	11350	*14700	*14700		
	-4.5 m	*7700	*7700			*6500	*6500	*9800	*9800				

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC400-8/PC400-8R

Conditions: Boom: 7060 mm (23'2"), Bucket (SAE): 1.90 m³ (2.49 cu.yd), Shoes: 600 mm (24")

Lifting mode: ON

unit: kg (lb)

B	A		MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3380 mm (11'1")														
7.5 m (24')	*6800 (15000)	6250 (13800)												
6.0 m (19')	*6800 (15000)	5250 (11600)	9050 (20000)	6100 (13400)	*10150 (22400)	8500 (18700)								
4.5 m (14')	*7000 (15400)	4700 (10300)	8850 (19500)	5900 (13000)	*11200 (24700)	8100 (17900)	*13450 (29700)	11750 (25900)						
3.0 m (9')	6750 (14900)	4350 (9600)	8600 (19000)	5650 (12500)	11650 (25600)	7700 (16900)	*15750 (34800)	11000 (24200)	*21600 (47700)	17150 (37800)				
1.5 m (4')	6600 (14600)	4250 (9400)	8350 (18400)	5450 (12000)	11200 (24700)	7300 (16100)	16100 (35500)	10300 (22700)	*16950 (37400)	15850 (34900)				
0.0 m (0')	6750 (14900)	4300 (9500)	8150 (18000)	5250 (11600)	10900 (24100)	7050 (15500)	15600 (34400)	9850 (21800)	*17000 (37500)	15350 (33900)				
-1.5 m (-4')	7200 (15900)	4600 (10200)	8050 (17800)	5150 (11400)	10750 (23700)	6850 (15200)	15350 (33900)	9650 (21300)	*22700 (50100)	15350 (33800)				
-3.0 m (-9')	8150 (18000)	5250 (11600)	8100 (17900)	5200 (11500)	10700 (23600)	6850 (15100)	15400 (33900)	9700 (21400)	*21800 (48000)	15500 (34200)	*18600 (41100)	*18600 (41100)		
-4.5 m (-14')	*9850 (21700)	6500 (14400)			10850 (23900)	7000 (15500)	*14500 (32000)	9900 (21800)	*18550 (40900)	15800 (34900)	*23300 (51300)	*23300 (51300)		
-6.0 m (-19')	*8800 (19500)	*8800 (19500)					*10150 (22400)	*10150 (22400)	*13350 (29400)	*13350 (29400)				
Arm length 4000 mm (13'1") Bucket: 1.6 m ³ (2.09 cu.yd)														
7.5 m (24')	*5850 (12900)	5600 (12400)			*8550 (18800)	6350 (14000)								
6.0 m (19')	*5800 (12800)	4800 (10600)			*8800 (19400)	6250 (13800)								
4.5 m (14')	*6000 (13200)	4300 (9500)	6800 (15000)	4450 (9800)	9000 (19800)	6000 (13300)	*10500 (23100)	8300 (18300)						
3.0 m (9')	6250 (13700)	4000 (8800)	6650 (14700)	4350 (9500)	8700 (19200)	5750 (12700)	*11800 (26000)	7850 (17300)	*14700 (32500)	11250 (24800)	*20750 (45800)	17700 (39100)		
1.5 m (4')	6100 (13500)	3900 (8600)	6500 (14400)	4200 (9200)	8400 (18500)	5500 (12100)	11300 (25000)	7400 (16300)	16250 (35900)	10450 (23100)	*23300 (51300)	16150 (35600)		
0.0 m (0')	6200 (13700)	3950 (8700)	6400 (14100)	4050 (9000)	8200 (18100)	5250 (11600)	10950 (24100)	7050 (15600)	15650 (34500)	9900 (21900)	*20450 (45150)	15350 (33800)		
-1.5 m (-4')	6550 (14500)	4150 (9200)	6300 (13900)	4000 (8800)	8050 (17700)	5150 (11300)	10700 (23600)	6850 (15100)	15300 (33700)	9600 (21200)	*23250 (51300)	15050 (33200)		
-3.0 m (-9')	7300 (16100)	4650 (10200)			8000 (17700)	5100 (11300)	10600 (23400)	6750 (14900)	15200 (33500)	9500 (21000)	*22850 (50400)	15150 (33400)		
-4.5 m (-14')	8750 (19300)	5600 (12300)					10700 (23600)	6850 (15100)	15300 (33700)	9650 (21300)	*20200 (44500)	15400 (34000)		
-6.0 m (-19')	*9150 (20100)	7650 (166900)					*8250 (18100)	7150 (15800)	*12250 (27000)	10000 (22000)	*15850 (35000)	15750 (34700)		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

LIFTING CAPACITY

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2400 mm (7'10")													
7.5 m (24')	*11050 (24400)	7950 (17600)			*11050 (24300)	8450 (18600)							
6.0 m (19')	9650 (21300)	6450 (14300)			*11400 (25100)	8250 (18200)	*13150 (28900)	12050 (26500)					
4.5 m (14')	8550 (18900)	5650 (12500)	8750 (19300)	5800 (12800)	11850 (26200)	7900 (17500)	*15150 (33400)	11350 (25100)					
3.0 m (9')	8000 (17600)	5250 (11600)	8550 (18800)	5600 (12400)	11450 (25300)	7550 (16700)	16450 (36300)	10650 (23500)					
1.5 m (4')	7850 (17300)	5100 (11300)	8350 (18400)	5450 (1200)	11150 (24600)	7250 (16000)	15850 (35000)	10150 (22300)					
0.0 m (0')	8100 (17800)	5250 (11500)	8250 (18100)	5300 (11700)	10900 (24100)	7050 (15600)	15550 (34300)	9850 (21700)					
-1.5 m (-4')	8800 (19400)	5700 (12500)	8250 (18100)	5300 (11700)	10850 (23900)	7000 (15400)	15500 (34200)	9800 (21600)	*18450 (40700)	15600 (34400)			
-3.0 m (-9')	10350 (22800)	6700 (14800)			10950 (24100)	7100 (15600)	*15600 (34300)	9950 (21900)	*19150 (42200)	16000 (35200)	*18450 (40700)	*18450 (40700)	
-4.5 m (-14')	*10500 (23100)	9000 (19900)					*12200 (26900)	10250 (22600)	*15150 (33400)	*15150 (33400)			
Arm length 2900 mm (9'6")													
7.5 m (24')	*10050 (22200)	7200 (15900)			*10100 (22300)	8500 (18700)							
6.0 m (19')	8900 (19600)	5900 (13000)	8850 (19500)	5900 (13000)	*10650 (23400)	8250 (18200)							
4.5 m (14')	7900 (17400)	5150 (11400)	8650 (19100)	5700 (12600)	*11600 (25600)	7900 (17400)	*14150 (31200)	11400 (25100)	*18550 (40900)	18200 (40200)			
3.0 m (9')	7400 (16300)	4750 (10500)	8450 (18600)	5500 (12100)	11400 (25100)	7450 (16500)	*16300 (35900)	10650 (23500)					
1.5 m (4')	7250 (15900)	4650 (10200)	8200 (18100)	5300 (11700)	11000 (24300)	7100 (15700)	15750 (34800)	10000 (22100)					
0.0 m (0')	7400 (16300)	4700 (10400)	8050 (17700)	5150 (11300)	10750 (23700)	6850 (15100)	15350 (33800)	9650 (21300)					
-1.5 m (-4')	8000 (17600)	5100 (11200)	8000 (17600)	5100 (11200)	10600 (23400)	6750 (14900)	15200 (33500)	9500 (21000)	*22650 (49900)	15250 (33600)			
-3.0 m (-9')	9250 (20400)	5900 (13000)			10650 (23500)	6800 (15000)	15300 (33800)	9600 (21200)	*20350 (44800)	15450 (34100)	*22050 (48600)	*22050 (48600)	
-4.5 m (-14')	*10550 (23200)	7700 (17000)			*9350 (20600)	7050 (15500)	*13300 (29300)	9900 (21800)	*16700 (36800)	15650 (34500)	*19650 (43400)	*19650 (43400)	

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC400-7

Conditions: Boom: 7060 mm (23'2"), Bucket (SAE): 1.90 m³ (2.49 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3380 mm (11'1")												
7.5 m (24')	*5750 (12600)	*5750 (12600)	*6700 (14700)	6300 (13800)								
6.0 m (19')	*5750 (12600)	5150 (11300)	*8400 (18500)	6250 (13700)	*9150 (20100)	8700 (19100)						
4.5 m (14')	*5950 (13000)	4650 (10100)	*8850 (19500)	6050 (13300)	*10100 (22100)	8350 (18300)	*12050 (26500)	*12050 (26500)				
3.0 m (9')	*6250 (13700)	4350 (9500)	8850 (19400)	5850 (12800)	*11100 (24400)	7900 (17400)	*13900 (30600)	11250 (24700)	*19450 (42800)	17450 (38400)		
1.5 m (4')	6600 (14400)	4250 (9300)	8600 (18800)	5600 (12300)	11500 (25200)	7550 (16500)	*15400 (33900)	10550 (23200)	*20800 (45800)	16100 (35400)		
0.0 m (0')	6750 (14700)	4300 (9400)	8400 (18400)	5450 (11900)	11150 (24500)	7250 (15900)	15850 (34900)	10100 (22100)	*19800 (43600)	15550 (34200)		
-1.5 m (-4')	7150 (15700)	4600 (10100)	8300 (18200)	5350 (11700)	11000 (24100)	7050 (15500)	15650 (34400)	9850 (21700)	*21500 (47300)	15400 (33900)	*12950 (28500)	*12950 (28500)
-3.0 m (-9')	8050 (17700)	5200 (11400)	8300 (18300)	5400 (11800)	10950 (24100)	7050 (15500)	*15050 (33100)	9850 (21700)	*19700 (43400)	15550 (34100)	*19000 (41800)	*19000 (41800)
-4.5 m (-14')	*8550 (18700)	6400 (14000)			*9900 (21800)	7200 (15800)	*13000 (28600)	10050 (22100)	*16750 (36800)	15850 (34900)	*21750 (47900)	*21750 (47900)
-6.0 m (-19')	*7700 (16900)	*7700 (16900)					*9050 (19800)	*9050 (19800)	*11950 (26200)	*11950 (26200)		
Arm length 4000 mm (13'1")												
7.5 m (24')	*4900 (10800)	*4900 (10800)	*7550 (16500)	6450 (14100)								
6.0 m (19')	*4900 (10700)	4650 (10200)	7800 (17100)	6350 (13900)								
4.5 m (14')	*5050 (11000)	4200 (9200)	*8350 (18300)	6150 (13400)	*9350 (20600)	8450 (18600)						
3.0 m (9')	*5300 (11600)	3950 (8600)	8850 (19500)	5900 (12900)	*10500 (23000)	8000 (17600)	*12950 (28500)	11450 (25100)	*17750 (39100)	*17750 (39100)		
1.5 m (4')	*5750 (12600)	3850 (8400)	8600 (18900)	5600 (12300)	*11500 (25300)	7550 (16600)	*14700 (32300)	10650 (23400)	*20800 (45800)	16400 (36100)		
0.0 m (0')	*6150 (13400)	3900 (8500)	8350 (18300)	5400 (11800)	11150 (24500)	7200 (15800)	*15750 (34700)	10050 (22100)	*21900 (48200)	15550 (34200)	*8550 (18800)	*8550 (18800)
-1.5 m (-4')	6450 (14200)	4100 (9000)	8200 (18000)	5250 (11500)	10900 (23900)	6950 (15300)	*15500 (34100)	9750 (21400)	*21850 (48100)	15250 (33500)	*12500 (27500)	*12500 (27500)
-3.0 m (-9')	7200 (15700)	4600 (10000)	8150 (17900)	5200 (11400)	10800 (23700)	6900 (15100)	*15400 (33900)	9650 (21200)	*20550 (45300)	15250 (33500)	*17350 (38100)	*17350 (38100)
-4.5 m (-14')	*8200 (18000)	5500 (12000)			*10700 (23500)	6950 (15300)	*13850 (30400)	9750 (21500)	*18150 (39900)	15450 (34000)	*23400 (51500)	*23400 (51500)
-6.0 m (-19')	*7850 (17200)	7350 (16100)					*10700 (23500)	9900 (21800)	*14150 (31100)	*14150 (31100)	*18550 (40800)	*18550 (40800)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

LIFTING CAPACITY

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2400 mm (7'10")													
7.5 m (24')	*9700 (21300)	7750 (17000)			*9850 (21600)	8600 (18900)							
6.0 m (19')	*9500 (20800)	6400 (14000)			*10300 (22600)	8450 (18600)							
4.5 m (14')	8500 (18600)	5650 (12300)	8950 (19600)	5950 (13000)	*11100 (24300)	8150 (17900)	*13500 (29700)	11650 (25600)	*18400 (40500)	18150 (40000)			
3.0 m (9')	7950 (17500)	5250 (11500)	8750 (19200)	5800 (12700)	11750 (25800)	7800 (17100)	*14900 (32800)	10650 (23400)					
1.5 m (4')	7850 (17200)	5100 (11200)	8600 (18800)	5600 (12300)	11400 (25100)	7450 (16400)	16150 (35500)	10350 (22700)					
0.0 m (0')	8050 (17700)	5250 (11500)	8450 (18600)	5500 (12100)	11150 (24600)	7250 (15900)	15800 (34800)	10050 (22000)	*15150 (33400)	*15150 (33400)			
-1.5 m (-4')	8750 (19200)	5700 (12500)			11100 (24400)	7200 (15800)	*15600 (34400)	9950 (21900)	*19950 (43900)	15600 (34300)			
-3.0 m (-9')	*9850 (21600)	6650 (14600)			*10850 (23900)	7250 (15900)	*14000 (30700)	10100 (22200)	*17550 (38600)	15900 (34900)	*20600 (45400)	*20600 (45400)	
-4.5 m (-14')	*9300 (20400)	8800 (19300)					*10700 (23500)	10150 (22300)	*13700 (30100)	*13700 (30100)			
Arm length 2900 mm (9'6")													
7.5 m (24')	*8800 (19400)	7000 (15300)			*9100 (19900)	8700 (19100)							
6.0 m (19')	8700 (19100)	5800 (12700)	*8800 (19300)	6050 (13300)	*9600 (21100)	8500 (18700)							
4.5 m (14')	7800 (17100)	5150 (11200)	*8900 (19600)	5900 (13000)	*10450 (23000)	8150 (17900)	*12650 (27800)	11750 (25800)	*16850 (37100)	*16850 (37100)			
3.0 m (9')	7350 (16100)	4800 (10500)	*8700 (19100)	5700 (12500)	*11400 (25100)	7750 (17000)	*14400 (31700)	10950 (24000)					
1.5 m (4')	7200 (15800)	4650 (10200)	*8500 (18600)	5500 (12100)	11300 (24900)	7350 (16200)	*15650 (34400)	10250 (22600)					
0.0 m (0')	7400 (16200)	4750 (10400)	*8300 (18300)	5350 (11700)	11050 (24200)	7100 (15600)	15650 (34400)	9900 (21700)	*20500 (45100)	15250 (33500)			
-1.5 m (-4')	7950 (17400)	5100 (11200)	*8250 (18100)	5300 (11600)	10900 (24000)	7000 (15300)	15500 (34100)	9750 (21400)	*20650 (45500)	15250 (33500)	*14800 (32600)	*14800 (32600)	
-3.0 m (-9')	9100 (20000)	5900 (12900)			10950 (24000)	7000 (15400)	*14400 (31700)	9800 (21500)	*18500 (40700)	15450 (34000)	*22800 (50200)	*22800 (50200)	
-4.5 m (-14')	*9200 (20200)	7500 (16500)					*11900 (26200)	10050 (22100)	*15150 (33000)	*15150 (33300)	*18700 (41100)	*18700 (41100)	
-6.0 m (-19')	*7850 (17200)	*7850 (17200)											

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC400LC-8/PC400LC-8R

Conditions: Boom: 7060 mm (23'2"), Bucket (SAE): 1.90 m³ (2.49 cu.yd), Shoes: 600 mm (24")

Lifting mode: ON

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3380 mm (11'1")													
7.5 m (24')	*6800 (15000)	6450 (14200)											
6.0 m (19')	*6800 (15000)	5450 (12000)	*9400 (20700)	6300 (13900)	*10150 (22400)	8750 (19300)							
4.5 m (14')	*7000 (15400)	4850 (10700)	9900 (21800)	6100 (13500)	*11200 (24700)	8350 (18500)	*13450 (29700)	12050 (26600)					
3.0 m (9')	*7400 (16400)	4550 (10000)	9900 (21800)	5850 (12900)	*12400 (27400)	7950 (17500)	*15750 (34800)	11300 (25000)	*21600 (47700)	17650 (38900)			
1.5 m (4')	7650 (16900)	4400 (9800)	9650 (21200)	5650 (12400)	12950 (28500)	7550 (16700)	*17450 (38500)	10650 (23500)	*16950 (37400)	16350 (36100)			
0.0 m (0')	7800 (17200)	4500 (9900)	9450 (20800)	5450 (12000)	12600 (27800)	7300 (16100)	*18050 (39800)	10200 (22500)	*17000 (37500)	15850 (35000)			
-1.5 m (-4')	8350 (18400)	4800 (10600)	9350 (20600)	5400 (11900)	12450 (27400)	7150 (15700)	*17900 (39400)	10000 (22100)	*22700 (50100)	15850 (34900)			
-3.0 m (-9')	9450 (20800)	5450 (12000)	9350 (20700)	5400 (11900)	12450 (27400)	7100 (15700)	*16800 (37000)	10050 (22100)	*21800 (48000)	16000 (35300)	*18600 (41100)	*18600 (41100)	
-4.5 m (-14')	*9850 (21700)	6750 (14900)			*11050 (24400)	7300 (16000)	*14500 (32000)	10250 (22600)	*18550 (40900)	16350 (36100)	*23300 (51300)	*23300 (51300)	
-6.0 m (-19')	*8800 (19500)	*8800 (19500)					*10150 (22400)	*10150 (22400)	*13350 (29400)	*13350 (29400)			
Arm length 4000 mm (13'1") Bucket: 1.6 m ³ (2.09 cu.yd)													
7.5 m (24')	*5850 (12900)	5800 (12800)			*8550 (18800)	6550 (14400)							
6.0 m (19')	*5800 (12800)	4950 (11000)			*8800 (19400)	6450 (14200)							
4.5 m (14')	*6000 (13200)	4450 (9800)	7800 (17300)	4650 (10200)	*9350 (20600)	6250 (13700)	*10500 (23100)	8550 (18900)					
3.0 m (9')	*6300 (13900)	4150 (9200)	7700 (16900)	4500 (9900)	10000 (22000)	5950 (13100)	*11800 (26000)	8100 (17800)	*14700 (32500)	11550 (25500)	*20750 (45800)	18200 (40200)	
1.5 m (4')	*6850 (15100)	4050 (8900)	7500 (16600)	4350 (9600)	9700 (21400)	5700 (12500)	*12950 (28600)	7650 (16900)	*16750 (36900)	10800 (23800)	*23300 (51300)	16650 (36800)	
0.0 m (0')	7200 (15800)	4100 (9000)	7400 (16300)	4250 (9300)	9450 (20900)	5500 (12100)	12650 (27900)	7300 (16100)	*17800 (39200)	10250 (22600)	*20450 (45150)	15850 (35000)	
-1.5 m (-4')	7600 (16800)	4350 (9600)	7350 (16200)	4200 (9200)	9300 (20500)	5350 (11800)	12400 (27400)	7100 (15600)	17850 (39400)	9950 (21900)	*23250 (51300)	15600 (34400)	
-3.0 m (-9')	8450 (18600)	4850 (10700)			9300 (20500)	5300 (11700)	12300 (27200)	7000 (15500)	*17250 (38100)	9850 (21700)	*22850 (50400)	15650 (34500)	
-4.5 m (-14')	*9550 (21100)	5800 (12800)					*12050 (26600)	7100 (15700)	*15550 (34300)	10000 (22000)	*20200 (44500)	15950 (35100)	
-6.0 m (-19')	*9150 (20100)	7950 (17500)					*8250 (18100)	7400 (16300)	*12250 (27000)	10350 (22800)	*15850 (35000)	*15850 (35000)	

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

LIFTING CAPACITY

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2400 mm (7'10")													
7.5 m (24')	*11050 (24400)	8200 (18100)			*11050 (24300)	8700 (19200)							
6.0 m (19')	*10800 (23900)	6700 (14800)			*11400 (25100)	8550 (18800)	*13150 (28900)	12400 (27300)					
4.5 m (14')	9800 (21600)	5850 (12900)	10000 (22100)	6000 (13200)	*12300 (27100)	8200 (18000)	*15150 (33400)	11700 (25800)					
3.0 m (9')	9200 (20300)	5450 (12000)	9800 (21600)	5800 (12800)	13200 (29100)	7800 (17200)	*17200 (37900)	11000 (24300)					
1.5 m (4')	9050 (19900)	5300 (11700)	9600 (21200)	5650 (12400)	12850 (28300)	7500 (16600)	*18200 (40100)	10450 (23100)					
0.0 m (0')	9300 (20500)	5450 (12000)	9500 (20900)	5550 (12200)	12650 (27800)	7300 (16100)	18150 (40000)	10200 (22500)					
-1.5 m (-4')	10150 (22400)	5900 (13000)	9500 (20900)	5550 (12200)	12550 (27700)	7250 (16000)	*17400 (38300)	10150 (22400)	*18450 (40700)	16100 (35500)			
-3.0 m (-9')	*11200 (24700)	6950 (15300)			*12100 (26700)	7350 (16200)	*15600 (34300)	10300 (22700)	*19150 (42200)	16500 (36400)	*18450 (40700)	*18450 (40700)	
-4.5 m (-14')	*10500 (23100)	9300 (20600)					*12200 (26900)	10600 (23400)	*15150 (33400)	*15150 (33400)			
Arm length 2900 mm (9'6")													
7.5 m (24')	*10050 (22200)	7400 (16400)			*10100 (22300)	8750 (19300)							
6.0 m (19')	*9900 (21900)	6100 (13500)	*9800 (21600)	6100 (13400)	*10650 (23400)	8550 (18800)							
4.5 m (14')	9100 (20000)	5350 (11800)	9950 (22000)	5900 (13100)	*11600 (25600)	8150 (18000)	*14150 (31200)	11750 (25900)	*18550 (40900)	18550 (40900)			
3.0 m (9')	8500 (18800)	4950 (10900)	9700 (21400)	5700 (12600)	*12700 (28000)	7700 (17000)	*16300 (35900)	11000 (24200)					
1.5 m (4')	8350 (18400)	4800 (10600)	9500 (20900)	5500 (12100)	12750 (28100)	7350 (16300)	*17650 (38900)	10350 (22800)					
0.0 m (0')	8550 (18900)	4900 (10800)	9300 (20500)	5350 (11800)	12450 (27400)	7100 (15700)	*17900 (39500)	10000 (22000)					
-1.5 m (-4')	9250 (20400)	5300 (11700)	9250 (20400)	5300 (11700)	12300 (27100)	7000 (15400)	*17450 (38500)	9850 (21700)	*22650 (49900)	15750 (34700)			
-3.0 m (-9')	10700 (23600)	6150 (13500)			12350 (27200)	7050 (15500)	*16050 (35400)	9950 (22000)	*20350 (44800)	16000 (35200)	*22050 (48600)	*22050 (48600)	
-4.5 m (-14')	*10550 (23200)	7950 (17600)			*9350 (20600)	7300 (16100)	*13300 (29300)	10250 (22600)	*16700 (36800)	16150 (35600)	*19650 (43400)	*19650 (43400)	

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC400LC-8 (USA source, Standard Track)

Conditions: Boom: 7060 mm (23'2"), Bucket (SAE): 1.90 m³ (2.49 cu.yd), Shoes: 900 mm (35.5")

Bucket weight: 1325 kg (2920 lb), Lifting mode: ON

unit: kg (lb)

B	A		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3380 mm (11'1")												
7.6 m (25')	*6800 (15000)	*6800 (15000)										
6.1 m (20')	*6800 (15000)	5800 (12800)	*9350 (20600)	6400 (14100)	*10050 (22100)	8900 (19700)						
4.6 m (15')	*7000 (15400)	5150 (11400)	*9750 (21500)	6250 (13800)	*11000 (24300)	8550 (18900)	*13200 (29100)	12300 (27100)				
3.0 m (10')	*7400 (16300)	4800 (10600)	10100 (22200)	6000 (13300)	*12200 (26900)	8150 (17900)	*15400 (34000)	11600 (25500)	*21050 (46400)	18050 (39700)		
1.5 m (5')	8050 (17700)	4700 (10300)	9850 (21700)	5800 (12800)	13150 (29000)	7750 (17100)	*17100 (37700)	10900 (24100)	*18800 (41400)	16750 (36900)		
0 m (0)	8200 (18100)	4750 (10500)	9650 (21300)	5650 (12400)	12900 (28400)	7500 (16500)	*17750 (39100)	10500 (23100)	*18100 (40000)	16250 (35800)		
-1.5 m (-5')	8800 (19400)	5100 (11200)	9550 (21100)	5550 (12200)	12700 (28000)	7350 (16200)	*17550 (38700)	10300 (22700)	*23450 (51700)	16200 (35700)	*10650 (23400)	*10650 (23400)
-3.0 m (-10')	9950 (22000)	5800 (12800)	9600 (21200)	5600 (12300)	12700 (28000)	7350 (16200)	*16450 (36300)	10300 (22700)	*21400 (47200)	16350 (36100)	*19150 (42200)	*19150 (42200)
-4.6 m (-15')	*9800 (21700)	7200 (15900)			*10600 (23400)	7500 (16500)	*14150 (31200)	10500 (23200)	*18150 (40000)	16550 (36400)	*22850 (50400)	*22850 (50400)
-6.1 m (-20')	*8700 (19200)	*8700 (19200)					*9500 (21000)	*9500 (21000)	*12800 (28200)	*12800 (28200)		
Arm length 2900 mm (9'6")												
7.6 m (25')	*10100 (22300)	7950 (17600)			*10100 (22300)	8900 (19600)						
6.1 m (20')	*9950 (22000)	6500 (14400)			*10550 (23200)	8750 (19200)						
4.6 m (15')	9600 (21100)	5700 (12600)	*10050 (22200)	6100 (13500)	*11450 (25200)	8350 (18500)	*13850 (30600)	12000 (26500)	*18100 (39900)	*18100 (39900)		
3.0 m (10')	9000 (19800)	5300 (11700)	9950 (21900)	5900 (13000)	*12500 (27600)	7950 (17600)	*15950 (35200)	11300 (24900)				
1.5 m (5')	8800 (19400)	5150 (11300)	9750 (21500)	5700 (12600)	13050 (28700)	7600 (16800)	*17350 (38200)	10650 (23500)				
0 m (0)	9050 (19900)	5250 (11600)	9600 (21100)	5550 (12200)	12750 (28100)	7350 (16300)	*17650 (38900)	10300 (22700)				
-1.5 m (-5')	9750 (21500)	5650 (12500)	9550 (21000)	5500 (12200)	12650 (27800)	7250 (16000)	*17200 (37900)	10150 (22400)	*22400 (49400)	16150 (35600)		
-3.0 m (-10')	*10850 (23900)	6550 (14500)			*12250 (27000)	7300 (16100)	*15750 (34800)	10250 (22600)	*20100 (44300)	16350 (36100)	*22750 (50100)	*22750 (50100)
-4.6 m (-15')	*10550 (23300)	8600 (18900)					*12950 (28600)	10550 (23300)	*16400 (36100)	*16400 (36100)	*19400 (42700)	*19400 (42700)
Arm length 2400 mm (7'10")												
7.6 m (25')	*8050 (17700)	7950 (17600)			*11000 (24300)	8800 (19500)						
6.1 m (20')	*7850 (17300)	6550 (14500)			*11250 (24800)	8700 (19200)						
4.6 m (15')	*7900 (17500)	5800 (12800)	10200 (22500)	6150 (13500)	*12100 (26700)	8350 (18500)	*14800 (32700)	11950 (26400)	*19750 (43500)	18750 (41400)		
3.0 m (10')	*8250 (18200)	5400 (12000)	10000 (22100)	5950 (13200)	*13050 (28800)	8000 (17700)	*16800 (37000)	11300 (24900)				
1.5 m (5')	*8900 (19700)	5300 (11700)	9850 (21700)	5800 (12800)	13100 (28900)	7700 (17000)	*17850 (39300)	10750 (23700)				
0 m (0)	9300 (20500)	5450 (12000)	9700 (21400)	5700 (12600)	12900 (28400)	7500 (16600)	*17850 (39400)	10450 (23100)				
-1.5 m (-5')	10100 (22200)	5900 (13100)	9750 (21500)	5700 (12600)	12800 (28300)	7450 (16400)	*17100 (37700)	10400 (23000)	*19800 (43700)	16450 (36300)		
-3.0 m (-10')	*10150 (22400)	6900 (15300)			*11700 (25800)	7550 (16700)	*15250 (33700)	10550 (23300)	*18900 (41600)	16800 (37100)	*19250 (42500)	*19250 (42500)
-4.6 m (-15')	*9100 (20100)	*9100 (20100)					*11750 (25900)	10800 (23800)	*14750 (32600)	*14750 (32600)		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC400LC-8 (USA source, Standard Track)

Conditions: Boom: 7060 mm (23'2"), Bucket (SAE): 1.90 m³ (2.49 cu.yd), Shoes: 900 mm (35.5")

Bucket weight: 1325 kg (2920 lb), Lifting mode: ON

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 4000 mm (13'1")													
7.6 m (25')	*5850 (12900)	*5850 (12900)	*7800 (17100)	6600 (14600)									
6.1 m (20')	*5800 (12800)	5250 (11600)	*8700 (19100)	6550 (14400)									
4.6 m (15')	*5950 (13200)	4700 (10400)	*9200 (20300)	6350 (14000)	*10300 (22700)	8700 (19200)							
3.0 m (10')	*6300 (13900)	4400 (9700)	*9900 (21800)	6100 (13400)	*11550 (25500)	8250 (18200)	*14400 (31700)	11800 (26000)	*20200 (44600)	18550 (40900)			
1.5 m (5')	*6850 (15100)	4250 (9400)	9850 (21800)	5800 (12800)	*12700 (28000)	7800 (17200)	*16400 (36100)	11050 (24300)	*22700 (50100)	17000 (37500)			
0 m (0')	7500 (16600)	4300 (9500)	9650 (21300)	5600 (12400)	12900 (28400)	7500 (16500)	*17450 (38500)	10500 (23100)	*21600 (47600)	16200 (35700)			
-1.5 m (-5')	7950 (17600)	4550 (10100)	9500 (21000)	5500 (12100)	12650 (27900)	7250 (16000)	*17550 (38700)	10200 (22400)	*23950 (52800)	15900 (35100)	*11350 (25100)	*11350 (25100)	
-3.0 m (-10')	8900 (19600)	5100 (11300)	9500 (20900)	5450 (12100)	12550 (27700)	7200 (15900)	*16900 (37200)	10100 (22300)	*22450 (49500)	16000 (35300)	*19600 (43200)	*19600 (43200)	
-4.6 m (-15')	*9500 (20900)	6200 (13600)			*11650 (25700)	7300 (16100)	*15150 (33400)	10250 (22600)	*19700 (43500)	16300 (36000)	*25450 (56100)	*25450 (56100)	
-6.1 m (-20')	*9000 (19900)	8550 (18800)					*11700 (25800)	10600 (23400)	*15300 (33700)	*15300 (33700)	*19600 (43200)	*19600 (43200)	
Arm length 4800 mm (15'9")													
7.6 m (25')	*5700 (12600)	*5700 (12600)	*7650 (16900)	6500 (14400)									
6.1 m (20')	*5700 (12500)	5150 (11300)	*8550 (18900)	6450 (14200)									
4.6 m (15')	*5850 (12900)	4600 (10100)	*9050 (20000)	6250 (13700)	*10150 (22400)	8600 (19000)							
3.0 m (10')	*6150 (13600)	4300 (9400)	*9750 (21500)	5950 (13200)	*11400 (25200)	8150 (17900)	*14250 (31400)	11650 (25700)	*20100 (44300)	18400 (40600)			
1.5 m (5')	*6700 (14700)	4150 (9200)	9750 (21500)	5700 (12600)	*12550 (27700)	7700 (17000)	*16250 (35800)	10900 (24000)	*22550 (49800)	16900 (37200)			
0 m (0')	7400 (16300)	4200 (9300)	9550 (21000)	5500 (12100)	12750 (28100)	7350 (16200)	*17300 (38200)	10350 (22800)	*21450 (47300)	16050 (35400)			
-1.5 m (-5')	7850 (17300)	4450 (9800)	9400 (20700)	5350 (11800)	12500 (27600)	7150 (15800)	*17400 (38400)	10050 (22200)	*23800 (52400)	15800 (34900)	*11250 (24800)	*11250 (24800)	
-3.0 m (-10')	8750 (19300)	5000 (11000)	9350 (20700)	5350 (11800)	12450 (27500)	7100 (15600)	*16750 (36900)	10000 (22100)	*22300 (49100)	15900 (35100)	*19450 (42900)	*19450 (42900)	
-4.6 m (-15')	*9350 (20600)	6050 (13300)			*11500 (25300)	7200 (15900)	*15000 (33000)	10150 (22400)	*19550 (43100)	16200 (35700)	*25350 (55900)	*25350 (55900)	
-6.1 m (-20')	*8850 (19600)	8400 (18500)					*11550 (25400)	10500 (23200)	*15150 (33400)	*15150 (33400)	*19450 (42800)	*19450 (42800)	

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC400LC-8 (USA source, Variable Gauge)

Conditions: Boom: 7060 mm (23'2"), Bucket (SAE): 1.90 m³ (2.49 cu.yd), Shoes: 900 mm (35.5")

Bucket weight: 1325 kg (2920 lb), Lifting mode: ON

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3380 mm (11'1")													
7.6 m (25')	*6800 (15000)	*6800 (15000)											
6.1 m (20')	*6800 (15000)	6300 (13900)	*9350 (20600)	6950 (15300)	*10050 (22100)	9650 (21200)							
4.6 m (15')	*7000 (15400)	5650 (12400)	*9750 (21500)	6800 (15000)	*11000 (24300)	9250 (20400)	*13200 (29100)	*13200 (29100)					
3.0 m (10')	*7400 (16300)	5300 (11600)	*10350 (22800)	6550 (14500)	*12200 (26900)	8850 (19500)	*15400 (34000)	12600 (27700)	*21050 (46400)	19700 (43400)			
1.5 m (5')	*8100 (17800)	5150 (11400)	10100 (22300)	6350 (14000)	*13200 (29100)	8450 (18700)	*17100 (37700)	11900 (26300)	*18800 (41400)	18400 (40500)			
0 m (0')	8450 (18600)	5250 (11600)	9900 (21900)	6150 (13600)	13200 (29100)	8200 (18100)	*17750 (39100)	11450 (25300)	*18100 (40000)	17850 (39400)			
-1.5 m (-5')	9050 (19900)	5600 (12300)	9850 (21700)	6100 (13400)	13050 (28800)	8050 (17700)	*17550 (38700)	11250 (24800)	*23450 (51700)	17800 (39300)	*10650 (23400)	*10650 (23400)	
-3.0 m (-10')	*10000 (22100)	6350 (14000)	*9700 (21400)	6150 (13500)	*12800 (28200)	8050 (17700)	*16450 (36300)	11300 (24900)	*21400 (47200)	18000 (39700)	*19150 (42200)	*19150 (42200)	
-4.6 m (-15')	*9800 (21700)	7900 (17400)			*10600 (23400)	8200 (18100)	*14150 (31200)	11500 (25300)	*18150 (40000)	*18150 (40000)	*22850 (50400)	*22850 (50400)	
-6.1 m (-20')	*8700 (19200)	*8700 (19200)					*9500 (21000)	*9500 (21000)	*12800 (28200)	*12800 (28200)			
Arm length 2900 mm (9'6")													
7.6 m (25')	*10100 (22300)	8150 (18000)			*10100 (22300)	9100 (20100)							
6.1 m (20')	*9950 (22000)	6700 (14700)			*10550 (23200)	8900 (19700)							
4.6 m (15')	9850 (21700)	5850 (12900)	*10050 (22200)	6250 (13800)	*11450 (25200)	8550 (18900)	*13850 (30600)	12300 (27100)	*18100 (39900)	*18100 (39900)			
3.0 m (10')	9250 (20300)	5450 (12000)	10200 (22500)	6050 (13300)	*12500 (27600)	8150 (18000)	*15950 (35200)	11550 (25500)					
1.5 m (5')	9050 (20000)	5300 (11600)	10000 (22000)	5850 (12900)	13350 (29400)	7800 (17200)	*17350 (38200)	10950 (24100)					
0 m (0')	9300 (20500)	5400 (11900)	9850 (21700)	5700 (12600)	13100 (28900)	7550 (16700)	*17650 (38900)	10550 (23300)					
-1.5 m (-5')	10050 (22100)	5800 (12800)	9800 (21600)	5650 (12500)	12950 (28600)	7450 (16400)	*17200 (37900)	10400 (23000)	*22400 (49400)	16550 (36400)			
-3.0 m (-10')	*10850 (23900)	6750 (14900)			*12250 (27000)	7500 (16500)	*15750 (34800)	10500 (23200)	*20100 (44300)	16750 (36900)	*22750 (50100)	*22750 (50100)	
-4.6 m (-15')	*10550 (23300)	8800 (19400)					*12950 (28600)	10800 (23800)	*16400 (36100)	*16400 (36100)	*19400 (42700)	*19400 (42700)	
Arm length 2400 mm (13'1")													
7.6 m (25')	*8050 (17700)	*8050 (17700)			*11000 (24300)	9000 (19900)							
6.1 m (20')	*7850 (17300)	6750 (14800)			*11250 (24800)	8900 (19600)							
4.6 m (15')	*7900 (17500)	5950 (13100)	10450 (23100)	6300 (13900)	*12100 (26700)	8550 (18900)	*14800 (32700)	12200 (26900)	*19750 (43500)	*19150 (42200)			
3.0 m (10')	*8250 (18200)	5550 (12300)	10250 (22700)	6150 (13500)	*13050 (28800)	8200 (18100)	*16800 (37000)	11550 (25400)					
1.5 m (5')	*8900 (19700)	5450 (12000)	10100 (22300)	5950 (13100)	13450 (29700)	7900 (17400)	*17850 (39300)	11000 (24300)					
0 m (0')	9550 (21000)	5600 (12400)	10000 (22000)	5850 (12900)	13250 (29200)	7700 (17000)	*17850 (39400)	10700 (23600)					
-1.5 m (-5')	10350 (22800)	6100 (13400)	10000 (22000)	5850 (13000)	13150 (29000)	7650 (16900)	*17100 (37700)	10650 (23500)	*19800 (43700)	16850 (37100)			
-3.0 m (-10')	*10150 (22400)	7100 (15600)			*11700 (25800)	7750 (17100)	*15250 (33700)	10800 (23800)	*18900 (41600)	17000 (37500)	*19250 (42500)	*19250 (42500)	
-4.6 m (-15')	*9100 (20100)	*9100 (20100)					*11750 (25900)	11050 (24400)	*14750 (32600)	*14750 (32600)			

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC400LC-8 (USA source, Variable Gauge)

Conditions: Boom: 7060 mm (23'2"), Bucket (SAE): 1.90 m³ (2.49 cu.yd), Shoes: 900 mm (35.5")

Bucket weight: 1325 kg (2920 lb), Lifting mode: ON

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 4800 mm (15'9")													
7.6 m (25')	*5700 (12600)	*5700 (12600)	*7650 (16900)	6650 (14700)									
6.1 m (20')	*5700 (12500)	5250 (11600)	*8550 (18900)	6600 (14500)									
4.6 m (15')	*5850 (12900)	4700 (10400)	*9050 (20000)	6400 (14100)	*10150 (22400)	8800 (19400)							
3.0 m (10')	*6150 (13600)	4400 (9700)	*9750 (21500)	6100 (13500)	*11400 (25200)	8300 (18400)	*14250 (31400)	11900 (26300)	*20100 (44300)	18800 (41500)			
1.5 m (5')	*6700 (14700)	4300 (9400)	10000 (22100)	5850 (12900)	*12550 (27700)	7900 (17400)	*16250 (35800)	11150 (24600)	*22550 (49800)	17250 (38100)			
0 m (0')	*7500 (16500)	4350 (9500)	9800 (21600)	5650 (12500)	13100 (28800)	7550 (16600)	*17300 (38200)	10600 (23400)	*21450 (47300)	16450 (36300)			
-1.5 m (-5')	8050 (17800)	4600 (10100)	9650 (21300)	5500 (12200)	12850 (28300)	7350 (16200)	*17400 (38400)	10300 (22700)	*23800 (52400)	16200 (35700)	*11250 (24800)	*11250 (24800)	
-3.0 m (-10')	9000 (19800)	5150 (11300)	9650 (21200)	5500 (12100)	12800 (28200)	7300 (16100)	*16750 (36900)	10250 (22600)	*22300 (49100)	16300 (35900)	*19450 (42900)	*19450 (42900)	
-4.6 m (-15')	*9350 (20600)	6200 (13700)			*11500 (25300)	7400 (16300)	*15000 (33000)	10400 (23000)	*19550 (43100)	16600 (36600)	*25350 (55900)	*25350 (55900)	
-6.1 m (-20')	*8850 (19600)	8600 (19000)					*11550 (25400)	*10650 (23400)	*15150 (33400)	*15150 (33400)	*19450 (42800)	*19450 (42800)	
Arm length 4000 mm (13'1")													
7.6 m (25')	*5850 (12900)	*5850 (12900)	*7800 (17100)	6800 (14900)									
6.1 m (20')	*5800 (12800)	5400 (11900)	*8700 (19100)	6700 (14800)									
4.6 m (15')	*5950 (13200)	4850 (10700)	*9200 (20300)	6500 (14300)	*10300 (22700)	8900 (19600)							
3.0 m (10')	*6300 (13900)	4500 (10000)	*9900 (21800)	6250 (13800)	*11550 (25500)	8450 (18600)	*14400 (31700)	12050 (26500)	*20200 (44600)	18950 (41800)			
1.5 m (5')	*6850 (15100)	4400 (9700)	10150 (22300)	6000 (13200)	*12700 (28000)	8000 (17700)	*16400 (36100)	11300 (24900)	*22700 (50100)	17400 (38400)			
0 m (0')	*7650 (16900)	4450 (9800)	9900 (21800)	5750 (12700)	13200 (29100)	7650 (16900)	*17450 (38500)	10750 (23700)	*21600 (47600)	16600 (36600)			
-1.5 m (-5')	8200 (18100)	4700 (10400)	9750 (21500)	5650 (12400)	12950 (28600)	7450 (16400)	*17550 (38700)	10450 (23000)	*23950 (52800)	16300 (35900)	*11350 (25100)	*11350 (25100)	
-3.0 m (-10')	9150 (20100)	5250 (11600)	9750 (21500)	5600 (12400)	12900 (28400)	7400 (16300)	*16900 (37200)	10400 (22900)	*22450 (49500)	16400 (36200)	*19600 (43200)	*19600 (43200)	
-4.6 m (-15')	*9500 (20900)	6350 (14000)			*11650 (25700)	7500 (16500)	*15150 (33400)	10500 (23200)	*19700 (43500)	16700 (36800)	*25450 (56100)	*25450 (56100)	
-6.1 m (-20')	*9000 (19900)	8750 (19300)					*11700 (25800)	*10750 (23700)	*15300 (33700)	*15300 (33700)	*19600 (43200)	*19600 (43200)	

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC400LC-7

Conditions: Boom: 7060 mm (23'2"), Bucket (SAE): 1.90 m³ (2.49 cu.yd), Shoes: 700 mm (28") unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3380 mm (11'1")													
7.5 m (24')		*5750 (12600)	*5750 (12600)	*6700 (14700)	6500 (14200)								
6.0 m (19')		*5750 (12600)	5350 (11700)	*8400 (18500)	6450 (14100)	*9150 (20100)	8950 (19700)						
4.5 m (14')		*5950 (13000)	4800 (10500)	*8850 (19500)	6250 (13700)	*10100 (22100)	8600 (18900)	*12050 (26500)	*12050 (26500)				
3.0 m (9')		*6250 (13700)	4500 (9900)	*9400 (20700)	6050 (13300)	*11100 (24400)	8200 (17900)	*13900 (30600)	11600 (25400)	*19450 (42800)	17950 (39500)		
1.5 m (4')		6800 (14900)	4400 (9600)	9850 (21700)	5850 (12800)	*12000 (26400)	7800 (17100)	*15400 (33900)	10900 (23900)	*20800 (45800)	16600 (36600)		
0.0 m (0')		7650 (16800)	4500 (9800)	9700 (21300)	5650 (12400)	*12500 (27500)	7500 (16400)	*16150 (35500)	10400 (22900)	*19800 (43600)	16050 (35300)		
-1.5 m (-4')		8300 (18200)	4800 (10500)	9600 (21000)	5550 (12200)	*12500 (27400)	7300 (16100)	*16050 (35300)	10200 (22400)	*21500 (47300)	15900 (35000)	*12950 (28500)	*12950 (28500)
-3.0 m (-9')		8700 (19100)	5400 (11900)	*9050 (19900)	5600 (12200)	*11750 (25800)	7300 (16000)	*15050 (33100)	10200 (22400)	*19700 (43400)	16050 (35300)	*19000 (41800)	*19000 (41800)
-4.5 m (-14')		*8550 (18700)	6650 (14500)			*9900 (21800)	7450 (16300)	*13000 (28600)	10400 (22800)	*16750 (36800)	16350 (36000)	*21750 (47900)	*21750 (47900)
-6.0 m (-19')		*7700 (16900)	*7700 (16900)					*9050 (19800)	*9050 (19800)	*11950 (26200)	*11950 (26200)		
Arm length 4000 mm (13'1")													
7.5 m (24')		*4900 (10800)	*4900 (10800)	*7550 (16500)	6650 (14600)								
6.0 m (19')		*4900 (10700)	4850 (10600)	*7800 (17100)	6550 (14400)								
4.5 m (14')		*5050 (11000)	4350 (9600)	*8350 (18300)	6350 (13900)	*9350 (20600)	8700 (19100)						
3.0 m (9')		*5300 (11600)	4100 (9000)	*8950 (19700)	6100 (13300)	*10500 (23000)	8250 (18100)	*12950 (28500)	11750 (25900)	*17750 (39100)	*17750 (39100)		
1.5 m (4')		*5750 (12600)	4000 (8700)	*9550 (2100)	5800 (12800)	*11500 (25300)	7800 (17100)	*14700 (32300)	11000 (24100)	*20800 (45800)	16900 (37200)		
0.0 m (0')		*6400 (14000)	4050 (8900)	9650 (21200)	5600 (12300)	*12200 (26800)	7450 (16300)	*15750 (34700)	10400 (22900)	*21900 (48200)	16050 (35300)	*8550 (18800)	*8550 (18800)
-1.5 m (-4')		*7400 (16300)	4300 (9400)	9500 (20800)	5450 (12000)	*12400 (27300)	7250 (15900)	*16000 (35200)	10100 (22200)	*21850 (48100)	15750 (34600)	*12500 (27500)	*12500 (27500)
-3.0 m (-9')		*8200 (18000)	4750 (10400)	9450 (20700)	5450 (11900)	*12000 (26400)	7150 (15700)	*15400 (33900)	10000 (22000)	*20550 (45300)	15750 (34600)	*17350 (38100)	*17350 (38100)
-4.5 m (-14')		*8200 (18000)	5700 (12500)			*10700 (23500)	7200 (15800)	*13850 (30400)	10100 (22200)	*18150 (39900)	15950 (35100)	*23400 (51500)	*23400 (51500)
-6.0 m (-19')		*7850 (17200)	7600 (16700)					*10700 (23500)	10250 (22500)	*14150 (31100)	*14150 (31100)	*18550 (40800)	*18550 (40800)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

LIFTING CAPACITY

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2400 mm (9'6")													
7.5 m (24')	*9700 (21300)	8000 (17600)			*9850 (21600)	8900 (19500)							
6.0 m (19')	*9500 (20800)	6600 (14500)			*10300 (22600)	8750 (19200)							
4.5 m (14')	*9450 (20800)	5850 (12800)	*9650 (21200)	6150 (13500)	*11100 (24300)	8400 (18500)	*13500 (29700)	12000 (26300)	*18400 (40500)	*18400 (40500)			
3.0 m (9')	9150 (20100)	5450 (11900)	*10050 (22000)	6000 (13100)	*11950 (26200)	8050 (17600)	*14900 (32800)	10950 (24100)					
1.5 m (4')	9000 (19800)	5300 (11600)	9850 (21700)	5850 (12800)	*12550 (27600)	7700 (16900)	*16150 (35600)	10650 (23400)					
0.0 m (0')	9250 (20400)	5450 (11900)	9750 (21400)	5700 (12500)	*12750 (28000)	7500 (16500)	*16300 (35900)	10400 (22800)	*15150 (33400)	*15150 (33400)			
-1.5 m (-4')	*9900 (21800)	5900 (12900)			*12250 (27000)	7450 (16300)	*15600 (34400)	10300 (22700)	*19950 (43900)	16100 (35400)			
-3.0 m (-9')	*9850 (21600)	6900 (15100)			*10850 (23900)	7500 (16500)	*14000 (30700)	10450 (22900)	*17550 (38600)	16400 (36000)	*20600 (45400)	*20600 (45400)	
-4.5 m (-14')	*9300 (20400)	9100 (19900)					*10700 (23500)	10500 (23100)	*13700 (30100)	*13700 (30100)			
Arm length 2900 mm (9'6")													
7.5 m (24')	*8800 (19400)	7200 (15800)			*9100 (19900)	8950 (19700)							
6.0 m (19')	*8700 (19100)	6000 (13100)	*8800 (19300)	6250 (13700)	*9600 (21100)	8750 (19200)							
4.5 m (14')	*8700 (19100)	5300 (11700)	*9150 (20100)	6150 (13400)	*10450 (23000)	8400 (18500)	*12650 (27800)	12100 (26600)	*16850 (37100)	*16850 (37100)			
3.0 m (9')	8450 (18500)	4950 (10900)	*9600 (21100)	5900 (13000)	*11400 (25100)	8000 (17600)	*14400 (31700)	11300 (24800)					
1.5 m (4')	8300 (18200)	4850 (10600)	9750 (21400)	5700 (12500)	*12150 (26700)	7600 (16700)	*15650 (34400)	10600 (23300)					
0.0 m (0')	8500 (18700)	4950 (10800)	9600 (21100)	5550 (12200)	*12500 (27500)	7350 (16100)	*16100 (35400)	10200 (22500)	*20500 (45100)	15750 (34600)			
-1.5 m (-4')	9200 (20100)	5300 (11600)	9550 (20900)	5500 (12100)	*12250 (27000)	7250 (15900)	*15700 (34600)	10100 (22100)	*20650 (45500)	15750 (34600)	*14800 (32600)	*14800 (32600)	
-3.0 m (-9')	*9400 (20700)	6100 (13400)			*11250 (24700)	7300 (16000)	*14400 (31700)	10150 (22300)	*18500 (40700)	15950 (35100)	*22800 (50200)	*22800 (50200)	
-4.5 m (-14')	*9200 (20200)	7800 (17100)					*11900 (26200)	10400 (22900)	*15150 (33300)	*15150 (33300)	*18700 (41100)	*18700 (41100)	
-6.0 m (-19')	*7850 (17200)	*7850 (17200)											

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC450-8

Conditions: Boom: 7060 mm (23'2"), Bucket (SAE): 1.90 m³ (2.49 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3380 mm (11'1")													
7.5 m (24')		*6000 (13200)	5850 (12900)										
6.0 m (19')		*6000 (13200)	4850 (10700)	8750 (19300)	5700 (12600)	*9600 (21200)	8200 (18100)						
4.5 m (14')		*6200 (13600)	4250 (9400)	8550 (18900)	5500 (12200)	*10600 (23300)	7800 (17200)	*12800 (28200)	11500 (25400)				
3.0 m (9')		6350 (14000)	3950 (8700)	8300 (18300)	5300 (11600)	11400 (25100)	7350 (16200)	*14950 (33000)	10650 (23500)	*20900 (46100)	16850 (37200)		
1.5 m (4')		6200 (13700)	3800 (8400)	8000 (17700)	5050 (11100)	10900 (24000)	6900 (15300)	15850 (34900)	9950 (21900)	*17650 (38900)	15450 (34100)		
0.0 m (0')		6350 (14000)	3850 (8500)	7800 (17200)	4850 (10700)	10550 (23300)	6600 (14600)	15300 (33700)	9450 (20800)	*17800 (39200)	14950 (32900)		
-1.5 m (-4')		6800 (15000)	4150 (9200)	7700 (17000)	4750 (10500)	10400 (22900)	6450 (14200)	15050 (33200)	9250 (20400)	*22950 (50600)	14950 (32900)		
-3.0 m (-9')		7750 (17100)	4800 (10600)	7750 (17100)	4750 (10500)	10400 (22900)	6450 (14200)	15100 (33300)	9300 (20500)	*20950 (46200)	15100 (33300)	*21700 (47800)	*21700 (47800)
-4.5 m (-14')		*9100 (20100)	6050 (13400)			*10350 (22800)	6600 (14600)	*13750 (30400)	9500 (20900)	*17700 (39100)	15450 (34100)	*22350 (49300)	*22350 (49300)
-6.0 m (-19')		*8050 (17700)	*8050 (17700)					*9450 (20800)	*9450 (20800)	*12600 (27700)	*12600 (27700)		

PC450LC-8

Conditions: Boom: 7060 mm (23'2"), Bucket (SAE): 1.90 m³ (2.49 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3380 mm (11'1")													
7.5 m (24')		*6000 (13200)	5950 (13200)										
6.0 m (19')		*6000 (13200)	4950 (10900)	*8850 (19500)	5800 (12800)	*9600 (21200)	8350 (18400)						
4.5 m (14')		*6200 (13600)	4350 (9600)	*9250 (20400)	5650 (12400)	*10600 (23300)	7950 (17500)	*12800 (28200)	11700 (25800)				
3.0 m (9')		*6550 (14500)	4000 (8900)	9400 (20800)	5400 (11900)	*11750 (25900)	7500 (16500)	*14950 (33000)	10850 (23900)	*20900 (46100)	17150 (37800)		
1.5 m (4')		7150 (15700)	3900 (8600)	9150 (20200)	5150 (11300)	12450 (27400)	7050 (15500)	*16650 (36700)	10100 (22300)	*17650 (38900)	15750 (34700)		
0.0 m (0')		7300 (16100)	3950 (8700)	8950 (19700)	4950 (10900)	12100 (26700)	6750 (14900)	*17300 (38200)	9650 (21200)	*17800 (39200)	15200 (33500)		
-1.5 m (-4')		7800 (17200)	4250 (9400)	8850 (19500)	4850 (10700)	11900 (26300)	6600 (14500)	*17100 (37700)	9450 (20800)	*22950 (50600)	15200 (33500)		
-3.0 m (-9')		8900 (19600)	4900 (10800)	8850 (19600)	4900 (10800)	11900 (26300)	6550 (14500)	*16000 (35300)	9450 (20900)	*20950 (46200)	15400 (33900)	*21700 (47800)	*21700 (47800)
-4.5 m (-14')		*9100 (20100)	6200 (13600)			*10350 (22800)	6750 (14900)	*13750 (30400)	9650 (21300)	*17700 (39100)	15750 (34700)	*22350 (49300)	*22350 (49300)
-6.0 m (-19')		*8050 (17700)	*8050 (17700)					*9450 (20800)	*9450 (20800)	*12600 (27700)	*12600 (27700)		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC450-8 (UK source)

Conditions: Boom: 7060 mm, Bucket (SAE): 1.90 m³, Shoes: 600 mm

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2400 mm											
	6.0 m	9700	6800	*10950	8750						
	4.5 m	8550	5900	*11800	8400	*14600	12150				
	3.0 m	7950	5450	11600	8000	*16600	11450				
	1.5 m	7800	5300	11250	7700	16150	10900				
	0.0 m	8050	5450	11000	7500	15850	10600				
	-1.5 m	8800	5950	10950	7400	15800	10600	*17750	17100		
	-3.0 m	10400	7050	11050	7500	*15100	10700	*18650	17300	*17750	*17750
	-4.5 m	*10000	9600			*11750	11050	*14650	*14650		
Arm length 2900 mm											
	6.0 m	8850	6150	*10200	8750						
	4.5 m	7850	5400	*11100	8350	*13600	12250	*18150	*18150		
	3.0 m	7350	4950	11550	7950	*15700	11450				
	1.5 m	7150	4800	11100	7550	16050	10800				
	0.0 m	7350	4900	10850	7300	15650	10400				
	-1.5 m	7950	5300	10700	7200	15550	10300	*22200	16750		
	-3.0 m	9250	6200	10750	7250	15550	10400	*19850	17000	*21350	*21350
	-4.5 m	*10050	8200	*9100	7450	*12800	10650	*16250	*16250	*19250	*19250

PC450-7E0 (UK source)

Conditions: Boom: 7060 mm, Bucket (SAE): 1.90 m³, Shoes: 600 mm

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3400 mm											
	6.0 m	*6400	5400	*9700	8950						
	4.5 m	*6600	4800	*10700	8550	*12900	12550				
	3.0 m	6600	4450	11700	8100	*15100	11750	*21100	18650		
	1.5 m	6500	4350	11250	7700	16350	11050	*16250	*16250		
	0.0 m	6650	4400	10950	7400	15800	10550	*16300	*16300		
	-1.5 m	7100	4750	10800	7250	15600	10400	*22000	16800		
	-3.0 m	8100	5400	10750	7250	15650	10400	*21200	16950	*19850	*19850
	-4.5 m	*9300	6800	*10500	7400	*13950	10600	*18000	17100	*22750	*22750
Arm length 4000 mm											
	6.0 m	*5800	5350								
	4.5 m	*6000	4800	*10500	9150						
	3.0 m	*6300	4500	*11750	8650	*14700	12400	*20750	19650		
	1.5 m	6400	4400	11800	8200	*16700	11600	*23250	18050		
	0.0 m	6500	4450	11400	7850	16300	11050	*20450	17200		
	-1.5 m	6850	4700	11150	7650	15950	10700	*23250	16900	*11150	*11150
	-3.0 m	7650	5200	11100	7550	15850	10650	*22800	16950	*19200	*19200
	-4.5 m	9100	6250	11150	7650	*15500	10750	*20100	17250	*24850	*24850
Arm length 4800 mm											
	6.0 m	*4400	*4400								
	4.5 m	*4500	4050								
	3.0 m	*4700	3800	*10700	8750	*13100	12700	*17750	*17750		
	1.5 m	*5050	3700	11850	8250	*15450	11800	*22150	18600		
	0.0 m	*5600	3750	11400	7800	16350	11050	*23700	17350		
	-1.5 m	5850	3900	11050	7500	15850	10600	*23050	16750	*10800	*10800
	-3.0 m	6400	4300	10900	7350	15600	10400	*23650	16550	*16100	*16100
	-4.5 m	7400	5000	10850	7350	15650	10400	*21700	16750	*22650	*22650

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC450-7

Conditions: Boom: 7060 mm (23'2"), Bucket (SAE): 1.90 m³ (2.49 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3380 mm (11'1")													
7.5 m (24')		*5550 (12100)	*5550 (12100)	*6600 (14500)	5900 (12900)								
6.0 m (19')		*5550 (12100)	4750 (10400)	*8800 (19300)	5850 (12900)	*9600 (21100)	8400 (18500)						
4.5 m (14')		*5750 (12600)	4200 (9200)	8750 (19300)	5700 (12500)	*10650 (23400)	8050 (17600)	*12800 (28100)	11850 (26000)				
3.0 m (9')		*6100 (13400)	3900 (8500)	8500 (18700)	5450 (12000)	11700 (25700)	7600 (16600)	*14800 (32600)	10950 (24100)	*20800 (45800)	17200 (37800)		
1.5 m (4')		6200 (13600)	3800 (8300)	8250 (18100)	5250 (11400)	11200 (24600)	7150 (15700)	16150 (35500)	10200 (22400)	*23400 (51500)	15700 (34600)		
0.0 m (0')		6350 (13900)	3900 (8500)	8050 (17700)	5050 (11000)	10850 (23800)	6850 (15000)	15600 (34300)	9650 (21200)	*23050 (50700)	15050 (33100)		
-1.5 m (-4')		6800 (14900)	4200 (9100)	7950 (17400)	4950 (10800)	10650 (23400)	6650 (14600)	15300 (33700)	9450 (20700)	*23000 (50700)	14900 (32800)	*15050 (33100)	*15050 (33100)
-3.0 m (-9')		7700 (16900)	4800 (10500)	7950 (17500)	4950 (10900)	10650 (23400)	6650 (14500)	15300 (33700)	9450 (20700)	*21050 (46400)	15050 (33100)	*22200 (48800)	*22200 (48800)
-4.5 m (-14')		*8900 (19600)	6000 (13100)			*10450 (23000)	6800 (14900)	*13800 (30400)	9650 (21200)	*17850 (39300)	15450 (34000)	*23300 (51200)	*23300 (51200)
-6.0 m (-19')		*8000 (17600)	*8000 (17600)					*9350 (20500)	*9350 (20500)	*12650 (27900)	*12650 (27900)		

PC450LC-7

Conditions: Boom: 7060 mm (23'2"), Bucket (SAE): 1.90 m³ (2.49 cu.yd), Shoes: 600 mm (24") unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3380 mm (11'1")													
7.5 m (24')		*5550 (12100)	*5550 (12100)	*6600 (14500)	6000 (13200)								
6.0 m (19')		*5550 (12100)	4850 (10600)	*8800 (19300)	6000 (13100)	*9600 (21100)	8550 (18800)						
4.5 m (14')		*5750 (12600)	4300 (9400)	*9300 (20400)	5800 (12700)	*10650 (23400)	8200 (17900)	*12800 (28100)	12000 (26400)				
3.0 m (9')		*6100 (13400)	4000 (8700)	9650 (21200)	5550 (12200)	*11750 (25800)	7700 (16900)	*14800 (32600)	11150 (24500)	*20800 (45800)	17450 (38400)		
1.5 m (4')		6700 (14700)	3900 (8500)	9400 (20700)	5350 (11700)	*12700 (27900)	7300 (16000)	*16450 (36100)	10350 (22800)	*23400 (51500)	16000 (35100)		
0.0 m (0')		7250 (15900)	4000 (8700)	9200 (20200)	5150 (11300)	12400 (27300)	6950 (15300)	*17250 (37900)	9850 (21600)	*23050 (50700)	15350 (33700)		
-1.5 m (-4')		7750 (17100)	4300 (9300)	9100 (19900)	5050 (11000)	12200 (26800)	6800 (14900)	*17100 (37600)	9600 (21100)	*23000 (50700)	15200 (33400)	*15050 (33100)	*15050 (33100)
-3.0 m (-9')		8800 (19300)	4900 (10700)	9100 (20000)	5050 (11100)	12200 (26800)	6750 (14800)	*16050 (35300)	9600 (21100)	*21050 (46400)	15350 (33700)	*22200 (48800)	*22200 (48800)
-4.5 m (-14')		*8900 (19600)	6100 (13400)			*10450 (23000)	6950 (15200)	*13800 (30400)	9800 (21600)	*17850 (39300)	15700 (34600)	*23300 (51200)	*23300 (51200)
-6.0 m (-19')		*8000 (17600)	*8000 (17600)					*9350 (20500)	*9350 (20500)	*12650 (27900)	*12650 (27900)		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC450LC-8 (UK source)

Conditions: Boom: 7060 mm, Bucket (SAE): 1.90 m³, Shoes: 600 mm

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2400 mm											
6.0 m		*10350	6850	*10950	8850						
4.5 m		9650	6000	*11800	8500	*14600	12300				
3.0 m		9050	5550	*12800	8100	*16600	11600				
1.5 m		8850	5400	12750	7800	*17700	11050				
0.0 m		9150	5550	12550	7600	*17700	10750				
-1.5 m		10000	6050	12450	7550	*16900	10750	*17750	17350		
-3.0 m		*10700	7200	*11600	7600	*15100	10850	*18650	17550	*17550	*17750
-4.5 m		*10000	9750			*11750	11100	*14650	*14650		
Arm length 2900 mm											
6.0 m		*9450	6250	*10200	8850						
4.5 m		8900	5450	*11100	8500	*13600	12400	*18150	*18150		
3.0 m		8350	5050	*12200	8050	*15700	11600				
1.5 m		8150	4900	12650	7650	*17150	10950				
0.0 m		8400	5000	12350	7400	*17450	10550				
-1.5 m		9100	5400	12250	7300	*17000	10450	*22200	17000		
-3.0 m		*10300	6300	*12000	7350	*15550	10550	*19850	17200	*21350	*21350
-4.5 m		*10050	8300	*9100	7600	*12800	10800	*16250	*16250	*19250	*19250
Arm length 3380 mm											
6.0 m		*6400	5500	*9700	9050						
4.5 m		*6600	4850	*10700	8650	*12900	12700				
3.0 m		*7000	4550	*11850	8200	*15100	11900	*21100	18900		
1.5 m		7400	4400	12800	7800	*16850	11200	*16250	*16250		
0.0 m		7550	4500	12500	7500	*17550	10700	*16300	*16300		
-1.5 m		8100	4800	12300	7350	*17300	10550	*22000	17000		
-3.0 m		9250	5500	12300	7350	*16250	10550	*21200	17200	*19850	*19850
-4.5 m		*9300	6900	*10500	7500	*13950	10750	*18000	17350	*22750	*22750
Arm length 4000 mm											
6.0 m		*5800	5400								
4.5 m		*6000	4850	*10500	9250						
3.0 m		*6300	4550	*11750	8750	*14700	12550	*20750	*19700		
1.5 m		*6850	4450	*12950	8350	*16700	11750	*23250	18250		
0.0 m		7350	4500	12950	8000	*17750	11200	*20450	17400		
-1.5 m		7800	4750	12700	7750	*17900	10900	*23250	17100	*11150	*11500
-3.0 m		8650	5300	12600	7650	*17200	10800	*22800	17200	*19200	*19200
-4.5 m		*9500	6350	*12000	7750	*15500	10900	*20100	17450	*24850	*24850
Arm length 4800 mm											
6.0 m		*4400	*4400								
4.5 m		*4500	4150								
3.0 m		*4700	3900	*10700	8850	*13100	12850	*17750	*17750		
1.5 m		*5050	3750	*12050	8350	*15450	11950	*22150	18800		
0.0 m		*5600	3800	12900	7950	*17000	11200	*23700	17550		
-1.5 m		*6350	4000	12600	7650	*17600	10750	*23050	16950	*10800	*10800
-3.0 m		7300	4350	12400	7450	*17450	10550	*23650	16800	*16100	*16100
-4.5 m		8450	5100	12400	7450	*16300	10550	*21700	16950	*22650	*22650

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC450LC-8 HD (UK source)

Conditions: Boom: 7060 mm, Bucket (SAE): 1.90 m³, Shoes: 600 mm

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2400 mm											
6.0 m		*10800	7600	*11650	9350	*13300	*13300				
4.5 m		10600	6650	*12400	9050	*14950	13100	*19600	*19600		
3.0 m		9950	6200	*13250	8700	*16550	12200	*23350	19000		
1.5 m		9800	6050	13500	8350	*17750	11650	*16300	*16300		
0.0 m		10150	6250	13300	8150	*17850	11350	*20550	17600		
-1.5 m		11100	6850	*13150	8050	*16900	11250	*21850	17700	*14400	*14400
-3.0 m		*10850	8150	*10950	8200	*14700	11400	*18650	18050	*22250	*22250
-4.5 m		*9700	*9700			*10200	*10200	*13500	*13500		
Arm length 2900 mm											
6.0 m		*10250	7500	*10850	9350						
4.5 m		*10300	6550	*11700	9000	*14000	13150	*18200	*18200	*28550	*28550
3.0 m		9750	12650	12650	8600	*15850	12350	*22000	19350		
1.5 m		9550	5850	*13400	8250	*17200	11600	*24100	17950		
0.0 m		9850	6000	13100	7950	*17650	11150	*24050	17400	*9350	*9350
-1.5 m		10750	6500	13000	7850	*17050	11000	*22600	17350	*17850	*17850
-3.0 m		11450	7750	*11700	7900	*15350	11100	*19850	17600	*25450	*25450
-4.5 m		*11100	10550			*11600	11150	15400	*15400	*18900	*18900

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC600-8, PC600-8R

Conditions: Boom: 7660 mm (25'2"), Bucket (SAE): 2.70 m³ (3.53 cu.yd), Shoes: 600 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*6950 (15300)	*6950 (15300)										
6.1 m (20')		*6850 (15100)	*6850 (15100)	*9800 (21600)	9700 (21400)	*10950 (24100)	*10950 (24100)						
3.0 m (10')		*7550 (16700)	6050 (13400)	*11200 (24700)	8900 (19600)	*13500 (29700)	12100 (26700)	*17100 (37700)	17050 (37600)				
0 m (0')		8100 (17900)	6000 (13300)	10900 (24100)	8150 (18000)	14500 (32000)	10850 (23900)	*19850 (43700)	15450 (34100)	*16550 (36400)	*16550 (36400)		
-3.0 m (-10')		9750 (21500)	7250 (16000)	10750 (23700)	8050 (17700)	14200 (31300)	10550 (23200)	*18550 (40900)	15250 (33600)	*24150 (53300)	*24150 (53300)	*19450 (42900)	*19450 (42900)
-6.1 m (-20')		*9550 (21000)	*9550 (21000)					*11950 (26300)	*11950 (26300)	*15700 (34700)	*15700 (34700)		

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*8600 (18900)	*8600 (18900)										
6.1 m (20')		*8450 (18600)	7200 (15900)	*12350 (27200)	9700 (21400)	*13650 (30100)	13600 (30000)						
3.0 m (10')		8100 (17900)	6050 (13400)	11650 (25700)	8900 (19600)	15900 (35000)	12100 (26700)	*21300 (46900)	17050 (37600)				
0 m (0')		8100 (17900)	6000 (13300)	10900 (24100)	8150 (18000)	14500 (32000)	10850 (23900)	20950 (46200)	15450 (34100)	*19800 (43600)	*19800 (43600)		
-3.0 m (-10')		9750 (21500)	7250 (16000)	10750 (23700)	8050 (17700)	14200 (31300)	10550 (23200)	20700 (45700)	15250 (33600)	*30150 (66500)	24950 (55000)	*23200 (51200)	*23200 (51200)
-6.1 m (-20')		*12400 (27300)	*12400 (17300)					*15400 (34000)	*15400 (34000)	*20100 (44300)	*20100 (44300)		

Conditions: Boom: 7300 mm (23'11"), Bucket (SAE): 2.80 m³ (3.66 cu.yd), Shoes: 600 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*6500 (14400)	*6500 (14400)										
6.1 m (20')		*6350 (14000)	*6350 (14000)	*9650 (21300)	9300 (20600)	*10700 (23600)	*10700 (23600)						
3.0 m (10')		*7150 (15800)	6200 (13600)	*11000 (24200)	8600 (19000)	*13200 (29100)	11950 (23600)	*16900 (37200)	*16900 (37200)	*24200 (53300)	*24200 (53300)		
0 m (0')		8400 (18500)	6150 (13600)	10700 (23600)	7950 (17500)	14500 (31900)	10750 (23800)	*19600 (43200)	15400 (34000)	*21300 (47000)	*21300 (47000)		
-3.0 m (-10')		*10300 (22700)	7600 (16800)	10550 (23300)	7850 (17300)	*14100 (31000)	10500 (23200)	*18250 (40300)	15150 (33400)	*24150 (53300)	*24150 (53300)	*21900 (48300)	*21900 (48300)
-6.1 m (-20')		*9500 (20900)	*9500 (20900)					*10800 (23800)	*10800 (23800)	*14500 (32000)	*14500 (32000)		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC600-8, PC600-8R

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*8150 (18000)	*8150 (18000)										
6.1 m (20')		*7950 (17600)	7450 (16500)	12150 (26800)	9300 (20600)	*13450 (29600)	13350 (29400)						
3.0 m (10')		8350 (18400)	6200 (13600)	11400 (25100)	8600 (19000)	15700 (34700)	11950 (26300)	*21000 (46300)	17400 (38300)	*29850 (65800)	27900 (61500)		
0 m (0')		8400 (18500)	6150 (13600)	10700 (23600)	7950 (17500)	14500 (31900)	10750 (23800)	20950 (46200)	15400 (34000)	*25450 (56100)	24800 (54700)		
-3.0 m (-10')		10300 (22700)	7600 (16800)	10550 (23300)	7850 (17300)	14200 (31300)	10500 (23200)	20650 (45500)	15150 (33400)	*30200 (66500)	24900 (54900)	*26150 (57600)	*26150 (57600)
-6.1 m (-20')		*12450 (27400)	*12450 (27400)					*14050 (30900)	*14050 (30900)	*18650 (41200)	*18650 (41200)		

Conditions: Boom: 6600 mm (21'8"), Bucket (SAE): 3.5 m³ (4.58 cu.yd), Shoes: 600 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm (9'6")													
9.1 m (30')		*9700 (21400)	*9700 (21400)										
6.1 m (20')		*8950 (19700)	*8950 (19700)			*11950 (26400)	*11950 (26400)						
3.0 m (10')		*9800 (21600)	7600 (16800)	11400 (25100)	8600 (18900)	*14000 (30900)	12000 (26500)	*17650 (38900)	17600 (38800)	*24700 (54500)	*24700 (54500)		
0 m (0')		10300 (22700)	7650 (16900)	10850 (23900)	8050 (17800)	14700 (32400)	10950 (24200)	*19900 (43900)	15700 (34600)	*27600 (60800)	25250 (55700)		
-3.0 m (-10')		*11500 (23500)	10050 (22100)			*12850 (28400)	10900 (24100)	*16800 (37100)	14950 (33000)	*22950 (50600)	*22950 (50600)	*30500 (67200)	*30500 (67200)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm (9'6")													
9.1 m (30')		*11850 (26100)	*11850 (26100)										
6.1 m (20')		*10950 (24200)	9400 (20700)			*14950 (32900)	13200 (29100)						
3.0 m (10')		10150 (22400)	7600 (16800)	11400 (25100)	8600 (18900)	15800 (34900)	12000 (26500)	*21850 (48200)	17600 (38800)	*30400 (67100)	28400 (62700)		
0 m (0')		10300 (22700)	7650 (16900)	10850 (23900)	8050 (17800)	14700 (32400)	10950 (24200)	21300 (46900)	15700 (34600)	*34200 (75300)	25250 (55700)		
-3.0 m (-10')		13450 (29600)	10050 (22100)			14650 (32300)	10900 (24100)	20450 (45100)	14950 (33000)	*28700 (63300)	25500 (56200)	*36700 (80900)	*36700 (80900)

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC600-8 (UK source)

Conditions: Boom: 7300 mm, Bucket (SAE): 2.80 m³, Shoes: 600 mm

(Heavy-lifting: "OFF")

unit: kg

B	A	MAX		9.1 m		7.6 m		6.1 m		4.6 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm													
9.1 m		*6500	*6500										
6.1 m		*6350	*6350	*9650	*9300	*10700	*10700						
3.0 m		*7150	6200	*11000	8600	*13200	11950	*16900	*16900	*24200	*24200		
0 m		8400	6150	10700	7950	14500	10750	*19600	15400	*21300	*21300		
-3.0 m		10300	7600	10550	7850	*14100	10500	*18250	15150	*24150	*24150	*21900	*21900
-6.1 m		*9500	*9500					*10800	*10800	*14500	*14500		

(Heavy-lifting: "ON")

unit: kg

B	A	MAX		9.1 m		7.6 m		6.1 m		4.6 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm													
9.1 m		*8150	*8150										
6.1 m		*7950	7450	12150	9300	*13450	13350						
3.0 m		8350	6200	11400	8600	15700	11950	*21000	17400	*29850	27900		
0 m		8400	6150	10700	7950	14500	10750	20950	15400	*25450	24800		
-3.0 m		10300	7600	10550	7850	14200	10500	20650	15150	*30200	24900	*26150	*26150
-6.1 m		*12450	*12450					*14050	*14050	*18650	*18650		

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Conditions: Boom: 6600 mm, Bucket (SAE): 3.5 m³, Shoes: 600 mm

(Heavy-lifting: "OFF")

unit: k

B	A	MAX		9.1 m		7.6 m		6.1 m		4.6 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm													
9.1 m		*9700	*9700										
6.1 m		*8950	*8950			*11950	*11950						
3.0 m		*9800	7600	11400	8600	*14000	12000	*17650	17600	*24700	*24700		
0 m		10300	7650	10850	8050	14700	10950	*19900	15700	*27600	25250		
-3.0 m		*11500	10050			*12850	10900	*16800	14950	*22950	*22950	*30500	*30500
-4.6 m		*10650	*10650					*12900	*12900	*17500	*17500	*22300	*22300

(Heavy-lifting: "ON")

unit: kg

B	A	MAX		9.1 m		7.6 m		6.1 m		4.6 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm													
9.1 m		*11850	*11850										
6.1 m		*10950	9400			*14950	13200						
3.0 m		10150	7600	11400	8600	15800	12000	*21850	17600	*30400	28400		
0 m		10300	7650	10850	8050	14700	10950	21300	15700	*34200	25250		
-3.0 m		13450	10050			14650	10900	20450	14950	*28700	25500	*36700	*36700
-4.6 m		*13800	*13750					*16550	16150	*22200	*22200	*28350	*28350

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC600-7

Conditions: Boom: 7660 mm (25'2"), Bucket (SAE): 2.70 m³ (3.53 cu.yd), Shoes: 600 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*8000 (17600)	*8000 (17600)										
6.1 m (20')		*7900 (17400)	7250 (16000)	*10150 (22400)	8950 (19700)	*11450 (25300)	*11450 (25300)						
3.0 m (10')		8150 (18000)	6050 (13300)	11000 (24200)	8300 (18300)	*14000 (30800)	11400 (25100)	*18200 (40100)	16350 (86100)				
0 m (0')		8200 (18100)	6050 (18300)	10350 (22900)	7700 (17000)	13500 (29800)	9950 (21900)	*20100 (44300)	14800 (32700)	*14500 (32000)	*14500 (32000)		
-3.0 m (-10')		10150 (22400)	7550 (16600)	10350 (22800)	7650 (16900)	13500 (29800)	9950 (22000)	*18100 (39900)	14800 (32600)	*23150 (51000)	*23150 (51000)	*20950 (46200)	*20950 (46200)
-6.1 m (-20')		*9250 (20500)	*9250 (20500)					*10400 (22900)	*10400 (22900)	*13550 (29800)	*13550 (29800)		

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*8850 (19500)	*8850 (19500)										
6.1 m (20')		*8750 (19300)	7250 (16000)	*11350 (25100)	8950 (19700)	*12750 (28100)	12700 (28000)						
3.0 m (10')		8150 (18000)	6050 (13300)	11000 (24200)	8300 (18300)	15050 (33200)	11400 (25100)	*20150 (44500)	16350 (86100)				
0 m (0')		8200 (18100)	6050 (13300)	10350 (22900)	7700 (17000)	13500 (29800)	9950 (21900)	20200 (44500)	14800 (32700)	*15900 (35000)	*15900 (35000)		
-3.0 m (-10')		10150 (22400)	7550 (16600)	10350 (22800)	7650 (16900)	13500 (29800)	9950 (22000)	20150 (44400)	14800 (32600)	*25750 (56800)	24400 (53800)	*22800 (50300)	*22800 (50300)
-6.1 m (-20')		*10550 (23300)	*10550 (23300)					*11800 (26000)	*11800 (26000)	*15300 (83700)	*15300 (33700)		

Conditions: Boom: 7300 mm (23'11"), Bucket (SAE): 2.80 m³ (3.66 cu.yd), Shoes: 600 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*7550 (16600)	*7550 (16600)			*8400 (18500)	*8400 (18500)						
6.1 m (20')		*7450 (16400)	*7450 (16400)	*10100 (22300)	8650 (19100)	*11300 (24900)	*11300 (24900)						
3.0 m (10')		*8550 (18800)	6300 (18900)	10850 (24000)	8150 (17900)	*13800 (30400)	11400 (25100)	*17200 (38000)	15900 (35100)	*23350 (51500)	*23350 (51500)		
0 m (0')		8700 (19200)	6350 (14000)	10300 (22700)	7600 (16800)	14100 (31000)	10450 (23000)	*20000 (44100)	15050 (33200)	*19500 (43000)	*19500 (43000)		
-3.0 m (-10')		*10900 (24000)	8150 (18000)			*13750 (30300)	10300 (22700)	*17900 (39500)	14950 (38000)	*23300 (51300)	*23300 (51800)	*23850 (52500)	*23850 (52500)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*8400 (18500)	*8400 (18500)			*9300 (20500)	*9300 (20500)						
6.1 m (20')		*8300 (18300)	7700 (17000)	*11350 (25000)	8650 (19100)	*12600 (27800)	12600 (27700)						
3.0 m (10')		8600 (18900)	6300 (13900)	10850 (24000)	8150 (17900)	15100 (83300)	11400 (25100)	*19150 (42300)	15900 (35100)	*25450 (56100)	*25450 (56100)		
0 m (0')		8700 (19200)	6350 (14000)	10300 (22700)	7600 (16800)	14100 (31000)	10450 (23000)	20500 (45200)	15050 (33200)	*21300 (46900)	*21300 (46900)		
-3.0 m (-10')		11050 (24400)	8150 (18000)			13950 (30700)	10300 (22700)	*19950 (44000)	14950 (33000)	*25900 (57100)	24800 (54600)	*25950 (57200)	*25950 (57200)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC600-7

Conditions: Boom: 6600 mm (21'8"), Bucket (SAE): 3.5 m³ (4.58 cu.yd), Shoes: 600 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm (9'6")													
9.1 m (30')		*8750 (19300)	*8750 (19300)										
6.1 m (20')		*8300 (18300)	*8300 (18300)			*11700 (25800)	*11700 (25800)						
3.0 m (10')		9300 (20500)	7050 (15600)	10850 (24000)	8150 (17900)	*13950 (30800)	11550 (25500)	*17650 (38900)	17100 (37700)	*24700 (54500)	*24700 (54500)		
0 m (0')		9650 (21300)	7100 (15700)	10350 (22800)	7650 (16800)	14150 (31200)	10550 (23200)	*19000 (41900)	13900 (30600)	*28100 (61900)	*24650 (54400)		
-3.0 m (-10')		11650 (25700)	9350 (20700)			*13200 (29200)	10400 (23000)	*16800 (37100)	13850 (30600)	*23750 (52300)	*23750 (52300)	*29900 (65900)	*29900 (65900)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm (9'6")													
9.1 m (30')		*9700 (21400)	*9700 (21400)										
6.1 m (20')		*9200 (20200)	8750 (19300)			*13050 (28800)	12600 (27800)						
3.0 m (10')		9500 (21000)	7050 (15600)	10850 (24000)	8150 (17900)	15250 (33600)	11550 (25500)	*19550 (43100)	*17100 (37700)	27250 (60100)	*27250 (60100)		
0 m (0')		9650 (21300)	7100 (15700)	10350 (22800)	7650 (16800)	14150 (31200)	10550 (23200)	19200 (42400)	*13900 (30600)	31100 (68500)	24650 (54400)		
-3.0 m (-10')		12600 (27800)	9350 (20700)			14050 (31000)	10400 (23000)	*18850 (41600)	*13850 (30600)	26400 (58200)	24800 (54600)	*32450 (71600)	*32450 (71600)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC600LC-8

Conditions: Boom: 7660 mm (25'2"), Bucket (SAE): 2.70 m³ (3.53 cu.yd), Shoes: 600 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*6950 (15300)	*6950 (15300)										
6.1 m (20')		*6850 (15100)	*6850 (15100)	*9800 (21600)	*9800 (21600)	*10950 (24100)	*10950 (24100)						
3.0 m (10')		*7550 (16700)	6200 (13700)	*11200 (24700)	9050 (20000)	*13500 (29700)	12350 (27200)	*17100 (37700)	*17100 (37700)				
0 m (0')		9350 (20600)	6150 (13600)	*12250 (27000)	8350 (18400)	*15100 (33300)	11050 (24400)	*19850 (43700)	15750 (34800)	*16550 (36400)	*16550 (36400)		
-3.0 m (-10')		*10150 (22400)	7400 (16400)	*11400 (25100)	8200 (18100)	*14350 (31700)	10750 (23700)	18550 (40900)	15550 (34200)	*24150 (53300)	*24150 (53300)	*19450 (42900)	*19450 (42900)
-6.1 m (-20')		*9550 (21000)	*9550 (21000)					*11950 (26300)	*11950 (26300)	*15700 (34700)	*15700 (34700)		

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*8600 (18900)	*8600 (18900)										
6.1 m (20')		*8450 (18600)	7350 (16200)	*12350 (27200)	9850 (21800)	*13650 (30100)	*13650 (30100)						
3.0 m (10')		9300 (20500)	6200 (13700)	13300 (29400)	9050 (20000)	*16850 (37200)	12350 (27200)	*21300 (46900)	17350 (38300)				
0 m (0')		9350 (20600)	6150 (13600)	12550 (27700)	8350 (18400)	16700 (36900)	11050 (24400)	24350 (53700)	15750 (34800)	*19800 (43600)	*19800 (43600)		
-3.0 m (-10')		*11200 (24700)	7400 (16400)	12400 (27300)	8200 (18100)	16400 (36100)	10750 (23700)	*23200 (51200)	15550 (34200)	*30150 (66500)	25400 (56000)	*23200 (51200)	*23200 (51200)
-6.1 m (-20')		*12400 (27300)	*12400 (27300)					*15400 (34000)	*15400 (34000)	*20100 (44300)	*20100 (44300)		

Conditions: Boom: 7300 mm (23'11"), Bucket (SAE): 2.80 m³ (3.66 cu.yd), Shoes: 600 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*6500 (14400)	*6500 (14400)										
6.1 m (20')		*6350 (14000)	*6350 (14000)	*9650 (21300)	9500 (20900)	*10700 (23600)	*10700 (23600)						
3.0 m (10')		*7150 (15800)	6350 (14000)	*11000 (24200)	8800 (19400)	*13200 (29100)	12150 (26800)	*16900 (37200)	*16900 (37200)	*24200 (53300)	*24200 (53300)		
0 m (0')		*9200 (20300)	6300 (13900)	*11950 (26400)	8100 (17900)	*14950 (33000)	11000 (24200)	*19600 (43200)	15700 (34700)	*21300 (47000)	*21300 (47000)		
-3.0 m (-10')		*10350 (22900)	7800 (17200)	*10700 (23600)	8000 (17600)	*14100 (31000)	10700 (23600)	*18250 (40300)	15450 (34000)	*24150 (53300)	*24150 (53300)	*21900 (48300)	*21900 (48300)
-6.1 m (-20')		*9500 (20900)	*9500 (20900)					*10800 (23800)	*10800 (23800)	*14500 (32000)	*14500 (32000)		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC600LC-8

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*8150 (18000)	*8150 (18000)										
6.1 m (20')		*7950 (17600)	7650 (16800)	*12250 (27000)	9500 (20900)	*13450 (29600)	*13450 (29600)						
3.0 m (10')		*8900 (19600)	6350 (14000)	13050 (28800)	8800 (19400)	*16550 (36500)	12150 (26800)	*21000 (46300)	17700 (39000)	*29850 (65800)	*28350 (62500)		
0 m (0')		9700 (21400)	6300 (13900)	12300 (27200)	8100 (17900)	16700 (36800)	11000 (24200)	24400 (53800)	15700 (34700)	*25450 (56100)	25250 (55700)		
-3.0 m (-10')		11900 (26200)	7800 (17200)	12200 (26900)	8000 (17600)	16400 (36200)	10700 (23600)	*22950 (50600)	15450 (34000)	*30200 (66500)	25400 (56000)	*26150 (57600)	*26150 (57600)
-6.1 m (-20')		*12450 (27400)	*12450 (27400)					*14050 (30900)	*14050 (30900)	*18650 (41200)	*18650 (41200)		

Conditions: Boom: 6600 mm (21'8"), Bucket (SAE): 3.5 m³ (4.58 cu.yd), Shoes: 600 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm (9'6")													
9.1 m (30')		*9700 (21400)	*9700 (21400)										
6.1 m (20')		*8950 (19700)	*8950 (19700)			*11950 (26400)	*11950 (26400)						
3.0 m (10')		*9800 (21600)	7750 (17100)	*11800 (26000)	8750 (19300)	*14000 (30900)	12250 (27000)	*17650 (38900)	*17650 (38900)	*24700 (54500)	*24700 (54500)		
0 m (0')		*11500 (25400)	7800 (17200)	*12100 (26700)	8250 (18200)	*15300 (33700)	11200 (24700)	*19900 (43900)	16000 (35300)	*27600 (60800)	25700 (56700)		
-3.0 m (-10')		*11500 (25400)	10250 (22600)			*12850 (28400)	11150 (24600)	*16800 (37100)	15250 (33600)	*22950 (50600)	*22950 (50600)	*30500 (67200)	*30500 (67200)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm (9'6")													
9.1 m (30')		*11850 (26100)	*11850 (26100)										
6.1 m (20')		*10950 (24200)	9550 (21100)			*14950 (32900)	13450 (29600)						
3.0 m (10')		11650 (25700)	7750 (17100)	13050 (28800)	8750 (19300)	*17500 (38600)	12250 (27000)	*21850 (48200)	17850 (39400)	*30400 (67100)	28900 (63700)		
0 m (0')		11850 (26100)	7800 (17200)	12500 (27600)	8250 (18200)	16950 (37300)	11200 (24700)	24750 (54500)	16000 (35300)	*34200 (75300)	25700 (56700)		
-3.0 m (-10')		*14700 (32500)	10250 (22600)			*16350 (36100)	11150 (24600)	*21300 (46900)	15250 (33600)	*28700 (63300)	25950 (57300)	*36700 (80900)	*36700 (80900)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC600LC-8 (for USA)

Conditions: Boom: 7660 mm (25'2"), Bucket (SAE): 2.70 m³ (3.53 cu.yd), Shoes: 600 mm (24"),
13500 kg (29,760 lb) counterweight

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*8600 (18900)	*8600 (18900)										
6.1 m (20')		*8450 (18600)	*8450 (18600)	*11800 (26100)	11550 (25500)	*13650 (30100)	*13650 (30100)						
3.0 m (10')		*9300 (20500)	7350 (16200)	*13200 (29100)	10950 (24200)	*16900 (37200)	14200 (31300)	*21300 (47000)	19850 (43800)				
0 m (0')		10750 (23700)	7350 (16200)	14650 (32300)	10150 (22300)	*18950 (41800)	12900 (28500)	*24700 (54500)	18250 (40300)	*19800 (43700)	*19800 (43700)		
-3.0 m (-10')		12850 (28300)	8800 (19400)	14150 (31200)	9650 (21300)	*18150 (40000)	12600 (27800)	*23200 (51200)	18050 (39800)	*30100 (66400)	29300 (64600)	*23250 (51300)	*23250 (51300)
-6.1 m (-20')		*12350 (27300)	*12350 (27300)					*15350 (33900)	*15350 (33900)	*20050 (44200)	*20050 (44200)		

Conditions: Boom: 7300 mm (23'11"), Bucket (SAE): 2.80 m³ (3.66 cu.yd), Shoes: 600 mm (24"),
13500 kg (29,760 lb) counterweight

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
9.1 m (30')		*8150 (18000)	*8150 (18000)										
6.1 m (20')		*7950 (17600)	*7950 (17600)	*12250 (27000)	10950 (24200)	*13450 (29600)	*13450 (29600)						
3.0 m (10')		*8900 (19600)	*7550 (16600)	*13950 (30800)	10250 (22600)	*16600 (36600)	14000 (30900)	*21000 (46300)	20200 (44500)	*29850 (65800)	*29850 (65800)		
0 m (0')		11150 (24600)	7550 (16700)	14100 (31000)	9600 (21100)	*18800 (41500)	12850 (28300)	*24450 (53900)	18250 (40200)	*25500 (56200)	*25500 (56200)		
-3.0 m (-10')		*13350 (29400)	9250 (20400)	*13750 (30300)	9500 (20900)	*17800 (39300)	12600 (27700)	*22950 (50500)	17950 (39600)	*30150 (66500)	29250 (64500)	*26200 (57800)	*26200 (57800)
-6.1 m (-20')		*12400 (27400)	*12400 (27400)					*14000 (30800)	*14000 (30800)	*18600 (41000)	*18600 (41000)		

Conditions: Boom: 7660 mm (25'2"), Bucket (SAE): 2.30 m³ (3.0 cu.yd), Shoes: 600 mm (24"),
13500 kg (29,260 lb) counterweight

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 4300 mm (14'1")													
9.1 m (30')		*6600 (14500)	*6600 (14500)	*9000 (19800)	*9000 (19800)								
6.1 m (20')		*6450 (14200)	*6450 (14200)	*11200 (24700)	*11200 (24700)								
3.0 m (10')		*7000 (15500)	6500 (14300)	*13250 (29200)	10600 (23400)	*15650 (34500)	14400 (31700)	*19750 (43500)	*19750 (43500)	*27750 (61200)	*27750 (61200)		
0 m (0')		*8500 (18700)	6400 (14200)	14200 (31400)	9700 (21400)	*18400 (40600)	12950 (28600)	*23950 (52800)	18250 (40200)	*21700 (47800)	*21700 (47800)		
-3.0 m (-10')		11050 (24300)	7450 (16500)	13850 (30600)	9400 (20700)	*18350 (40500)	12300 (27100)	*23700 (52300)	17650 (38900)	*31650 (69700)	28600 (63100)	*20200 (44500)	*20200 (44500)
-6.1 m (-20')		*11900 (26200)	11350 (25000)			*13950 (30700)	12950 (28500)	*18250 (40200)	*18250 (40200)	*23550 (52000)	*23550 (52000)	*31250 (69000)	*31250 (69000)

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC600LC-8 (for USA)

Conditions: Boom: 7660 mm (25'2"), Bucket (SAE): 2.0 m³ (2.62 cu.yd), Shoes: 600 mm (24"),
13500 kg (29,620 lb) counterweight

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 5200 mm (17'1")													
	9.1 m (30')	*4900 (10800)	*4900 (10800)										
	6.1 m (20')	*4800 (10600)	*4800 (10600)										
	3.0 m (10')	*5150 (11400)	*5150 (11400)	*12200 (26900)	10850 (23900)	*14250 (31400)	*14250 (31400)	*17550 (38700)	*17550 (38700)	*23850 (52600)	*23850 (52600)		
	0 m (0')	*6150 (13600)	5550 (12300)	14350 (31600)	9800 (21600)	*17600 (38800)	13150 (29000)	*22900 (50500)	18600 (41000)	*25000 (55100)	*25000 (55100)		
	-3.0 m (-10')	*8300 (18300)	6300 (13900)	13750 (30300)	9250 (20400)	18300 (40300)	12250 (27000)	*24100 (53100)	17500 (38600)	*29300 (64700)	28300 (62400)	*17700 (39000)	*17700 (39000)
	-6.1 m (-20')	*11150 (24500)	8850 (19600)	*12200 (26900)	9450 (20900)	*15950 (35200)	12500 (27500)	*20550 (45300)	17800 (39200)	*27050 (59600)	*27050 (59600)	*31000 (68400)	*31000 (68400)

Conditions: Boom: 6600 mm (21'8"), Bucket (SAE): 3.5 m³ (4.58 cu.yd), Shoes: 600 mm (24"),
13500 kg (29,620 lb) counterweight

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
	9.1 m (30')	*11850 (26100)	*11850 (26100)										
	6.1 m (20')	*10950 (24200)	*10950 (24200)			*14950 (33000)	*14950 (33000)						
	3.0 m (10')	*11900 (26300)	9150 (20100)	14800 (32700)	10250 (22600)	*17550 (38600)	14100 (31100)	*21900 (48200)	20400 (44900)	*30450 (67100)	*30450 (67100)		
	0 m (0')	13550 (29900)	9250 (20400)	14250 (31400)	9700 (21400)	*19150 (42300)	13050 (28800)	*24800 (54700)	18500 (40800)	*34150 (75300)	*29600 (65300)		
	-3.0 m (-10')	*14700 (32400)	12000 (26400)			*16350 (36000)	13000 (28700)	*21250 (46900)	17750 (39200)	*28700 (63200)	*28700 (63200)	*36800 (81100)	*36800 (81100)

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC600LC-8 (UK source)

Conditions: Boom: 7660 mm, Bucket (SAE): 2.70 m³, Shoes: 600 mm

(Heavy-lifting: "OFF")

unit: kg

B	A	MAX		9.1 m		7.6 m		6.1 m		4.6 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm													
	9.1 m	*6950	*6950										
	6.1 m	*6850	*6850	*9800	*9800	*10950	*10950						
	3.0 m	*7550	6200	*11200	9050	*13500	12350	*17100	*17100				
	0 m	9350	6150	*12250	8350	*15100	11050	*19850	15750	*16550	*16500		
	-3.0 m	*10150	7400	*11400	8200	*14350	10750	*18550	15550	*24150	*24150	*19450	*19450
	-6.1 m	*9550	*9550					*11950	*11950	*15700	*15700		

(Heavy-lifting: "ON")

unit: kg

B	A	MAX		9.1 m		7.6 m		6.1 m		4.6 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm													
	9.1 m	*8600	*8600										
	6.1 m	*8450	7350	*12350	9850	*13650	*13650						
	3.0 m	*9300	6200	13300	9050	*16850	12350	*21300	17350				
	0 m	9350	6150	12550	8350	16700	11050	24350	15750	*19800	*19800		
	-3.0 m	*11200	7400	12400	8200	16400	10750	*23200	15550	*30150	25400	*23200	*23200
	-6.1 m	*12400	*12400					*15400	*15400	*20100	*20100		

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC600LC-7

Conditions: Boom: 7660 mm (25'2"), Bucket (SAE): 2.70 m³ (3.53 cu.yd), Shoes: 600 mm (24")
 (Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
	9.1 m (30')	*8000 (17600)	*8000 (17600)										
	6.1 m (20')	*7900 (17400)	7400 (16400)	*10150 (22400)	9100 (20100)	*11450 (25300)	*11450 (25300)						
	3.0 m (10')	*8900 (19700)	6200 (13600)	*11500 (25400)	8450 (18700)	*14000 (30800)	11650 (25600)	*18200 (40100)	16650 (36800)				
	0 m (0')	9500 (21000)	6200 (13700)	12000 (26400)	7900 (17400)	*15000 (33100)	10200 (22400)	*20100 (44300)	15150 (33400)	*14500 (32000)	*14500 (32000)		
	-3.0 m (-10')	*10600 (23300)	7700 (17000)	*10850 (23900)	7850 (17300)	*13850 (30600)	10200 (22500)	*18100 (39900)	15100 (33300)	*23150 (51000)	*23150 (51000)	*20950 (46200)	*20950 (46200)
	-6.1 m (-20')	*9250 (20500)	*9250 (20500)					*10400 (22900)	*10400 (22900)	*13550 (29800)	*13550 (29800)		

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
	9.1 m (30')	*8850 (19500)	*8850 (19500)										
	6.1 m (20')	*8750 (19300)	7400 (16400)	*11350 (25100)	9100 (20100)	*12750 (28100)	*12750 (28100)						
	3.0 m (10')	9400 (20700)	6200 (18600)	12600 (27800)	8450 (18700)	*15550 (34800)	11650 (25600)	*20150 (44500)	16650 (36800)				
	0 m (0')	9500 (21000)	6200 (13700)	12000 (26400)	7900 (17400)	15700 (34600)	10200 (22400)	*22300 (49200)	15150 (33400)	*15900 (35000)	*15900 (35000)		
	-3.0 m (-10')	11750 (25900)	7700 (17000)	11950 (26400)	7850 (17300)	*15550 (34300)	10200 (22500)	*20200 (44500)	15100 (33300)	*25750 (56800)	24900 (54900)	*22800 (50300)	*22800 (50300)
	-6.1 m (-20')	*10550 (23300)	*10550 (23300)					*11800 (26000)	*11800 (26000)	*15300 (33700)	*15300 (33700)		

Conditions: Boom: 7300 mm (23'11"), Bucket (SAE): 2.80 m³ (3.66 cu.yd), Shoes: 600 mm (24")
 (Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
	9.1 m (30')	*7550 (16600)	*7550 (16600)			*8400 (18500)	*8400 (18500)						
	6.1 m (20')	*7450 (16400)	*7450 (16400)	*10100 (22300)	8850 (19500)	*11300 (24900)	*11300 (24900)						
	3.0 m (10')	*8550 (18800)	6450 (14300)	*11350 (25100)	8300 (18300)	*13800 (30400)	11600 (25600)	*17200 (38000)	16200 (35700)	*23350 (51500)	*23350 (51500)		
	0 m (0')	10100 (22200)	6500 (14400)	11900 (26800)	7800 (17200)	*15250 (33600)	10650 (23500)	*20000 (44100)	15350 (33800)	*19500 (48000)	*19500 (48000)		
	-3.0 m (-10')	*10900 (24000)	8350 (18400)			*13750 (30300)	10550 (23200)	*17900 (39500)	15250 (33600)	*23300 (51300)	*23300 (51300)	*23850 (52500)	*23850 (52500)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3500 mm (11'6")													
	9.1 m (30')	*8400 (18500)	*8400 (18500)			*9300 (20500)	*9300 (20500)						
	6.1 m (20')	*8300 (18300)	7850 (17300)	*11350 (25000)	8850 (19500)	*12600 (27800)	*12600 (27800)						
	3.0 m (10')	*9450 (20800)	6450 (14300)	12500 (27500)	8300 (18300)	*15350 (33900)	11600 (25600)	*19150 (42300)	16200 (35700)	*25450 (56100)	*25450 (56100)		
	0 m (0')	10100 (22200)	6500 (14400)	11900 (26300)	7800 (17200)	16250 (35900)	10650 (23500)	*22200 (49000)	15350 (33800)	*21300 (46900)	*21300 (46900)		
	-3.0 m (-10')	*12300 (27100)	8350 (18400)			*15400 (33900)	10550 (23200)	*19950 (44000)	15250 (33600)	*25900 (57100)	25250 (55700)	*25950 (57200)	*25950 (57200)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC600LC-7

Conditions: Boom: 6600 mm (21'8"), Bucket (SAE): 3.5 m³ (4.58 cu.yd), Shoes: 600 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm (9'6")													
9.1 m (30')		*8750 (19300)	*8750 (19300)										
6.1 m (20')		*8300 (18300)	*8300 (18300)			*11700 (25800)	*11700 (25800)						
3.0 m (10')		*9300 (20500)	7200 (15900)	*11700 (25800)	8350 (18400)	*13950 (30800)	11800 (26000)	*17650 (38900)	17400 (38400)	*24700 (54500)	*24700 (54500)		
0 m (0')		11200 (24600)	7300 (16100)	11950 (26400)	7800 (17300)	*15400 (33900)	10750 (23700)	*19000 (41900)	14200 (31300)	*28100 (61900)	25150 (55500)		
-3.0 m (-10')		*11650 (25700)	9350 (20700)			*13200 (29200)	10650 (23500)	*16800 (37100)	14200 (31300)	*23750 (52300)	*23750 (52300)	*29900 (65900)	*29900 (65900)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm (9'6")													
9.1 m (30')		*9700 (21400)	*9700 (21400)										
6.1 m (20')		*9200 (20200)	8900 (19700)			*13050 (28800)	12850 (28300)						
3.0 m (10')		*10250 (22600)	7200 (15900)	12500 (27600)	8350 (18400)	*15550 (34200)	11800 (26000)	*19550 (43100)	17400 (38400)	*27250 (60100)	*27250 (60100)		
0 m (0')		11200 (24600)	7300 (16100)	11950 (26400)	7800 (17300)	16400 (36100)	10750 (23700)	*21200 (46800)	14200 (31300)	*31100 (68500)	25150 (55500)		
-3.0 m (-10')		*13150 (28900)	9600 (21100)			*14850 (32700)	10650 (23500)	*18850 (41600)	14200 (31300)	*26400 (58200)	25250 (55700)	*32450 (71600)	*32450 (71600)

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC750-7

Conditions: Boom: 8200 mm (26'11"), Bucket (SAE): 3.1 m³ (4.05 cu.yd), Shoes: 610 mm (24")
 (Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3600 mm (11'10")													
6.0 m (19')		*9350 (20600)	*8650 (19100)	*12950 (28500)	12700 (28000)	*15150 (33400)	*15150 (33400)	*18900 (41700)	*18900 (41700)				
3.0 m (9')		9650 (21300)	7350 (16200)	14750 (32500)	11400 (25200)	*18450 (40700)	14850 (32800)	*25700 (56700)	21900 (48300)				
0 m (0')		9800 (21600)	7350 (16200)	13750 (30300)	10450 (23000)	18550 (40900)	14100 (31000)	26900 (59300)	20100 (44300)				
-3.0 m (-9')		12000 (26500)	9100 (20000)	13500 (29800)	10250 (22600)	18300 (40300)	13850 (30500)	*24850 (54800)	20150 (44500)	*29350 (64700)	*29350 (64700)	*21350 (47100)	*21350 (47100)
-6.0 m (-19')		*14350 (31600)	*14350 (31600)					*17000 (37500)	*17000 (37500)				

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3600 mm (11'10")													
6.0 m (19')		*10550 (23300)	8650 (19100)	*14800 (32700)	12700 (28000)	*17250 (38000)	*17250 (38000)	*21350 (47100)	*21350 (47100)				
3.0 m (9')		9650 (21300)	7350 (16200)	14750 (32500)	11400 (25200)	19400 (42800)	14850 (32800)	28850 (63700)	21900 (48300)				
0 m (0')		9800 (21600)	7350 (16200)	13750 (30300)	10450 (23000)	18550 (40900)	14100 (31000)	26900 (59300)	20100 (44300)				
-3.0 m (-9')		12000 (26500)	9100 (20000)	13500 (29800)	10250 (22600)	18300 (40300)	13850 (30500)	26950 (59500)	20150 (44500)	*32500 (71700)	*32500 (71700)	*23750 (52300)	*23750 (52300)
-6.0 m (-19')		*16650 (36800)	*16650 (36800)					*19700 (43400)	*19700 (43400)				

Conditions: Boom: 8200 mm (26'11"), Bucket (SAE): 2.8 m³ (3.66 cu.yd), Shoes: 610 mm (24")
 (Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		12.0 m (39')		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 4600 mm (15'1")															
6.0 m (19')		*7500 (16600)	7500 (16500)			*11500 (25400)	*11500 (25400)								
3.0 m (9')		8450 (18700)	6350 (14000)	8650 (19000)	6500 (14300)	*14150 (31200)	11650 (25700)	*17500 (38600)	15950 (35200)	*23400 (51600)	22950 (50600)				
0 m (0')		8450 (18600)	6250 (13800)			13700 (30200)	10400 (23000)	18600 (41000)	14100 (31100)	*27000 (59500)	20200 (44500)	*13600 (30000)	*13600 (30000)		
-3.0 m (-9')		10000 (22000)	7450 (16400)			13200 (29100)	9900 (21900)	17950 (39600)	13500 (29800)	*25950 (57300)	19700 (43400)	*25600 (56400)	*25600 (56400)	*17800 (39300)	*17800 (39300)
-6.0 m (-19')		*13850 (30500)	12100 (26600)					*15800 (34800)	14000 (30900)	*20350 (44900)	*20350 (44900)	*26300 (58000)	*26300 (58000)		

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		12.0 m (39')		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3600 mm (11'10")															
6.0 m (19')		*8600 (19000)	7500 (16500)			*13250 (29200)	13100 (28900)								
3.0 m (9')		8450 (18700)	6350 (14000)	8650 (19000)	6500 (14300)	15000 (33100)	11650 (25700)	*20000 (44100)	15950 (35200)	*26550 (58600)	22950 (50600)				
0 m (0')		8450 (18600)	6250 (13800)			13700 (30200)	10400 (23000)	18600 (41000)	14100 (31100)	27050 (59600)	20200 (44500)	*15300 (33700)	*15300 (33700)		
-3.0 m (-9')		10000 (22000)	7450 (16400)			13200 (29100)	9900 (21900)	17950 (39600)	13500 (29800)	26450 (58400)	19700 (43400)	*28400 (62600)	*28400 (62600)	*19900 (43800)	*19900 (43800)
-6.0 m (-19')		15900 (35100)	12100 (26600)					*18300 (40300)	14000 (30900)	*23450 (51700)	20500 (45200)	*30200 (66600)	*30200 (66600)		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC750-7

Conditions: Boom: 8200 mm (26'11"), Bucket (SAE): 2.8 m³ (3.66 cu.yd), Shoes: 610 mm (24")
 (Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		12.0 m (39')		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 5600 mm (18'4")															
6.0 m (19')		*4550 (10000)	*4550 (10000)	*6850 (15100)	*6850 (15100)										
3.0 m (9')		*5300 (11700)	*5300 (11700)	*9500 (20900)	7400 (16300)	*12650 (27900)	*12650 (27900)	*15500 (34200)	*15500 (34200)	*20450 (45100)	*20450 (45100)				
0 m (0')		*6950 (15300)	5800 (12800)	9000 (19800)	6750 (14900)	*15000 (33100)	11600 (25600)	19050 (42000)	15750 (34700)	*25600 (56400)	22550 (49700)	*13650 (30100)	*13650 (30100)		
-3.0 m (-9')		8950 (19700)	6650 (14700)			14250 (31400)	10850 (23900)	19350 (42700)	14700 (32400)	-26100 (57600)	*21350 (47100)	*21100 (46500)	*21100 (46500)	*13900 (30600)	*13900 (30600)
-6.0 m (-19')		*11750 (25900)	9650 (21200)			*13450 (29600)	10950 (24100)	*16550 (36400)	13950 (30800)	*22400 (49400)	21700 (47900)	*29850 (65800)	*29850 (65800)	*25250 (55600)	*25250 (55600)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		12.0 m (39')		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 5600 mm (18'4")															
6.0 m (19')		*5350 (11800)	*5350 (11800)	*7900 (17400)	*7900 (17400)										
3.0 m (9')		*6200 (13700)	5900 (13000)	9650 (21300)	7400 (16300)	*14600 (32200)	13150 (28900)	*17800 (39200)	*17800 (39200)	*23300 (51300)	*23300 (51300)				
0 m (0')		7800 (17200)	5800 (12800)	9000 (19800)	6750 (14900)	15100 (33300)	11600 (25600)	20450 (45100)	15750 (34700)	*29200 (64300)	22550 (49700)	*15350 (33900)	*15350 (33900)		
-3.0 m (-9')		8950 (19700)	6650 (14700)			14250 (31400)	10850 (23900)	19350 (42700)	14700 (32400)	28450 (62800)	21350 (47100)	*23500 (51800)	*23500 (51800)	*15600 (34400)	*15600 (34400)
-6.0 m (-19')		12700 (28000)	9650 (21200)			14400 (31700)	10950 (24100)	18600 (41000)	13950 (30800)	*25750 (56800)	21700 (47900)	*34200 (75400)	*34200 (75400)	*28000 (61800)	*28000 (61800)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC750-7 (SE spec.)

Conditions: Boom: 7100 mm (23'4"), Bucket (SAE): 4.0 m³ (5.23 cu.yd), Shoes: 610 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2920 mm (9'7")													
6.0 m (19')		*13600 (30000)	10850 (23900)	*13800 (30400)	11600 (25600)	*15600 (34400)	*15600 (34400)	*18800 (41500)	*18800 (41500)				
3.0 m (9')		11800 (26000)	8900 (19600)	14100 (31100)	10750 (23700)	*19050 (42000)	15100 (33300)	*25300 (55800)	21950 (48400)				
0 m (0')		12250 (27000)	9200 (20300)	13350 (29400)	10050 (22100)	18350 (40400)	13850 (30500)	27000 (59600)	20150 (44400)	*27550 (60800)	*27550 (60800)		
-3.0 m (-9')		*16000 (35200)	12800 (28200)			*17500 (38600)	13950 (30800)	*23150 (51000)	20450 (45100)	*29900 (66000)	*29900 (66000)	*37500 (82700)	*37500 (82700)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2920 mm (9'7")													
6.0 m (19')		14050 (31000)	10850 (23900)	15000 (33100)	11600 (25600)	*17800 (39300)	16950 (37400)	*21350 (47100)	*21350 (47100)				
3.0 m (9')		11800 (26000)	8900 (19600)	14100 (31100)	10750 (23700)	19650 (43300)	15100 (33300)	*28750 (63400)	21950 (48400)				
0 m (0')		12250 (27000)	9200 (20300)	13350 (29400)	10050 (22100)	18350 (40400)	13850 (30500)	27000 (59600)	20150 (44400)	*30600 (67400)	*30600 (67400)		
-3.0 m (-9')		16900 (37200)	12800 (28200)			18450 (40700)	13950 (30800)	*26500 (58400)	20450 (45100)	*34200 (75400)	*34200 (75400)	*42950 (94600)	*42950 (94600)

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC800-8, PC800-8R

Conditions: Boom: 8200 mm (26'11"), Bucket (SAE): 3.1 m³ (4.05 cu.yd), Shoes: 610 mm (24")
 (Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3600 mm (11'10")													
6.0 m (19')		*7700 (17000)	*7700 (17000)	*12150 (26700)	*12150 (26700)	*13950 (30800)	*13950 (30800)						
3.0 m (9')		*9000 (19800)	7050 (15500)	*14500 (32000)	12000 (26400)	*17850 (39400)	16200 (35700)	*23750 (52400)	22900 (50500)				
0 m (0')		9250 (20400)	6950 (15300)	14100 (31100)	10750 (23700)	18900 (41600)	14300 (31600)	*26650 (58700)	20250 (44700)	*13450 (29700)	*13450 (29700)		
-3.0 m (-9')		10900 (24100)	8250 (18100)	13700 (30200)	10350 (22800)	18400 (40500)	13850 (30500)	*25150 (55400)	20000 (44000)	*26650 (58800)	*26650 (58800)	*19000 (41900)	*19000 (41900)
-6.0 m (-19')		*13700 (30200)	13500 (29800)			*14800 (32600)	14650 (32300)	*19000 (41900)	*19000 (41900)	*24050 (53100)	*24050 (53100)		

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3600 mm (11'10")													
6.0 m (19')		*8700 (19200)	8300 (18300)	*13900 (30700)	13600 (30000)	*15900 (35100)	*15900 (35100)						
3.0 m (9')		9250 (20400)	7050 (15500)	15400 (34000)	12000 (26400)	*20400 (45000)	16200 (35700)	*27050 (59600)	22900 (50500)				
0 m (0')		9250 (20400)	6950 (15300)	14100 (31100)	10750 (23700)	18900 (41600)	14300 (31600)	27200 (59900)	20250 (44700)	*15050 (33100)	*15050 (33100)		
-3.0 m (-9')		10900 (24100)	8250 (18100)	13700 (30200)	10350 (22800)	18400 (40500)	13850 (30500)	26900 (59300)	20000 (44000)	*29500 (65000)	*29500 (65000)	*21100 (46500)	*21100 (46500)
-6.0 m (-19')		*15950 (35100)	13500 (29800)			*17150 (37800)	14650 (32300)	*21950 (48400)	21100 (46500)	*27800 (61200)	*27800 (61200)		

Conditions: Boom: 8200 mm (26'11"), Bucket (SAE): 2.8 m³ (3.66 cu.yd), Shoes: 610 mm (24")
 (Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		12.0 m (39')		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 4600 mm (15'1")															
6.0 m (19')		*6350 (14000)	*6350 (14000)	*7850 (17300)	7700 (17000)	*10700 (23600)	*10700 (23600)								
3.0 m (9')		*7300 (16100)	6050 (13300)	9300 (20500)	7050 (15600)	*13300 (29400)	12400 (27300)	*16250 (35900)	*16250 (35900)	*21350 (47100)	*21350 (47100)				
0 m (0')		7950 (17500)	5900 (13000)	8650 (19000)	6450 (14200)	14250 (31400)	10850 (23900)	19150 (42300)	14550 (32100)	*25900 (57100)	20700 (45600)	*14500 (32000)	*14500 (32000)		
-3.0 m (-9')		9100 (20100)	6750 (14900)			13500 (29700)	10150 (22300)	18150 (40100)	13650 (30100)	*25950 (57200)	19700 (43400)	*23400 (51600)	*23400 (51600)	*15850 (35000)	*15850 (35000)
-6.0 m (-19')		*12600 (27800)	9950 (22000)			*13200 (29100)	10400 (23000)	*17000 (37500)	13950 (30800)	*21750 (48000)	20300 (44700)	*28500 (62900)	*28500 (62900)	*28600 (63000)	*28600 (63000)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		12.0 m (39')		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3600 mm (11'10")															
6.0 m (19')		*7250 (16000)	7100 (15600)	*8900 (19700)	7700 (17000)	*12300 (27100)	*12300 (27100)								
3.0 m (9')		8050 (17800)	6050 (13300)	9300 (20500)	7050 (15600)	*15350 (33800)	12400 (27300)	*18600 (41000)	16900 (37300)	*24300 (53500)	*24300 (53500)				
0 m (0')		7950 (17500)	5900 (13000)	8650 (19000)	6450 (14200)	14250 (31400)	10850 (23900)	19150 (42300)	14550 (32100)	27650 (61000)	20700 (45600)	*16200 (35800)	*16200 (35800)		
-3.0 m (-9')		9100 (20100)	6750 (14900)			13500 (29700)	10150 (22300)	18150 (40100)	13650 (30100)	26600 (58600)	19700 (43400)	*25900 (57100)	*25900 (57100)	*17650 (39000)	*17650 (39000)
-6.0 m (-19')		13200 (29100)	9950 (22000)			13750 (30400)	10400 (23000)	18500 (40800)	13950 (30800)	*25050 (55200)	20300 (44700)	*32750 (72200)	*32750 (72200)	*31600 (69700)	*31600 (69700)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC800-8, PC800-8R

Conditions: Boom: 8200 mm (26'11"), Bucket (SAE): 2.8 m³ (3.66 cu.yd), Shoes: 610 mm (24")
 (Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		12.0 m (39')		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 5600 mm (18'4")															
6.0 m (19')		*3950 (8700)	*3950 (8700)	*6950 (15400)	*6950 (15400)										
3.0 m (9')		*4500 (9900)	*4500 (9900)	*9050 (19900)	7050 (15500)	*11750 (25900)	*11750 (25900)	*14200 (31300)	*14200 (31300)	*18350 (40400)	*18350 (40400)				
0 m (0')		*5600 (12400)	4700 (10300)	8400 (18600)	6200 (13700)	14150 (31200)	10750 (23700)	*17800 (39200)	14350 (31700)	*24100 (53100)	20850 (46000)	*15050 (33200)	*15050 (33200)		
-3.0 m (-9')		7300 (16100)	5250 (11600)	7950 (17500)	5750 (12700)	13050 (28800)	9700 (21400)	17700 (39000)	13150 (29000)	*25600 (56400)	19050 (42100)	*20000 (44100)	*20000 (44100)	*12800 (28200)	*12800 (28200)
-6.0 m (-19')		9850 (21700)	7250 (16000)			13000 (28600)	9650 (21200)	17600 (38800)	13100 (28900)	*23050 (50800)	19200 (42300)	*31050 (68400)	*31050 (68400)	*22450 (49500)	*22450 (49500)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		12.0 m (39')		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 5600 mm (18'4")															
6.0 m (19')		*4700 (10300)	*4700 (10300)	*8000 (17600)	7800 (17200)										
3.0 m (9')		*5300 (11600)	4850 (10700)	9250 (20400)	7050 (15500)	*13600 (30000)	*12600 (27700)	*16300 (36000)	*16300 (36000)	*20900 (46100)	*20900 (46100)				
0 m (0')		*6500 (14300)	4700 (10300)	8400 (18600)	6200 (13700)	14150 (31200)	10750 (23700)	18950 (41800)	14350 (31700)	*27550 (60800)	20850 (46000)	*16800 (37000)	*16800 (37000)		
-3.0 m (-9')		7300 (16100)	5250 (11600)	7950 (17500)	5750 (12700)	13050 (28800)	9700 (21400)	17700 (39000)	13150 (29000)	25950 (57200)	19050 (42100)	*22200 (49000)	*22200 (49000)	*14350 (31600)	*14350 (31600)
-6.0 m (-19')		9850 (21700)	7250 (16000)			13000 (28600)	9650 (21200)	17600 (38800)	13100 (28900)	26050 (57500)	19200 (42300)	*35400 (78000)	32550 (71800)	*24950 (55000)	*24950 (55000)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC800-8 (UK source)

Conditions: Boom: 7100 mm, Bucket (SAE): 4.3 m³, Shoes: 610 mm
(Heavy-lifting: "ON")

unit: kg

B	A	MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2945 mm													
	6.0 m	*14250	11200	*14800	13650	*16500	*16500						
	3.0 m	12200	9350	16050	12450	*20500	17200	*26750	24900				
	0 m	12500	9500	15000	11450	20350	15550	29700	22350	*31650	*31650		
	-3.0 m	16250	12450			20200	15400	*27100	22350	*35700	*35700	*40350	*40350

Conditions: Boom: 8040 mm, Bucket (SAE): 3.4 m³, Shoes: 610 mm
(Heavy-lifting: "ON")

unit: kg

B	A	MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3600 mm													
	9.0 m	*10150	*10150	*11350	*11350								
	6.0 m	*10550	8650	*12850	*12850	*14750	*14750						
	3.0 m	9600	7250	*15400	12250	*18950	16700	*25300	23850				
	0 m	9600	7100	14400	10900	19450	14650	28200	20950	*22150	*22150		
	-3.0 m	11500	8600	14000	10500	18950	14200	*27050	20650	*35650	35050	*28900	*28900
	-6.0 m	*14850	14850			*15250	15200	*20000	*20000	*25600	*25600		

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC800-7

Conditions: Boom: 8040 mm (26'11"), Bucket (SAE): 3.4 m³ (4.45 cu.yd), Shoes: 610 mm (24")
(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3600 mm (11'10")													
6.0 m (19')		*10550 (23200)	9050 (20000)	*11950 (26400)	*11950 (26400)	*14000 (30900)	*14000 (30900)	*17500 (38600)	*17500 (38600)				
3.0 m (9')		10100 (22300)	7650 (16800)	*14150 (31200)	12050 (26600)	*17700 (39100)	16500 (36300)	*24000 (52900)	23400 (51600)				
0 m (0')		10250 (22600)	7700 (16900)	14450 (31900)	11000 (24200)	19600 (43200)	14850 (32800)	*25900 (57100)	21300 (47000)				
-3.0 m (-9')		12700 (28000)	9600 (21100)	14250 (31500)	10800 (23800)	*18400 (40600)	14650 (32300)	*23550 (51900)	21400 (47200)	*30250 (66700)	*30250 (66700)	*28050 (61900)	*28050 (61900)
-6.0 m (-19')		*12850 (28400)	*12850 (28400)					*15550 (34300)	*15550 (34300)				

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3600 mm (11'10")													
6.0 m (19')		11750 (25900)	9050 (20000)	*13850 (30500)	13450 (29700)	*16100 (35500)	*16100 (35500)	*19900 (43900)	*19900 (43900)				
3.0 m (9')		10100 (22300)	7650 (16800)	15600 (34400)	12050 (26600)	*20350 (44900)	16500 (36300)	*27400 (60500)	23400 (51600)				
0 m (0')		10250 (22600)	7700 (16900)	14450 (31900)	11000 (24200)	19600 (43200)	14850 (32800)	28500 (62900)	21300 (47000)				
-3.0 m (-9')		12700 (28000)	9600 (21100)	14250 (31500)	10800 (23800)	19350 (42700)	14650 (32300)	*27050 (59700)	21400 (47200)	*34700 (76500)	*34700 (76500)	*31100 (68600)	*31100 (68600)
-6.0 m (-19')		*15150 (33400)	*15150 (33400)					*18250 (40200)	*18250 (40200)				

PC800-7 (SE spec.)

Conditions: Boom: 7100 mm (23'4"), Bucket (SAE): 4.3 m³ (5.62 cu.yd), Shoes: 610 mm (24")
(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2945 mm (9'8")													
6.0 m (19')		*13250 (29200)	11950 (26400)	*13450 (29600)	12800 (28200)	*15250 (33700)	*15250 (33700)	*18500 (40800)	*18500 (40800)				
3.0 m (9')		13000 (28600)	9950 (21900)	*15200 (33500)	11950 (26300)	*18750 (41300)	16700 (36800)	*25000 (55100)	24300 (53500)				
0 m (0')		13550 (29800)	10300 (22700)	14750 (32500)	11250 (24800)	20200 (44600)	15450 (34100)	*26850 (59200)	22450 (49500)	*27200 (59900)	*27200 (59900)		
-3.0 m (-9')		*15650 (34500)	14250 (31400)			*17200 (37900)	15550 (34300)	*22850 (50300)	22750 (50200)	*29600 (65300)	*29600 (65300)	*37150 (81900)	*37150 (81900)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2945 mm (9'8")													
6.0 m (19')		*15300 (33800)	11950 (26400)	*15550 (34200)	12800 (28200)	*17500 (38600)	*17500 (38600)	*21050 (46400)	*21050 (46400)				
3.0 m (9')		13000 (28600)	9950 (21900)	15450 (34100)	11950 (26300)	*21450 (47300)	16700 (36800)	*28400 (62700)	24300 (53500)				
0 m (0')		13550 (29800)	10300 (22700)	14750 (32500)	11250 (24800)	20200 (44600)	15450 (34100)	29750 (65600)	22450 (49500)	*30200 (66600)	*30200 (66600)		
-3.0 m (-9')		*18150 (40000)	14250 (31400)			*19850 (43800)	15550 (34300)	*26200 (57800)	22750 (50200)	*33850 (74700)	*33850 (74700)	*42600 (93900)	*42600 (93900)

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC800LC-8 (for USA)

Conditions: Boom: 8200 mm (26'11"), Bucket (SAE): 3.1 m³ (4.05 cu.yd), Shoes: 810 mm (32"), Counterweight: 13600 kg (29,980 lb)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3600 mm (11'10")													
9.1 m (30')		*8300 (18300)	*8300 (18300)										
6.1 m (20')		*8700 (19200)	*8700 (19200)	*13700 (30200)	*13700 (30200)	*15600 (34400)	*15600 (34400)						
3.0 m (10')		*10100 (22300)	9100 (20100)	*16350 (36000)	14550 (32000)	*19950 (44000)	19450 (42900)	*26400 (58200)	*26400 (58200)				
0.0 m (0')		*13200 (29100)	9050 (20000)	*18200 (40100)	13300 (29300)	*22700 (50000)	17600 (38800)	*29800 (65700)	24700 (54400)	*15650 (34500)	*15650 (34500)		
-3.0 m (-10')		*14900 (32900)	10700 (23600)	*17750 (39200)	12900 (28500)	*22150 (48900)	17100 (37700)	*28250 (62300)	24400 (53700)	*30400 (67000)	*30400 (67000)	*21500 (47400)	*21500 (47400)
-6.1 m (-20')		*15950 (35100)	*15950 (35100)			*16450 (36300)	*16450 (36300)	*21250 (46900)	*21250 (46900)	*27000 (59500)	*27000 (59500)		

Conditions: Boom: 8200 mm (26'11"), Bucket (SAE): 2.8 m³ (3.66 cu.yd), Shoes: 810 mm (32"), Counterweight: 13600 kg (29,980 lb)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		12.2 m (40')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 4600 mm (15'1")													
9.1 m (30')		*7000 (15400)	*7000 (15400)	*8150 (18000)	*8150 (18000)								
6.1 m (20')		*7250 (16000)	*7250 (16000)	*11200 (24600)	*11200 (24600)	*12100 (26700)	*12100 (26700)						
3.0 m (10')		*8300 (18300)	7950 (17500)	*13000 (28700)	11400 (25100)	*15050 (33200)	14900 (32900)	*18200 (40100)	*18200 (40100)	*23700 (52200)	*23700 (52200)		
0 m (0')		*10450 (23100)	7850 (17300)	*14600 (32200)	10450 (23000)	*17500 (38500)	13400 (29600)	*21850 (48100)	17850 (39300)	*28950 (63800)	25100 (55300)	*16900 (37200)	*16900 (37200)
-3.0 m (-10')		*13300 (29300)	8950 (19700)	*14700 (32400)	9950 (22000)	*18000 (39700)	12700 (28100)	*22500 (49600)	16900 (37300)	*29100 (64200)	24100 (53100)	*26700 (58900)	*26700 (58900)
-6.1 m (-20')		*14700 (32500)	13000 (28700)			*14800 (32600)	13050 (28800)	*19100 (42100)	17250 (38000)	*24400 (53800)	*24400 (53800)	*31950 (70400)	*31950 (70400)

Conditions: Boom: 8200 mm (26'11"), Bucket (SAE): 2.8 m³ (3.66 cu.yd), Shoes: 810 mm (32"), Counterweight: 13600 kg (29,980 lb)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		12.2 m (40')		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 5600 mm (18'4")															
9.1 m (30')		*4600 (10100)	*4600 (10100)	*4800 (10600)	*4800 (10600)										
6.1 m (20')		*4700 (10300)	*4700 (10300)	*7650 (16900)	*7650 (16900)	*9000 (19900)	*9000 (19900)								
3.0 m (10')		*5250 (11600)	*5250 (11600)	*10400 (22900)	8800 (19400)	*11650 (25700)	11450 (25200)	*13350 (29400)	*13350 (29400)	*15950 (35200)	*15950 (35200)	*20400 (44900)	*20400 (44900)		
0.0 m (0')		*6500 (14300)	6450 (14200)	*11650 (25700)	8000 (17700)	*13550 (29900)	10250 (22600)	*16200 (35800)	13300 (29300)	*20300 (44700)	17800 (39300)	*27000 (59500)	25250 (55700)	*17550 (38700)	*17550 (38700)
-3.0 m (-10')		*9050 (20000)	7200 (15900)	*11900 (26200)	7600 (16800)	*14350 (31600)	9550 (21000)	*17500 (38600)	12300 (27100)	*21950 (48400)	16450 (36200)	*28800 (63500)	23500 (51800)	*22950 (50600)	*22950 (50600)
-6.1 m (-20')		*12550 (27600)	9750 (21500)					*15900 (35100)	12250 (27000)	*20100 (44400)	16400 (36100)	*25900 (57100)	23600 (52100)	*34800 (76800)	*34800 (76800)

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC800LC-8 (UK source)

Conditions: Boom: 7100 mm, Bucket (SAE): 4.3 m³, Shoes: 810 mm

(Heavy-lifting: "ON")

unit: kg

B	A	MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2945 mm													
	6.0 m	*14550	12000	*15100	14500	*16800	*16800						
	3.0 m	*15150	10100	*17250	13300	*20850	18200	*27100	26150				
	0 m	15950	10300	*18600	12300	*23200	16550	*30400	23650	*32000	*32000		
	-3.0 m	*17250	13300			*21150	16400	*27450	23600	*36050	*36050	*40700	*40700

Conditions: Boom: 8040 mm, Bucket (SAE): 3.4 m³, Shoes: 810 mm

(Heavy-lifting: "ON")

unit: kg

B	A	MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3600 mm													
	9.0 m	*10150	*10150	*11350	*11350								
	6.0 m	*10550	9050	*12850	*12850	*14750	*14750						
	3.0 m	*11900	7650	*15400	*12800	*18950	17450	*25300	24850				
	0 m	12200	7550	*17200	11450	*21600	15400	*28600	21950	*22150	*22150		
	-3.0 m	*14000	9100	*16750	11100	*21100	14900	*27050	21650	*35650	*35650	*28900	*28900
	-6.0 m	*14850	*14850			*15250	*15250	*20000	*20000	*25600	*25600		

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC800-8 (SE spec.), PC800-8R (SE spec.)

Conditions: Boom: 7100 mm (23'4"), Bucket (SAE): 4.0 m³ (5.23 cu.yd), Shoes: 610 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2920 mm (9'7")													
6.0 m (19')		*12650 (27900)	10350 (22800)	*13150 (29000)	12650 (27900)	*14700 (32400)	*14700 (32400)						
3.0 m (9')		11300 (24900)	8550 (18900)	14850 (32800)	11450 (25200)	*18200 (40100)	15850 (34900)	*23800 (52500)	22950 (50600)				
0 m (0')		11550 (25400)	8650 (19100)	13850 (30500)	10450 (23000)	18800 (41400)	14200 (31300)	*26650 (58800)	20400 (45000)	*28900 (63800)	*28900 (63800)		
-3.0 m (-9')		*14900 (32800)	11350 (25000)			*18350 (40500)	14050 (31000)	*23950 (52800)	20400 (45000)	*31500 (69500)	*31500 (69500)	*36900 (81300)	*36900 (81300)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2920 mm (9'7")													
6.0 m (19')		13350 (29400)	10350 (22800)	*15100 (33300)	12650 (27900)	*16800 (37000)	*16800 (37000)						
3.0 m (9')		11300 (24900)	8550 (18900)	14850 (32800)	11450 (25200)	20550 (45300)	15850 (34900)	*27100 (59700)	22950 (50600)				
0 m (0')		11550 (25400)	8650 (19100)	13850 (30500)	10450 (23000)	18800 (41400)	14200 (31300)	27400 (60500)	20400 (45000)	*32000 (70500)	*32000 (70500)		
-3.0 m (-9')		15000 (33100)	11350 (25000)			18650 (41100)	14050 (31000)	27400 (60400)	20400 (45000)	*36050 (79500)	34500 (76000)	*40700 (89700)	*40700 (89700)

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC850-8, PC850-8R

Conditions: Boom: 8040 mm (26'5"), Bucket (SAE): 3.4 m³ (4.45 cu.yd), Shoes: 610 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3600 mm (11'10")													
6.0 m (19')		*9300 (20500)	8650 (19000)	*11050 (24400)	*11050 (24400)	*12800 (28200)	*12800 (28200)						
3.0 m (9')		9600 (21200)	7250 (15900)	*13250 (29200)	12250 (27000)	*16450 (36200)	*16450 (36200)	*22050 (48600)	*22050 (48600)				
0 m (0')		9600 (21200)	7100 (15700)	14400 (31800)	10900 (24000)	*18700 (41200)	14650 (32400)	*24850 (54800)	20950 (46200)	*19900 (43900)	*19900 (43900)		
-3.0 m (-9')		11500 (25400)	8600 (19000)	14000 (30900)	10500 (23200)	*18150 (40000)	14200 (31300)	*23400 (51600)	20650 (45600)	*30950 (68300)	*30950 (68300)	*26100 (57500)	*26100 (57500)
-6.0 m (-19')		*12600 (27700)	*12600 (27700)			*12900 (28500)	*12900 (28500)	*17100 (37700)	*17100 (37700)	*21900 (48300)	*21900 (48300)		

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3600 mm (11'10")													
6.0 m (19')		*10550 (23200)	8650 (19000)	*12850 (28400)	*12850 (28400)	*14750 (32500)	*14750 (32500)						
3.0 m (9')		9600 (21200)	7250 (15900)	*15400 (34000)	12250 (27000)	*19000 (41800)	*16700 (36900)	*25300 (55700)	23850 (52600)				
0 m (0')		9600 (21200)	7100 (15700)	14400 (31800)	10900 (24000)	19450 (42900)	14650 (32400)	28200 (62200)	20950 (46200)	*22150 (48800)	*22150 (48800)		
-3.0 m (-9')		11500 (25400)	8600 (19000)	14000 (30900)	10500 (23200)	18950 (41800)	14200 (31300)	*27050 (59600)	20650 (45600)	*35650 (78600)	35050 (77300)	*28900 (63700)	*28900 (63700)
-6.0 m (-19')		*14850 (32800)	14850 (32700)			*15250 (33600)	15200 (33600)	*20000 (44100)	*20000 (44100)	*25600 (56400)	*25600 (56400)		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC850-8 (SE spec.), PC850-8R (SE spec.)

Conditions: Boom: 7100 mm (23'4"), Bucket (SAE): 4.3 m³ (5.62 cu.yd), Shoes: 610 mm (24")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2920 mm (9'7")													
6.0 m (19')		*12650 (27900)	11500 (25300)	*13150 (29000)	*13150 (29000)	*14700 (32400)	*14700 (32400)						
3.0 m (9')		12500 (27500)	9650 (21300)	*15000 (33100)	12700 (28000)	*18200 (40100)	17450 (38500)	*23800 (52500)	*23800 (52500)				
0 m (0')		12800 (28200)	9800 (21600)	15300 (33700)	11750 (25900)	*20250 (44700)	15800 (34900)	*26650 (58800)	22650 (49900)	*28900 (63800)	*28900 (63800)		
-3.0 m (-9')		*14900 (32800)	12700 (28000)			*18350 (40500)	15700 (34600)	*23950 (52800)	22650 (49900)	*31500 (69500)	*31500 (69500)	*36900 (81300)	*36900 (81300)

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		9.0 m (29')		7.5 m (24')		6.0 m (19')		4.5 m (14')		3.0 m (9')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2920 mm (9'7")													
6.0 m (19')		*14550 (32100)	11500 (25300)	*15100 (33300)	13950 (30700)	*16800 (37000)	*16800 (37000)						
3.0 m (9')		12500 (27500)	9650 (21300)	16300 (35900)	12700 (28000)	*20850 (45900)	17450 (38500)	*27100 (59700)	25150 (55500)				
0 m (0')		12800 (28200)	9800 (21600)	15300 (33700)	11750 (25900)	20650 (45500)	15800 (34900)	30000 (66200)	22650 (49900)	*32000 (70500)	*32000 (70500)		
-3.0 m (-9')		16550 (36400)	12700 (28000)			20500 (45200)	15700 (34600)	*27450 (60500)	22650 (49900)	*36050 (79500)	36050 (79500)	*40700 (89700)	*40700 (89700)

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC1250-8, PC1250-8R

Conditions: Boom: 9100 mm (29'10"), Bucket (SAE): 5.0 m³ (6.54 cu.yd), Shoes: 700 mm (28")
(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		12.2 m (40')		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3400 mm (11'2")															
9.1 m (30')	*15200 (33500)	*15200 (33500)			*18000 (39700)	*18000 (39700)									
6.1 m (20')	*15950 (35150)	13200 (29100)			*20050 (44200)	17400 (38400)	*22950 (50600)	*22950 (50600)	*27900 (61500)	*27900 (61500)					
3.0 m (10')	15650 (34500)	11850 (26200)	16400 (36100)	12500 (27500)	20850 (46000)	16100 (35500)	27000 (59500)	20850 (46000)	*34950 (77100)	27650 (60900)					
0.0 m (0')	16250 (35900)	12300 (27100)			19950 (44000)	15200 (33500)	24200 (53400)	18200 (40200)	34400 (75800)	26100 (57500)					
-3.0 m (-10')	19950 (44000)	15250 (33600)			20000 (44100)	15250 (33700)	25600 (56400)	19550 (43100)	34600 (76300)	26300 (57900)	*43850 (96700)	38400 (84700)	*39250 (86600)	*39250 (86600)	
-6.1 m (-20')	*23500 (51800)	*23500 (51800)							*25400 (56100)	*25400 (56100)	*32550 (71800)	*32550 (71800)			

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		12.2 m (40')		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3400 mm (11'2")															
9.1 m (30')	*15200 (33500)	*15200 (33500)			*15500 (34200)	*15500 (34200)									
6.1 m (20')	*15850 (34900)	13200 (29100)			*17300 (38100)	*17300 (38100)	*19950 (44000)	*19950 (44000)	*24400 (53800)	*24400 (53800)					
3.0 m (10')	15650 (34500)	11850 (26200)	16400 (36100)	12500 (27500)	*19800 (43700)	16100 (35500)	*23900 (52700)	20850 (46000)	*30550 (67400)	27650 (60900)					
0.0 m (0')	16250 (35900)	12300 (27100)			19950 (44000)	15200 (33500)	24200 (53400)	18200 (40200)	*32650 (72000)	26100 (57500)					
-3.0 m (-10')	*19600 (43200)	15250 (33600)			*19650 (43300)	15250 (33700)	*24750 (54600)	19550 (43100)	*30750 (67800)	26300 (57900)	*38350 (84500)	*38350 (84500)	*39250 (86600)	*39250 (86600)	
-6.1 m (-20')	*20150 (44500)	*20150 (44500)							*21900 (48200)	*21900 (48200)	*28150 (62100)	*28150 (62100)			

Conditions: Boom: 9100 mm (29'10"), Bucket (SAE): 4.0 m³ (5.2 cu.yd), Shoes: 700 mm (28")
(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		12.2 m (40')		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 4500 mm (14'9")															
9.1 m (30')	*9300 (20500)	*9300 (20500)													
6.1 m (20')	*9650 (21300)	*9650 (21300)	*16650 (36700)	13700 (30200)	*18150 (40000)	18000 (39700)	*20550 (45400)	*20550 (45400)							
3.0 m (10')	*10950 (24200)	10200 (22500)	16650 (36700)	12750 (28100)	21200 (46700)	16400 (36100)	*25600 (56500)	21300 (47000)	*32350 (71400)	28500 (62800)					
0.0 m (0')	*13650 (30100)	10400 (23000)	15850 (34900)	11950 (26400)	19900 (43900)	15150 (33400)	24550 (54100)	18500 (40800)	34450 (75900)	26100 (57600)	*29300 (64600)	29300 (64600)			
-3.0 m (-10')	16400 (36200)	12400 (27300)			19550 (43100)	14800 (32600)	25100 (55400)	19050 (42000)	34000 (75000)	25700 (56600)	*46350 (102200)	37500 (82600)	*31900 (70300)	*31900 (70300)	
-6.1 m (-20')	*21750 (48000)	18700 (41300)					*23650 (52100)	20000 (44100)	*28850 (63600)	25200 (55500)	*38200 (84300)	*38200 (84300)	*48900 (107800)	*48900 (107800)	

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		12.2 m (40')		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 4500 mm (14'9")															
9.1 m (30')	*9300 (20500)	*9300 (20500)													
6.1 m (20')	*9650 (21300)	*9650 (21300)	*14250 (31400)	13700 (30200)	*15600 (34400)	*15600 (34400)	*17850 (39300)	*17850 (39300)							
3.0 m (10')	*10950 (24200)	10200 (22500)	*16050 (35400)	12750 (28100)	*18500 (40800)	16400 (36100)	*22250 (49000)	21300 (47000)	*28250 (62300)	*28250 (62300)					
0.0 m (0')	*13650 (30100)	10400 (23000)	15850 (34900)	11950 (26400)	19900 (43900)	15150 (33400)	*24200 (53300)	18500 (40800)	*31950 (70400)	26100 (57600)	*29300 (64600)	*29300 (64600)			
-3.0 m (-10')	16400 (36200)	12400 (27300)			19550 (43100)	14800 (32600)	25100 (55400)	19050 (42000)	*31650 (69800)	25700 (56600)	*40550 (89400)	37500 (82600)	*31900 (70300)	*31900 (70300)	
-6.1 m (-20')	*18650 (41100)	18650 (41100)					*20300 (44800)	20000 (44100)	*24800 (54700)	24800 (54700)	*33200 (73200)	*33200 (73200)	*42600 (93900)	*42600 (93900)	

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC1250-8, PC1250-8R

Conditions: Boom: 9100 mm (29'10"), Bucket (SAE): 3.4 m³ (4.4 cu.yd), Shoes: 700 mm (28")
 (Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		13.7 m (45')		12.2 m (40')		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 5700 mm (18'8")															
9.1 m (30')		*5900 (1300)	*5900 (13000)												
6.1 m (20')		*6050 (13400)	*6050 (13400)	*11050 (24300)	10950 (24100)	*14950 (32900)	14350 (31600)								
3.0 m (10')		*6800 (15000)	*6800 (15000)	13550 (29900)	10250 (22600)	17050 (37600)	13100 (28900)	*19800 (43700)	16900 (37200)	*23450 (51700)	22050 (48600)	*29300 (64600)	*29300 (64600)	*39750 (87600)	*39750 (87600)
0.0 m (0')		*8400 (18500)	*8400 (18500)	12850 (28400)	9600 (21100)	15950 (35200)	12050 (26600)	20100 (44300)	15300 (33800)	25900 (57100)	19800 (43600)	34800 (76700)	26450 (58300)	*31200 (68800)	*31200 (68800)
-3.0 m (-10')		*11500 (25400)	10150 (22400)			15500 (34100)	11600 (25600)	19300 (42600)	14600 (32100)	24850 (54800)	18800 (41500)	33600 (74100)	25300 (55800)	*47600 (105000)	36800 (81100)
-6.1 m (-20')		18600 (41000)	14100 (31100)					19750 (43500)	15000 (33000)	25200 (55600)	19150 (42200)	*33250 (73300)	25850 (56900)	*42350 (93300)	37850 (83400)

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		13.7 m (45')		12.2 m (40')		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 5700 mm (18'8")															
9.1 m (30')		*5900 (1300)	*5900 (13000)												
6.1 m (20')		*6050 (13400)	*6050 (13400)	*11050 (24300)	10950 (24100)	*12700 (28000)	*12700 (28000)								
3.0 m (10')		*6800 (15000)	*6800 (15000)	*13350 (29500)	10250 (22600)	*14850 (32800)	13100 (28900)	*17050 (37600)	16900 (37200)	*20300 (44800)	*20300 (44800)	*25550 (56300)	*25550 (56300)	*34850 (76800)	*34850 (76800)
0.0 m (0')		*8400 (18500)	*8400 (18500)	12850 (28400)	9600 (21100)	15950 (35200)	12050 (26600)	*19700 (43400)	15300 (33800)	*24000 (53000)	19800 (43600)	*30600 (67500)	26450 (58300)	*31200 (68800)	*31200 (68800)
-3.0 m (-10')		*11500 (25400)	10150 (22400)			15500 (34100)	11600 (25600)	19300 (42600)	14600 (32100)	24850 (54800)	18800 (41500)	*31900 (70300)	25300 (55800)	*41650 (91800)	36600 (81100)
-6.1 m (-20')		*16550 (36500)	14100 (31100)					*18050 (39800)	15000 (33000)	*22950 (50600)	19150 (42200)	*28850 (63600)	25850 (56900)	*36900 (81300)	*36900 (81300)

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC1250-7

Conditions: Boom: 9100 mm (29'10"), Bucket (SAE): 5.0 m³ (6.54 cu.yd), Shoes: 700 mm (28")
 (Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		12.2 m (40')		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3400 mm (11'2")															
9.1 m (30')	*15200 (33500)	*15200 (33500)			*15500 (34200)	*15500 (34200)									
6.1 m (20')	*15850 (34900)	12900 (28500)			*17300 (38100)	17100 (37700)	*19950 (44000)	*19950 (44000)	*24400 (53800)	*24400 (53800)					
3.0 m (10')	15350 (33800)	11600 (25600)	16050 (35400)	12200 (26900)	*19800 (43700)	15750 (34800)	*23900 (52700)	20500 (45200)	*30550 (67400)	27150 (59800)					
0.0 m (0')	15950 (35200)	12050 (26500)			19600 (43200)	14900 (32800)	23750 (52400)	17850 (39300)	*32650 (72000)	25600 (56400)					
-3.0 m (-10')	*19600 (43200)	14900 (32900)			*19650 (43300)	14950 (33000)	*24750 (54600)	19150 (42200)	*30750 (67800)	25800 (56800)	*38350 (84500)	37750 (83200)	*39250 (86600)	*39250 (86600)	
-6.1 m (-20')	*20150 (44500)	*20150 (44500)							*21900 (48200)	*21900 (48200)	*28150 (62100)	*28150 (62100)			

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		12.2 m (40')		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3400 mm (11'2")															
9.1 m (30')	*15200 (33500)	*15200 (33500)			*18000 (39700)	17900 (39400)									
6.1 m (20')	*15950 (35100)	12900 (28500)			*20000 (44200)	17100 (37700)	*22950 (50600)	22750 (50200)	*27900 (61500)	*27900 (61500)					
3.0 m (10')	15350 (33800)	11600 (25600)	16050 (35400)	12200 (26900)	20500 (45200)	15750 (34800)	26550 (58600)	20500 (45200)	*34950 (77000)	27150 (59800)					
0.0 m (0')	15950 (35200)	12050 (26500)			19600 (43200)	14900 (32800)	23750 (52400)	17850 (39300)	33800 (74600)	25600 (56400)					
-3.0 m (-10')	19600 (43200)	14900 (32900)			19650 (43300)	14950 (33000)	25150 (55400)	19150 (42200)	34050 (75000)	25800 (56800)	*43850 (96700)	37750 (83200)	*39250 (86600)	*39250 (86600)	
-6.1 m (-20')	*23500 (51800)	*23500 (51800)							*25400 (56000)	*25400 (56000)	*32550 (71700)	*32550 (71700)			

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC1250LC-7

Conditions: Boom: 9100 mm (29'10"), Bucket (SAE): 5.2 m³ (6.80 cu.yd), Shoes: 1000 mm (39")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		12.2 m (40')		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3400 mm (11'2")															
9.1 m (30')		*15200 (33500)	*15200 (33500)			*15500 (34200)	*15500 (34200)								
6.1 m (20')		*15850 (34900)	13850 (30500)			*17300 (38100)	*17300 (38100)	*19950 (44000)	*19950 (44000)	*24400 (53800)	*24400 (53800)				
3.0 m (10')		*16750 (36900)	12500 (27600)	*17150 (37800)	13150 (29000)	*19800 (43700)	16850 (37200)	*23900 (52700)	21800 (48100)	*30550 (67400)	28850 (63600)				
0.0 m (0')		*18050 (39800)	12950 (28600)			*21250 (46900)	15950 (35200)	*24700 (54400)	19150 (42200)	*32650 (72000)	27300 (60100)				
-3.0 m (-10')		*19600 (43200)	16000 (35300)			*19650 (43300)	16050 (35400)	*24750 (54600)	20450 (45100)	*30750 (67800)	27450 (60600)	*38350 (84500)	*38350 (84500)	*39250 (86600)	*39250 (86600)
-6.1 m (-20')		*20150 (44500)	*20150 (44500)							*21900 (48200)	*21900 (48200)	*28150 (62100)	*28150 (62100)		

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		12.2 m (40')		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3400 mm (11'2")															
9.1 m (30')		*15200 (33500)	*15200 (33500)			*18000 (39700)	*18000 (39700)								
6.1 m (20')		*15950 (35100)	13850 (30500)			*20000 (44200)	18200 (40100)	*22950 (50600)	*22950 (50600)	*27900 (61500)	*27900 (61500)				
3.0 m (10')		*18300 (40300)	12500 (27600)	*19950 (43900)	13150 (29000)	*22900 (50500)	16850 (37200)	*27500 (60600)	21800 (48100)	*34950 (77000)	28850 (63600)				
0.0 m (0')		*21000 (46300)	12950 (28600)			*24600 (54200)	15950 (35200)	*28550 (63000)	19150 (42200)	*37400 (82400)	27300 (60100)				
-3.0 m (-10')		*22700 (50100)	16000 (35300)			*22800 (50200)	16050 (35400)	*28550 (62900)	20450 (45100)	*35300 (77800)	27450 (60600)	*43850 (96700)	40100 (88400)	*39250 (86600)	*39250 (86600)
-6.1 m (-20')		*23500 (51800)	*23500 (51800)							*25400 (56000)	*25400 (56000)	*32550 (71700)	*32550 (71700)		

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC1250-8 (SP spec.), PC1250-8R (SP spec.)

Conditions: Boom: 7800 mm (25'7"), Bucket (SAE): 6.7 m³ (8.8 cu.yd), Shoes: 700 mm (28")

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		12.2 m (40')		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3400 mm (11'2")															
9.1 m (30')		*11700 (25800)	*11700 (25800)					*17050 (37600)	*17050 (37600)						
6.1 m (20')		*12250 (27000)	*12250 (27000)			*16300 (35900)	16100 (35600)	*24350 (53700)	22600 (49800)	*28750 (63400)	*28750 (63400)	*36350 (80100)	*36350 (80100)		
3.0 m (10')		*14600 (32200)	13700 (30200)			20150 (44400)	15300 (33800)	26950 (59500)	20750 (45700)	*33850 (74700)	27000 (59600)	*47450 (104600)	41150 (90700)		
0.0 m (0')		19300 (42600)	14550 (32000)			19400 (42800)	14600 (32200)	25600 (56400)	19450 (42900)	31750 (70000)	23500 (51800)	*48750 (107500)	38650 (85200)		
-3.0 m (-10')		*23900 (52700)	19550 (43100)					*23950 (52900)	19550 (43100)	*30750 (67800)	24850 (54800)	*41450 (91300)	39250 (86500)	*52450 (115700)	*52450 (115700)
-6.1 m (-20')															

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		12.2 m (40')		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3400 mm (11'2")															
9.1 m (30')		*11700 (25800)	*11700 (25800)					*17050 (37600)	*17050 (37600)						
6.1 m (20')		*12250 (27000)	*12250 (27000)			*16300 (35900)	16100 (35600)	*21150 (46600)	*21150 (46600)	*25150 (55500)	*25150 (55500)	*32100 (70800)	*32100 (70800)		
3.0 m (10')		*14600 (32200)	13700 (30200)			20150 (44400)	15300 (33800)	*24450 (54000)	20750 (45700)	*29450 (65000)	27000 (59600)	*41750 (92000)	41150 (90700)		
0.0 m (0')		19300 (42600)	14550 (32000)			19400 (42800)	14600 (32200)	25600 (56400)	19450 (42900)	*29900 (65900)	23500 (51800)	*42750 (94300)	38650 (85200)		
-3.0 m (-10')		*20500 (45200)	19550 (43100)					*20550 (45300)	19550 (43100)	*26450 (58300)	24850 (54800)	*36100 (79600)	*36100 (79600)	*45800 (100800)	*45800 (100800)
-6.1 m (-20')															

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PC2000-8

Conditions: Boom: 8700 mm (28'7"), Bucket (SAE): 12.0 m³ (15.7 cu.yd), Shoes: 810 mm (32")

(Heavy-lifting: "OFF")

unit: kg (lb)

B	A	MAX		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3900 mm (12'10")															
6.1 m (20')		*21950 (48400)	*21950 (48400)	*33350 (73500)	*33350 (73500)	*38650 (85200)	*38650 (85200)	*46700 (102900)	*46700 (102900)						
3.0 m (10')		*25500 (56100)	24100 (53100)	*37150 (81900)	36050 (79400)	*44850 (98800)	*44850 (98800)	*56550 (124700)	*56550 (124700)						
0.0 m (0')		*29800 (65700)	25050 (55200)	*38500 (84800)	33600 (74100)	*47150 (103900)	43450 (95800)	*59400 (130900)	58650 (129300)	*68850 (151800)	*68850 (151800)				
-3.0 m (-10')		*30350 (66900)	*30350 (66900)	*33700 (74300)	33200 (73200)	*42650 (94000)	*42650 (94000)	*53300 (117400)	*53300 (117400)	*67000 (147700)	*67000 (147700)	*68250 (150400)	*68250 (150400)	*50150 (110600)	*50150 (110600)
-6.1 m (-20')		*27000 (59500)	*27000 (59500)					*33150 (73100)	*33150 (73100)	*42200 (93000)	*42200 (93000)	*50800 (111900)	*50800 (111900)		

(Heavy-lifting: "ON")

unit: kg (lb)

B	A	MAX		10.7 m (35')		9.1 m (30')		7.6 m (25')		6.1 m (20')		4.6 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3900 mm (12'10")															
6.1 m (20')		*24850 (54800)	*24850 (54800)	*38350 (84500)	*38350 (84500)	*44150 (97300)	*44150 (97300)	*52950 (116700)	*52950 (116700)						
3.0 m (10')		*28700 (63200)	24100 (53100)	*42800 (94300)	36050 (79400)	*51300 (113100)	475050 (103700)	*64450 (142000)	63650 (140300)						
0.0 m (0')		*34100 (75200)	25050 (55200)	*44400 (97900)	33600 (74100)	*54150 (119400)	43450 (95800)	*67900 (149600)	58650 (129300)	*62450 (137600)	*62450 (137600)				
-3.0 m (-10')		*35550 (78300)	30600 (67400)	*39250 (86500)	33200 (73200)	*49300 (108600)	42700 (94100)	*61300 (135100)	57500 (127800)	*64650 (142500)	*64650 (142500)	*61500 (135600)	*61500 (135600)	*55650 (122700)	*55650 (122700)
-6.1 m (-20')		*32150 (70800)	*32150 (70800)					*39150 (86200)	*39150 (86200)	*49500 (109000)	*49500 (109000)	*59650 (131500)	*59650 (131500)		

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on SAE Standard NO. J/ISO10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping loa

SECTION **2D**

ATTACHMENTS

CONTENTS

Buckets & Rippers for Backhoe:

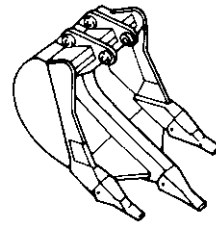
- Ripper Bucket 2D-2
- Trapezoidal Bucket 2D-2
- Slope Finishing Bucket 2D-2
- Ditch Cleaning Bucket 2D-2
- Single-shank Ripper 2D-2
- Clamshell Bucket 2D-2
- Coal Bucket and Chip Bucket 2D-3
- Chip Yard Bucket 2D-3

Attachments for General Construction:

- Telescopic Arm (Box Slide Type) 2D-4
- Telescopic Arm (Upper Arm Sliding Type) 2D-4
- Super Long Front 2D-5

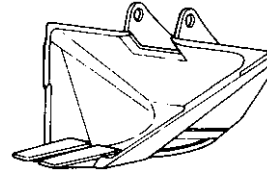
Ripper Bucket

Suitable for digging rock bed or hard clayey soil when normal buckets cannot penetrate deep enough. Loading is also possible.



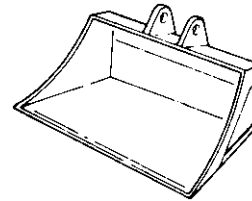
Trapezoidal Bucket

Performs digging and sloping simultaneously on a drainage or irrigation canal. Using this bucket will leave the digging profile shaped as a cross-section.



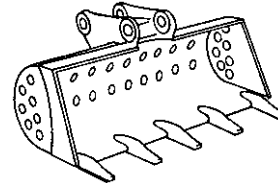
Slope Finishing Bucket

The wide bucket width and flat bottom make this bucket suitable for smoothing the slopes of irrigation canals, roads or river banks.



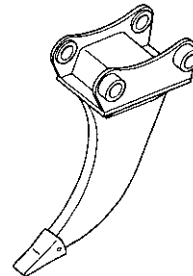
Ditch Cleaning Bucket

Most suitable for cleaning a river or dredging soft soil from the river bed. The bucket has small holes which allow the water to drain, retaining only solid objects of the ditch.



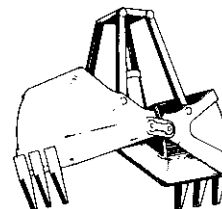
Single-shank Ripper

This ripper is used for site preparation prior to digging work, when it becomes necessary to remove rocks, pavement for other obstacles. Also effective for pulling out tree stumps.



Clamshell Bucket

- Improved work efficiency with the clamshell bucket pushing method.
- Handy 360-degree manual rotation
- Superb earth digging and discharge performance



Coal Bucket and Chip Bucket

An excavator with INBOARD MATERIAL HANDLING SPECS greatly improves the working efficiency, safety and working environment when handling inboard materials like coal or chip and, in addition, its introduction leads to labor-savings.

Coal bucket

Bucket capacity : 1.3m³ (PC130, PC138US)

Chip bucket

Bucket capacity : 1.9m³ (PC130, PC138US)



PC130 (FOR COAL HANDLING SPECS)



FOR CHIP HANDLING SPECS

Chip Yard Bucket

An excavator with CHIP YARD SPECS provides a large capacity bucket which increases its loading efficiency higher and chip-proof structure to protect chip intrusion from the hood and exterior covers around the engine.

Bucket capacity

PC350LC 6.0m³

PC400 7.0m³ (Loader shovel)

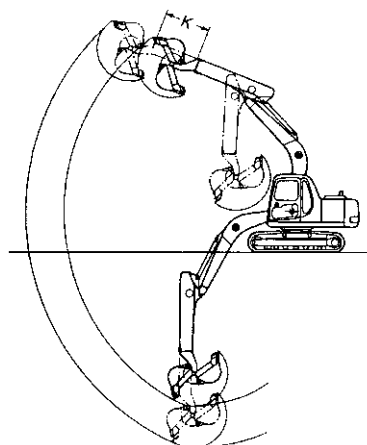


PC400

Telescopic Arm (Box Slide Type)

- Most suited to deep excavation in a closely built-up area or in a site near overhead obstacles such as power cables which limits the size of machine that can be used.
- Greatly increases working range, being capable of the same as machines two classes higher.
- Light but highly rigid box type arm.

Unit : mm (ft in)	
	Sliding amount (K)
PC78US	1100 (3'7")



Telescopic Arm (Upper Arm Sliding Type)

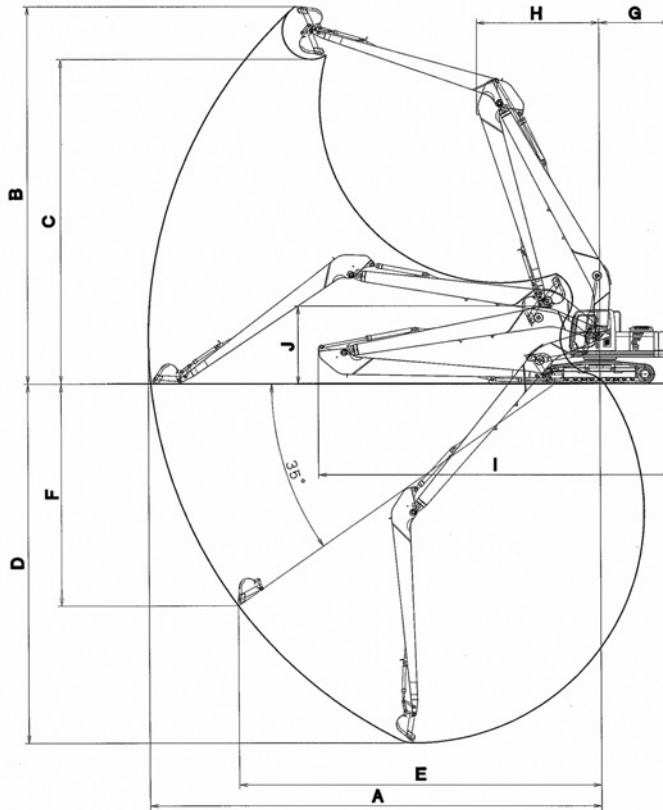
- With the arm elongated, the machine can dig to the same depth as machines three classes higher. Useful attachment for restricted job sites where a wide working range is needed. Also slope-finishing work can be done with ease.
- Sliding mechanism using rollers on the slide surfaces makes adjustment easy and prevents vertical and horizontal vibrations of the arm, minimizing the wear which shortens arm life.
- Thanks to the hydraulic sliding system, the arm telescopes speedily, providing high working efficiency.

Unit : mm (ft in)	
	Sliding amount (K)
PC130	2100 (6'11")
PC200LC	2430 (8'0")
PC78US	1800 (5'11")
PC138US	2100 (6'11")
PC228USLC	2430 (8'0")

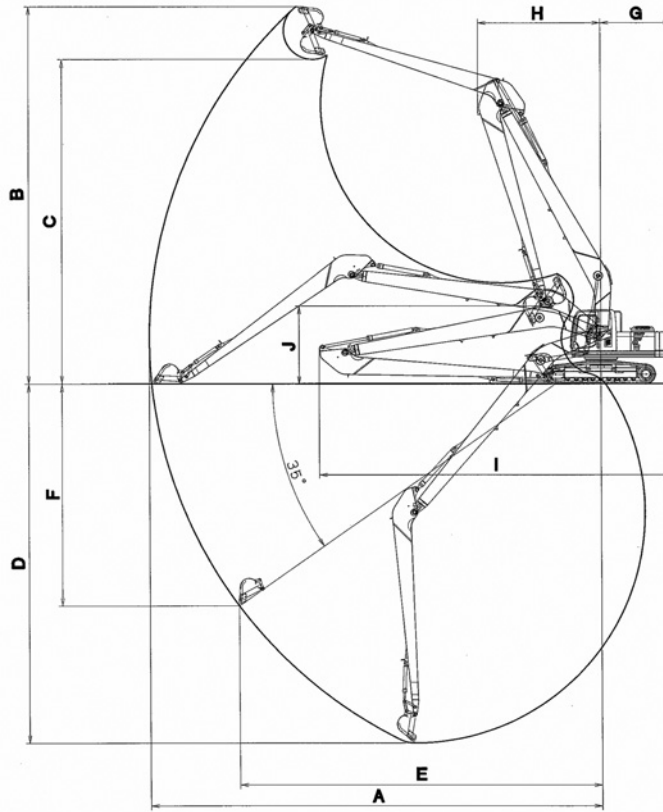


Super Long Front

SUPER LONG FRONT attachment boasts a huge digging reach. An excavator with this attachment highly improves working efficiency in various works such as river conservation, lake dredging, slope-finishing and materials carrying where an extensively long reach is required.



Model		PC130	PC200	PC200LC	PC200LC
		12.3m (40') reach	15m (49') reach	15m (49') reach	18m (59') reach
Operating weight	kg (lb)	12,600 (27,780)	21,700 (47,840)	23,100 (50,930)	26,400 (58,200)
Max. bucket capacity (SAE heaped)	m ³ (cu.yd)	0.28 (0.37)	0.37 (0.48)	0.45 (0.59)	0.29 (0.38)
Bucket width (with side cutters)	mm (ft.in)	750 (2'6")	860 (2'10")	955 (3'2")	720 (2'4")
Standard shoe width	mm (in)	500 (20")	600 (24")	700 (28")	700 (28")
Ground pressure	kg/cm ² (PSI)	0.41 (5.8)	0.50 (7.1)	0.41 (5.8)	0.47 (6.7)
J Overall length	mm (ft.in)	9,920 (32'7")	12,510 (41'1")	12,510 (41'1")	14,360 (47'1")
I Overall height	mm (ft.in)	2,835 (9'4")	3,080 (10'1")	3,080 (10'1")	3,190 (10'6")
Boom length	m (ft.in)	6.9 (22'8")	8.6 (28'3")	8.6 (28'3")	10.3 (33'10")
Arm length	m (ft.in)	4.9 (16'1")	6.4 (21'0")	6.4 (21'0")	8.2 (26'11")
A Working range : Max. digging reach	mm (ft.in)	12,330 (40'5")	15,250 (50'0")	15,250 (50'0")	18,340 (60'2")
B Max. digging height	mm (ft.in)	11,640 (38'2")	13,730 (45'1")	13,730 (45'1")	15,380 (50'6")
C Max. dumping height	mm (ft.in)	9,600 (31'6")	11,520 (37'10")	11,520 (37'10")	13,225 (43'5")
D Max. digging depth	mm (ft.in)	9,190 (30'2")	11,530 (37'10")	11,530 (37'10")	14,610 (47'11")
E Digging reach at 35° angle	mm (ft.in)	9,850 (32'4")	12,130 (39'10")	12,190 (40'0")	14,730 (48'4")
F Digging depth at 35° angle	mm (ft.in)	5,900 (19'4")	7,350 (24'1")	7,260 (23'10")	9,030 (29'8")
G Tail swing radius	mm (ft.in)	2,190 (7'2")	4,000 (13'1")	4,000 (13'1")	4,980 (16'4")
H Min. swing radius	mm (ft.in)	2,875 (9'5")	2,940 (9'8")	2,940 (9'8")	2,940 (9'8")



Item		Model	PC220LC	PC300LC	PC400LC
			18m (59') reach	16.5m (54') reach	20m (65') reach
Operating weight	kg (lb)	26,950 (59,410)	35,600 (78,480)	49,400 (108,900)	
Max. bucket capacity (SAE heaped)	m ³ (cu.yd)	0.45 (0.59)	0.69 (0.90)	0.8 (1.05)	
Bucket width (with side cutters)	mm (ft.in)	955 (3'2")	930 (3'1")	1030 (3'5")	
Standard shoe width	mm (in)	700 (28")	700 (28")	700 (28")	
Ground pressure	kg/cm ² (PSI)	0.47 (6.7)	0.58 (8.3)	0.75 (10.7)	
J Overall length	mm (ft.in)	14,430 (47'4")	13,930 (45'8")	16,150 (53'0")	
I Overall height	mm (ft.in)	3,190 (10'6")	3,490 (11'5")	3,660 (12'0")	
Boom length	m (ft.in)	10.3 (33'10")	9.2 (30'2")	11.1 (36'5")	
Arm length	m (ft.in)	8.2 (26'11")	6.4 (21'0")	8.3 (27'3")	
A Working range : Max. digging reach	mm (ft.in)	18,360 (60'3")	16,570 (54'4")	19,680 (64'7")	
B Max. digging height	mm (ft.in)	15,120 (49'7")	12,740 (41'10")	14,990 (49'2")	
C Max. dumping height	mm (ft.in)	12,980 (42'7")	9,930 (32'7")	12,200 (40'0")	
D Max. digging depth	mm (ft.in)	14,645 (48'1")	12,720 (41'9")	14,800 (48'7")	
E Digging reach at 35° angle	mm (ft.in)	14,895 (48'10")	13,250 (43'6")	15,770 (51'9")	
F Digging depth at 35° angle	mm (ft.in)	8,810 (28'11")	7,890 (25'11")	9,520 (31'3")	
G Tail swing radius	mm (ft.in)	4,980 (16'4")	3,600 (11'10")	3,795 (12'5")	
H Min. swing radius	mm (ft.in)	2,940 (9'8")	6,130 (20'1")	6,790 (22'3")	

SECTION **2E**

**HYDRAULIC
LOADING SHOVELS**

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Komatsu Mining Shovel Front Shovel Features

High production with low running costs

High digging forces provide fast cycle times and low cost per tonnage

Environmental harmony

- Komatsu engines which meet EPA, EU and Japan emission regulations
- Extended oil change intervals and filter replacement intervals to reduce environmental impacts
- Long term experience in use of biological hydraulic oils and lubricants, as an option available

Large, comfortable and safe mining operator's cab

- Integrated FOPS structure according to ISO 3449
- Internal floor area about 4.2 m²
- Large windows for good all around visibility
- Side sliding windows
- Pressurised to keep dust out
- Noise level in cab approx. 76 dB(A) according ISO 63096
- High intensive XENON working lights.
- Cab heating and air conditioner of 10 kW
- Comfortable multi-functional operator seat with internal heating
- Second swing out fold away seat for trainer
- Wash-hand basin
- Refrigerator

ECS or VHMS monitoring system for greater machine efficiency and low maintenance time

- Comprehensive overview of shovel functions with operator friendly display
- Optional data transfer possibility via Modular Mining System controller
- All important machine running data are monitored and electronically stored, with down load facility
- Acoustic and visually alarms warn of machine malfunctions

Komatsu Engine

- Latest engine technology compliant with emission regulations
- Engine life time self cleaning stainless steel engine oil filter (ELIMINATOR) to avoid filter change; only filter cleaning at every 1000 hours is required
- Engine oil management system (Reserve and Centinel system) to extend oil change intervals up to 4000 hours
- Fuel tank capacity for continuous work up to 24 hours

Electric drive as option

- Electric motor 6600/7200 V and 50 or 60 Hz available
- Squirrel cage motor with soft start
- Optimized electrical design for all international standards
- Compact design with low vibration and noise
- Cable drum with automatic tensioning, as option

Komatsu hydraulic system HYDRO-PILOT

- Multi-circuit hydraulic system with electronic load governor, pump flow summation capability, and oil flow priority based on demand, for fast working cycles and high productivity
- All main hydraulic circuits are run at one pressure level only, simplifying pressure adjustment and service
- Each circuit with connection facility for pressure check gauges
- Changing from front shovel to backhoe is simple
- Un-pressurised hydraulic tank with large pump suction lines and low pump speed prevents risk of cavitation
- Each hydraulic circuit protected with high pressure filters
- Full flow 10 µm return line filters for system safety and for supplementary circuits 3 µm by-pass filter to improve oil quality for long component lifetime
- Swing out hydraulic cooler for simple cleaning to keep the cooling efficiency
- Float valves for improved hydraulic system

Heavy-duty shovel undercarriage design

- Komatsu Mining track system with oscillating shoes for optimum response to rugged mining ground conditions
- Lifetime lubricated rollers
- Automatic track tensioning system
- Track shoes in high quality casting steel and engineered by finite element method
- Precision hard facing of contact surfaces for long term performance
- Different width of shoes available for best performance in softer mining ground conditions

Attachments

- Front shovel attachment available for all mining applications
- Closed box design combining steel plates and castings, engineered by finite element method for full lifetime
- Wide selection of buckets and customised options
- Bucket wear package ranges to meet all mining conditions
- Attachment pin sealing arrangement for reduced bearing wear-parts costs

Service

- Hydraulically assisted ladder for ease and convenience access
- Upper structure walkway allows safe access to all service points
- Walk in machinery house provides all weather protection for service attention
- Automatic central lubrication system for attachment and main swing bearing
- Swing down service arm for fast, ground level refilling and evacuation and the minimizing of leakages during service
- Complete machine delivered in pre-tested modules for fast erection on job site

Specifications

HYDRAULIC LOADING SHOVELS

Item	Model		•PC400-8 PC400-8R	•PC400-8*** PC400-8R***	PC400-7	PC400-7***
OPERATING WEIGHT*		kg (lb)	43440 (95,770)	44700 (98,550)	43100 (95,020)	44100 (97,200)
HORSEPOWER	SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	270 (362)/1900 257 (345)/1900	270 (362)/1900 257 (345)/1900	259 (347)/1850 246 (330)/1850	259 (347)/1850 246 (330)/1850
BUCKET CAPACITY RANGE		m ³ (cu.yd)	2.6 (3.4)	2.6 (3.4)	2.6 (3.4)	2.6 (3.4)
PERFORMANCE:						
Swing speed		RPM	9.1	9.1	9.0	9.0
Max.travel speed	Hi Mi Lo	km/h (MPH)	5.5 (3.4) 4.0 (2.5) 3.0 (1.9)	5.5 (3.4) 4.0 (2.5) 3.0 (1.9)	5.5 (3.4) 4.4 (2.7) 3.0 (1.9)	5.5 (3.4) 4.4 (2.7) 3.0 (1.9)
DIMENSIONS:		See the page of DIMENSIONS				
ENGINE:			KOMATSU	KOMATSU	KOMATSU	KOMATSU
Model			SAA6D125E-5	SAA6D125E-5	SAA6D125E-3	SAA6D125E-3
No. of cylinders-		mm	6-125 × 150	6-125 × 150	6-125 × 150	6-125 × 150
bore × stroke		(in)	(4.92 × 5.91)	(4.92 × 5.91)	(4.92 × 5.91)	(4.92 × 5.91)
Piston displacement		ltr. (cu.in)	11.04 (673)	11.04 (673)	11.04 (673)	11.04 (673)
HYDRAULIC SYSTEM:			2 × Variable	2 × Variable	2 × Variable	2 × Variable
Hydraulic pump			Piston	Piston	Piston	Piston
Max. oil flow		ltr. (U.S. Gal)/min.	690 (182)	690 (182)	690 (182)	690 (182)
Max. oil pressure (Implement)		kg/cm ² (PSI)	355 (5050)	355 (5050)	355 (5050)	355 (5050)
TRACK SHOES:						
Width/ground pressure		mm (in)/ kg/cm ² (PSI)	600 (24)/ 0.83 (11.8)	600 (24)/ 0.85 (12.1)	600 (24)/ 0.83 (11.8)	600 (24)/ 0.85 (12.1)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S. Gal)	650 (1727)	650 (1727)	650 (172)	650 (172)
Hydraulic oil tank			248 (65.5)	248 (65.5)	248 (65.5)	248 (65.5)
MACHINE SPEC:						
Boom		mm (ft.in)	4000 (13'1")	4000 (13'1")	4000 (13'1")	4000 (13'1")
Arm		mm (ft.in)	2900 (9'6")	2900 (9'6")	2900 (9'6")	2900 (9'6")
Bucket		m ³ (cu.yd)	2.6 (3.4)	2.6 (3.4)	2.6 (3.4)	2.6 (3.4)

Item	Model		•PC400LC-8 PC400LC-8R	•PC400LC-8*** PC400LC-8R***	PC400LC-7	PC400LC-7***
OPERATING WEIGHT*		kg (lb)	44840 (98,850)	45900 (101,190)	44300 (97,660)	45200 (99,650)
HORSEPOWER	SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	270 (362)/1900 257 (345)/1900	270 (362)/1900 257 (345)/1900	259 (347)/1850 246 (330)/1850	259 (347)/1850 246 (330)/1850
BUCKET CAPACITY RANGE		m ³ (cu.yd)	2.6 (3.4)	2.6 (3.4)	2.6 (3.4)	2.6 (3.4)
PERFORMANCE:						
Swing speed		RPM	9.1	9.1	9.0	9.0
Max.travel speed	Hi Mi Lo	km/h (MPH)	5.5 (3.4) 4.0 (2.5) 3.0 (1.9)	5.5 (3.4) 4.0 (2.5) 3.0 (1.9)	5.5 (3.4) 4.4 (2.7) 3.0 (1.9)	5.5 (3.4) 4.4 (2.7) 3.0 (1.9)
DIMENSIONS:		See the page of DIMENSIONS				
ENGINE:			KOMATSU	KOMATSU	KOMATSU	KOMATSU
Model			SAA6D125E-5	SAA6D125E-5	SAA6D125E-3	SAA6D125E-3
No. of cylinders-		mm	6-125 × 150	6-125 × 150	6-125 × 150	6-125 × 150
bore × stroke		(in)	(4.92 × 5.91)	(4.92 × 5.91)	(4.92 × 5.91)	(4.92 × 5.91)
Piston displacement		ltr. (cu.in)	11.04 (673)	11.04 (673)	11.04 (673)	11.04 (673)
HYDRAULIC SYSTEM:			2 × Variable	2 × Variable	2 × Variable	2 × Variable
Hydraulic pump			Piston	Piston	Piston	Piston
Max. oil flow		ltr. (U.S. Gal)/min.	690 (182)	690 (182)	690 (182)	690 (182)
Max. oil pressure (Implement)		kg/cm ² (PSI)	355 (5050)	355 (5050)	355 (5050)	355 (5050)
TRACK SHOES:						
Width/ground pressure		mm (in)/ kg/cm ² (PSI)	700 (28)/ 0.68 (9.7)	700 (28)/ 0.70 (10.0)	700 (28)/ 0.68 (9.7)	600 (24)/ 0.69 (9.8)
CAPACITY (Refilled):						
Fuel tank		ltr. (U.S. Gal)	650 (1727)	650 (1727)	650 (172)	650 (172)
Hydraulic oil tank			248 (65.5)	248 (65.5)	248 (65.5)	248 (65.5)
MACHINE SPEC:						
Boom		mm (ft.in)	4000 (13'1")	4000 (13'1")	4000 (13'1")	4000 (13'1")
Arm		mm (ft.in)	2900 (9'6")	2900 (9'6")	2900 (9'6")	2900 (9'6")
Bucket		m ³ (cu.yd)	2.6 (3.4)	2.6 (3.4)	2.6 (3.4)	2.6 (3.4)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80kg (180lb) and, indicated implement and shoes.

*** Variable gauge

- Tier 3 and Stage 3A model

Specifications

HYDRAULIC LOADING SHOVELS

Item	Model		*PC600-8 PC600-8R	PC600-7	*PC600LC-8 PC600LC-8R	PC600LC-7
OPERATING WEIGHT*		kg (lb)	61300 (135,120)	61100 (134,700)	62300 (137,350)	62200 (137,130)
HORSEPOWER	SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	323 (433)/1800 320 (429)/1800 288 (368)/1800	287 (385)/1800	323 (433)/1800 320 (429)/1800 288 (368)/1800	287 (385)/1800
BUCKET CAPACITY RANGE		m ³ (cu.yd)	4.0 (5.2)	4.0 (5.2)	4.0 (5.2)	4.0 (5.2)
PERFORMANCE:						
Swing speed		RPM	8.3	8.3	8.3	8.3
Max.travel speed	Hi Mi Lo	km/h (MPH)	4.9 (3.0)	4.9 (3.0)	4.9 (3.0)	4.9 (3.0)
			3.0 (1.9)	3.0 (1.9)	3.0 (1.9)	3.0 (1.9)
DIMENSIONS:	See the page of DIMENSIONS					
ENGINE:						
Model			KOMATSU SAA6D140E-5	KOMATSU SA6D140E-3	KOMATSU SAA6D140E-5	KOMATSU SA6D140E-3
No. of cylinders- bore × stroke	mm (in)		6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)
Piston displacement	ltr. (cu.in)		15.24 (930)	15.24 (930)	15.24 (930)	15.24 (930)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow	ltr. (U.S. Gal)/min.		820 (217)	820 (217)	820 (217)	820 (217)
Max. oil pressure (Implement)	kg/cm ² (PSI)		300 (4270)	300 (4290)	300 (4270)	300 (4270)
TRACK SHOES:						
Width/ground pressure	mm (in)/ kg/cm ² (PSI)		600 (24)/ 1.11 (15.8)	600 (24)/ 1.11 (15.8)	600 (24)/ 1.04 (14.8)	600 (24)/ 1.05 (14.9)
CAPACITY (Refilled):						
Fuel tank	ltr. (U.S. Gal)		880 (232.5)	880 (232)	880 (232.5)	880 (232)
Hydraulic oil tank			360 (95.0)	360 (95.0)	360 (95.0)	360 (95.0)
MACHINE SPEC:						
Boom	mm (ft.in)		4000 (13'1")	4000 (13'1")	4000 (13'1")	4000 (13'1")
Arm	mm (ft.in)		3000 (9'10")	3000 (9'10")	3000 (9'10")	3000 (9'10")
Bucket	m ³ (cu.yd)		4.0 (5.2)	4.0 (5.2)	4.0 (5.2)	4.0 (5.2)

Item	Model		PC750-7	*PC800-8 PC800-8R	*PC1250-8 PC1250-8R	PC1250-7
OPERATING WEIGHT*		kg (lb)	76000 (167,550)	77000 (169,750)	110900 (244,490)	110000 (242,510)
HORSEPOWER	SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	338 (454)/1800	370 (496)/1800 363 (487)/1800 338 (454)/1800	514 (688)/1800 502 (672)/1800 463 (620)/1800	485 (651)/1800
BUCKET CAPACITY RANGE		m ³ (cu.yd)	4.5, 5.1 (5.9) (6.7)	4.5, 5.1 (5.9) (6.7)	6.5 (8.5)	6.5 (8.5)
PERFORMANCE:						
Swing speed		RPM	6.8	6.8	6.8	5.5
Max.travel speed	Hi Mi Lo	km/h (MPH)	4.2 (2.6)	4.2 (2.6)	4.2 (2.6)	3.2 (2.0)
			2.8 (1.7)	2.8 (1.7)	2.8 (1.7)	2.1 (1.3)
DIMENSIONS:	See the page of DIMENSIONS					
ENGINE:						
Model			KOMATSU SAA6D140E-3	KOMATSU SAA6D140E-5	KOMATSU SAA6D170E-5	KOMATSU SAA6D170E-3
No. of cylinders- bore × stroke	mm (in)		6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-170 × 170 (6.69 × 6.69)	6-170 × 170 (6.69 × 6.69)
Piston displacement	ltr. (cu.in)		15.24 (930)	15.24 (930)	23.15 (1413)	23.15 (1413)
HYDRAULIC SYSTEM:						
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	3 × Variable Piston	3 × Variable Piston
Max. oil flow	ltr. (U.S. Gal)/min.		988 (261)	988 (261)	1588 (420)	1588 (420)
Max. oil pressure (Implement)	kg/cm ² (PSI)		320 (4550)	320 (4550)	320 (4550)	320 (4550)
TRACK SHOES:						
Width/ground pressure	mm (in)/ kg/cm ² (PSI)		610 (24)/ 1.26 (17.9)	610 (24)/ 1.27 (18.1)	610 (24)/ 1.45 (20.6)	700 (28)/ 1.44 (20.1)
CAPACITY (Refilled):						
Fuel tank	ltr. (U.S. Gal)		880 (232)	980 (259)	1360 (359)	1360 (359)
Hydraulic oil tank			440 (116)	440 (116.2)	670 (177)	670 (177)
MACHINE SPEC:						
Boom	mm (ft.in)		4600 (15'1")	4600 (15'1")	5300 (17'5")	5300 (17'5")
Arm	mm (ft.in)		3400 (11'2")	3400 (11'2")	3800 (12'6")	3800 (12'6")
Bucket	m ³ (cu.yd)		4.5 (5.9)	4.5 (5.9)	6.5 (8.5)	6.5 (8.5)

- * Operating weight includes coolant, lubricants, full fuel tank, operator 80kg (180lb) and, indicated implement and shoes.
- Tier 3 and Stage 3A model

Specifications

HYDRAULIC LOADING SHOVELS

Item	Model	PC2000-8	PC3000-6 Diesel Tier1	PC3000-6 Electric Drive	PC4000-6 Diesel Tier1
OPERATING WEIGHT*	kg (lb)	195000 (429,900)	252000 (555,560)	251000 (553,200)	391000 (862,000)
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	728 (976)/1800 713 (956)/1800 679 (910)/1800	940 (1260)/1800 895 (1200)/1800	900 (1206)	1400 (1875)/1800 1324 (1775)/1800
BUCKET CAPACITY RANGE	m ³ (cu.yd)	11 (14.4)	10 ~ 20 (13.1) (26.2)	10 ~ 20 (13.1) (26.2)	16 ~ 28 (20.9) (36.6)
PERFORMANCE: Swing speed Max.travel speed	RPM km/h (MPH) Hi Mi Lo	4.8 2.7 (1.7)	4.6 2.4 (1.5)	4.6 2.4 (1.5)	4.0 2.1 (1.3)
DIMENSIONS: See the page of DIMENSIONS					
ENGINE (Electric Motor): Model No. of cylinders- bore × stroke Piston displacement	mm (in) ltr. (cu.in)	KOMATSU SAA12V140E-3 12-140 × 165 (5.51 × 6.50) 30.48 (1860)	KOMATSU SSA12V159 12-159 × 159 (6.26 × 6.26) 37.5 (2288)	Siemens (6.6 kV) 1LA452	KOMATSU SDA16V160 16-159 × 190 (6.26 × 6.26) 60.2 (1842)
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Max. oil pressure (Implement)	ltr. (U.S. Gal)/min. kg/cm ² (PSI)	2 × Variable Piston 2317 (612) 300 (4270)	3 × Variable Piston 2730 (721) 316 (4495)	3 × Variable Piston 2730 (721) 316 (4495)	4 × Variable Piston 4140 (1094) 316 (4495)
TRACK SHOES: Width/ground pressure	mm (in)/ kg/cm ² (PSI)	810 (32)/ 1.90 (27.0)	800 (31.5)/ 2.36 (33.6)	800 (31.5)/ 2.35 (33.5)	1200 (47)/ 2.19 (31.1)
CAPACITY (Refilled): Fuel tank Hydraulic oil tank	ltr. (U.S. Gal)	3400 (898) 1300 (344)	4500 (1190) 2900 (765)	4500 (1190) 2900 (765)	6400 (1691) 3900 (1030)
MACHINE SPEC: Boom Arm Bucket	mm (ft.in) mm (ft.in) m ³ (cu.yd)	5950 (19'6") 4450 (14'7") 11 (14.4)	6000 (19'8") 4300 (14'1") 15.0 (19.6)	— 4300 (14'1") 15.0 (19.6)	7150 (23'6") 4900 (16'1") 22.0 (28.8)

Item	Model	PC4000-6 Electric Drive	PC5500-6 Diesel Tier1	PC5500-6 Diesel Tier2	PC5500-6 Electric Drive
OPERATING WEIGHT*	kg (lb)	383000 (844,140)	534000 (1,177,000)	534000 (1,177,000)	529000 (1,166,000)
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	1350 (1836)	1880 (2520)/1800 1825 (2446)/1800	1880 (2520)/1800 1825 (2446)/1808	1800 (2412)
BUCKET CAPACITY RANGE	m ³ (cu.yd)	16 ~ 28 (20.9) (36.6)	20 ~ 36 (26.2) (47.1)	20 ~ 36 (26.2) (47.1)	20 ~ 36 (26.2) (47.1)
PERFORMANCE: Swing speed Max.travel speed	RPM km/h (MPH) Hi Mi Lo	4.0 2.1 (1.3)	3.1 2.1 (1.3)	3.1 2.1 (1.3)	3.1 2.1 (1.3)
DIMENSIONS: See the page of DIMENSIONS					
ENGINE (Electric Motor): Model No. of cylinders- bore × stroke Piston displacement	mm (in) ltr. (cu.in)	ABB (6.6 kV) AMA500L4A	KOMATSU SSA12V159 × 2 12-159 × 159 (6.26 × 6.26) 37.5 (2288) × 2	KOMATSU SDA12V159E × 2 12-159 × 159 (6.26 × 6.26) 37.5 (2288) × 2	ABB (6.6 kV) × 2 AMA450L4A
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Max. oil pressure (Implement)	ltr. (U.S. Gal)/min. kg/cm ² (PSI)	4 × Variable Piston 4140 (1094) 316 (4495)	6 × Variable Piston 4200 (1110) 316 (4495)	6 × Variable Piston 4200 (1110) 316 (4495)	6 × Variable Piston 4200 (1110) 316 (4495)
TRACK SHOES: Width/ground pressure	mm (in)/ kg/cm ² (PSI)	1200 (47)/ 2.14 (30.5)	1350 (53)/ 2.4 (34.1)	1350 (53)/ 2.4 (34.1)	1350 (53)/ 2.38 (33.9)
CAPACITY (Refilled): Fuel tank Hydraulic oil tank	ltr. (U.S. Gal)	— 3900 (1030)	10800 (2853) 3800 (1004)	10800 (2853) 3800 (1004)	— 3800 (1004)
MACHINE SPEC: Boom Arm Bucket	mm (ft.in) mm (ft.in) m ³ (cu.yd)	7150 (23'6") 4900 (16'1") 22.0 (28.8)	7600 (24'11") 5600 (18'4") 29.0 (37.9)	7600 (24'11") 5600 (18'4") 29.0 (37.9)	7600 (24'11") 5600 (18'4") 29.0 (37.9)

* Operating weight includes coolant, lubricants, full fuel tank, operator 80 kg (180 lb) and, indicated implement and shoes.

Specifications

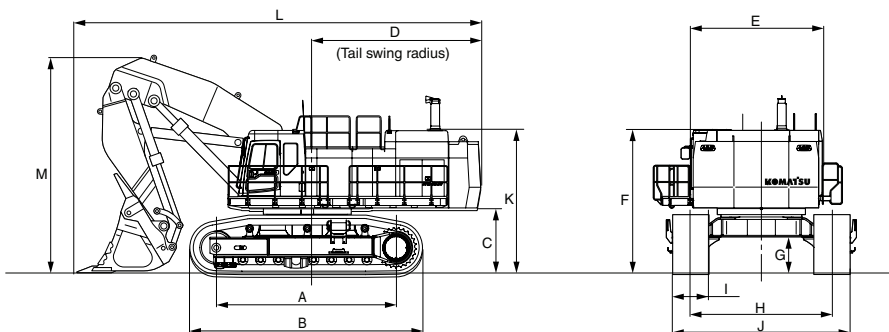
HYDRAULIC LOADING SHOVELS

Item	Model	PC8000-6 Diesel Tier1	PC8000-6 Electric drive		
OPERATING WEIGHT*	kg (lb)	737000 (1,624,350)	725000 (1,598,000)		
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	3000 (4021)/1800 2882 (3863)/1800	2900 (3886)		
BUCKET CAPACITY RANGE	m ³ (cu.yd)	28 ~ 50 (36.6) (65.4)	28 ~ 50 (36.6) (65.4)		
PERFORMANCE: Swing speed Max.travel speed	Hi Mi Lo RPM km/h (MPH)	2.7 2.4 (1.5)	2.7 2.4 (1.5)		
DIMENSIONS:	See the page of DIMENSIONS				
ENGINE (Electric Motor): Model No. of cylinders- bore × stroke Piston displacement	mm (in) ltr. (cu.in)	KOMATSU SDA16V160 × 2 16-159 × 190 (6.26 × 7.48) 60.2 (3673) × 2	ABB (6.6 kV) AMA500L4A		
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Max. oil pressure (Implement)	ltr. (U.S. Gal)/min. kg/cm ² (PSI)	8 × Variable Piston 8280 (2188) 316 (4495)	8 × Variable Piston 8280 (2188) 316 (4495)		
TRACK SHOES: Width/ground pressure	mm (in)/ kg/cm ² (PSI)	1500 (59)/ 2.72 (38.7)	1500 (59)/ 2.68 (38.1)		
CAPACITY (Refilled): Fuel tank Hydraulic oil tank	ltr. (U.S. Gal)	13500 (3567) 8350 (2205)	— 8350 (2205)		
MACHINE SPEC: Boom Arm Bucket	mm (ft.in) mm (ft.in) m ³ (cu.yd)	8150 (26'9") 5750 (18'10") 42.0 (55)	8150 (26'9") 5750 (18'10") 42.0 (55)		

* Operating weight includes coolant, lubricants, full fuel tank, operator 80 kg (180 lb) and, indicated implement and shoes.

Dimensions

HYDRAULIC LOADING SHOVELS



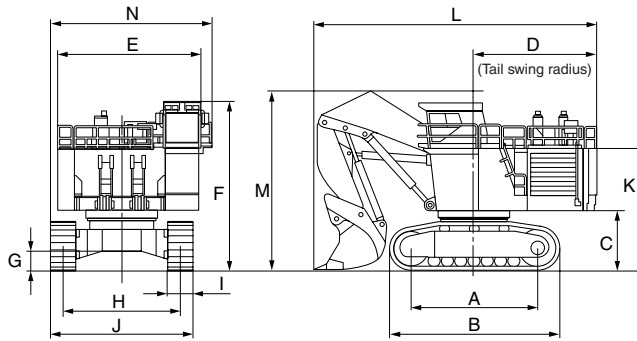
FVBH0104

	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (ft.in)	J mm (ft.in)	K mm (ft.in)	L mm (ft.in)	M mm (ft.in)	
PC400-8	4020 (13'2")	5055 (16'7")	1320 (4'4")	3645 (12'0")	3090 (10'2")	3285 (10'9")	555 (1'10")	2740 (9')	600 (24")	3340 (11')	2920 (9'7")	8455 (27'9")	4400 (14'5")	
PC400-8R														
PC400-8***							685 (2'3")	2890 (9'6")		3490 (11'5")				
PC400-8R***										2990** (9'10")				
PC400LC-8	4350 (14'3")	5385 (17'8")	1320 (4'4")	3645 (12'0")	3090 (10'2")	3285 (10'9")	550 (1'10")	2740 (9')	700 (28")	3440 (11'3")	2920 (9'7")	8455 (27'9")	4400 (14'5")	
PC400LC-8***														
							685 (2'3")	2890 (9'6")		3590 (11'9")				3090** (10'2")
PC400-7	4020 (13'2")	5055 (16'7")	1320 (4'4")	3645 (12'0")	2995 (9'10")	3265 (10'9")	555 (1'10")	2740 (9')	600 (24")	3340 (11')	2715 (8'11")	8455 (27'9")	4400 (14'5")	
PC400-7***														
							685 (2'3")	2890 (9'6")		3490 (11'5")				2990** (9'10")
PC400LC-7	4350 (14'3")	5385 (17'8")	1320 (4'4")	3645 (12'0")	2995 (9'10")	3265 (10'9")	550 (1'10")	2740 (9')	700 (28")	3440 (11'3")	2715 (8'11")	8455 (27'9")	4400 (14'5")	
PC400LC-7***														
							685 (2'3")	2890 (9'6")		3590 (11'9")				3090** (10'2")
PC600-7	4250 (13'11")	5370 (17'7")	1370 (4'6")	3675 (12'1")	3195 (10'6")	3295 (10'10")	790 (2'7")	3300 (10'10")	600 (24")	3900 (12'10")	3075 (10'1")	8815 (28'11")	5540 (18'2")	
PC600LC-7	4600 (15'1")	5690 (18'8")												
PC600-8 PC600-8R	4250 (13'11")	5360 (17'7")												
PC600LC-8 PC600LC-8R	4600 (15'1")	5710 (18'9")	1365 (4'6")	3775 (12'5")		3280 (10'9")	780 (2'7")			3900 (12'10")		8915 (29'3")	5530 (18'2")	
PC750-7	4500 (14'9")	5810 (19'1")	1560 (5'1")	4245 (13'11")	3195 (10'6")	3560 (11'8")	840 (2'9")	3500 (11'6")	610 (24")	4110 (13'6")	3445 (11'4")	9865 (32'4")	5640 (18'6")	
							2780** (9'1")	4110 (13'6")		3390** (11'1")				
PC800-8 PC800-8R	4500 (14'9")	5810 (19'1")	1560 (5'1")	4400 (14'5")	3195 (10'6")	3560 (11'8")	840 (2'9")	3500 (11'6")	610 (24")	4110 (13'6")	3670 (12')	10075 (33'1")	5790 (19'0")	
										3390** (11'1")				
PC1250-7	4995 (16'5")	6425 (21'1")	1790 (5'10")	4810 (15'9")	3470 (11'5")	4120 (13'6")	990 (3'3")	3900 (12'10")	700 (28")	4600 (15'1")	3925 (12'11")	10940 (35'11")	6200 (20'4")	
PC1250-8 PC1250-8R	4995 (16'5")	6425 (21'1")	1790 (5'10")	4870 (16'0")	3470 (11'5")	4120 (13'6")	990 (3'3")	3900 (12'10")	700 (28")	4600 (15'1")	4075 (13'4")	10940 (35'11")	6200 (20'4")	
PC2000-8	5780 (19')	7445 (24'5")	2095 (6'10")	5980 (19'7")	7490 (24'7")	7030 (23'1")	825 (2'8")	4600 (15'1")	810 (32")	5410 (17'9")	5970 (19'7")	13075 (42'11")	8180 (26'10")	

** When retracted
*** Variable gauge

Dimensions

HYDRAULIC LOADING SHOVELS

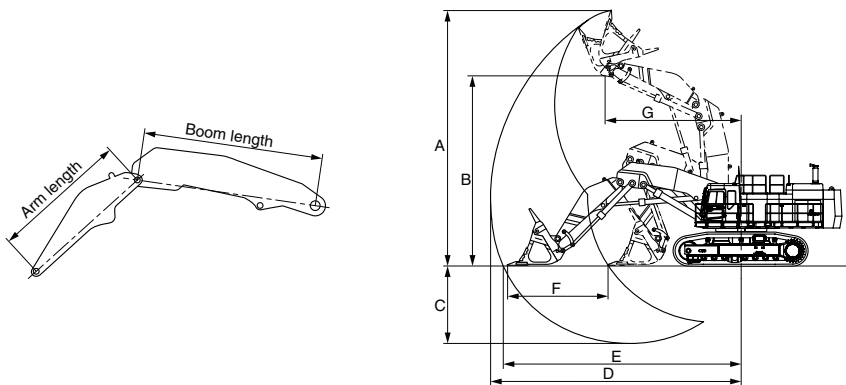


FVBH0108

	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (ft.in)	J mm (ft.in)	K mm (ft.in)	L mm (ft.in)	M mm (ft.in)	N mm (ft.in)
PC3000-6	6000 (19'8")	7910 (25'11")	2670 (8'9")	6480 (21'3")	6070 (19'11")	7485 (24'7")	920 (3')	4800 (15'9")	800 (31'5")	5600 (18'4")	5280 (17'4")	13650 (44'9")	7810 (25'7")	6800 (22'4")
PC4000-6	6700 (22'0")	8842 (29'0")	3017 (9'11")	6500 (21'4")	7071 (23'2")	8300 (27'3")	930 (3'1")	5550 (18'3")	1200 (47")	6750 (22'2")	6102 (20'0")	14210 (46'7")	8960 (29'5")	7975 (26'2")
PC5500-6	7424 (24'4")	9720 (31'11")	3310 (10'10")	7550 (24'9")	7270 (23'10")	8610 (28'3")	995 (3'3")	6190 (20'4")	1350 (53")	7540 (24'9")	6410 (21'0")	16650 (54'8")	10200 (33'6")	7900 (25'11")
PC8000-6	8100 (26'7")	10735 (35'3")	3555 (11'8")	8710 (28'7")	8300 (27'3")	9585 (31'5")	1144 (3'9")	6850 (22'6")	1500 (59")	8350 (27'5")	7115 (23'4")	18550 (60'10")	10700 (35'1")	10100 (33'2")

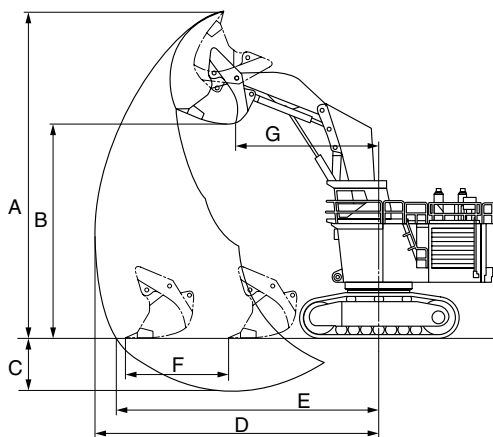
Working Ranges and Digging Force

HYDRAULIC LOADING SHOVELS



FVBH0105

	Boom length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Breakout force kg (lb/kN)	Arm crowd force kg (lb/kN)
PC400-7 PC400-8 PC400-8R PC400LC-7 PC400LC-8 PC400LC-8R	4.0 (13'1")	2.9 (9'6")	10190 (33'5")	7190 (23'7")	3045 (10')	8660 (28'5")	8375 (27'6")	3430 (11'3")	3805 (12'6")	27500 (60,630/270)	29100 (64,150/285)
PC600-7 PC600LC-7 PC600-8 PC600-8R PC600LC-8 PC600LC-8R	4.0 (13'1")	3.0 (9'10")	10090 (33'1")	6705 (22'0")	3495 (11'6")	9190 (30'2")	8850 (29'0")	3275 (10'9")	4460 (14'8")	39400 (86,860/386)	34500 (76,060/338)
PC750-7 PC800-8 PC800-8R	4.60 (15'1")	3.40 (11'2")	10800 (35'5")	7260 (23'10")	3605 (11'10")	10370 (34'0")	9990 (32'9")	3865 (12'8")	5870 (19'3")	48600 (107,140/477)	41200 (90,830/404)
PC1250-7 PC1250-8 PC1250-8R	5.3 (17'5")	3.8 (12'6")	12330 (40'5")	8700 (28'7")	3650 (12'0")	11400 (37'5")	10900 (35'9")	4480 (14'8")	6760 (22'2")	59000 (130,070/579)	62000 (136,690/608)
PC2000-8	5.95 (19'6")	4.45 (14'7")	14450 (47'5")	9665 (31'9")	3190 (10'6")	13170 (43'3")	11940 (39'2")	4850 (15'11")	7500 (24'7")	73500 (162,070/721)	77000 (169,800/755)

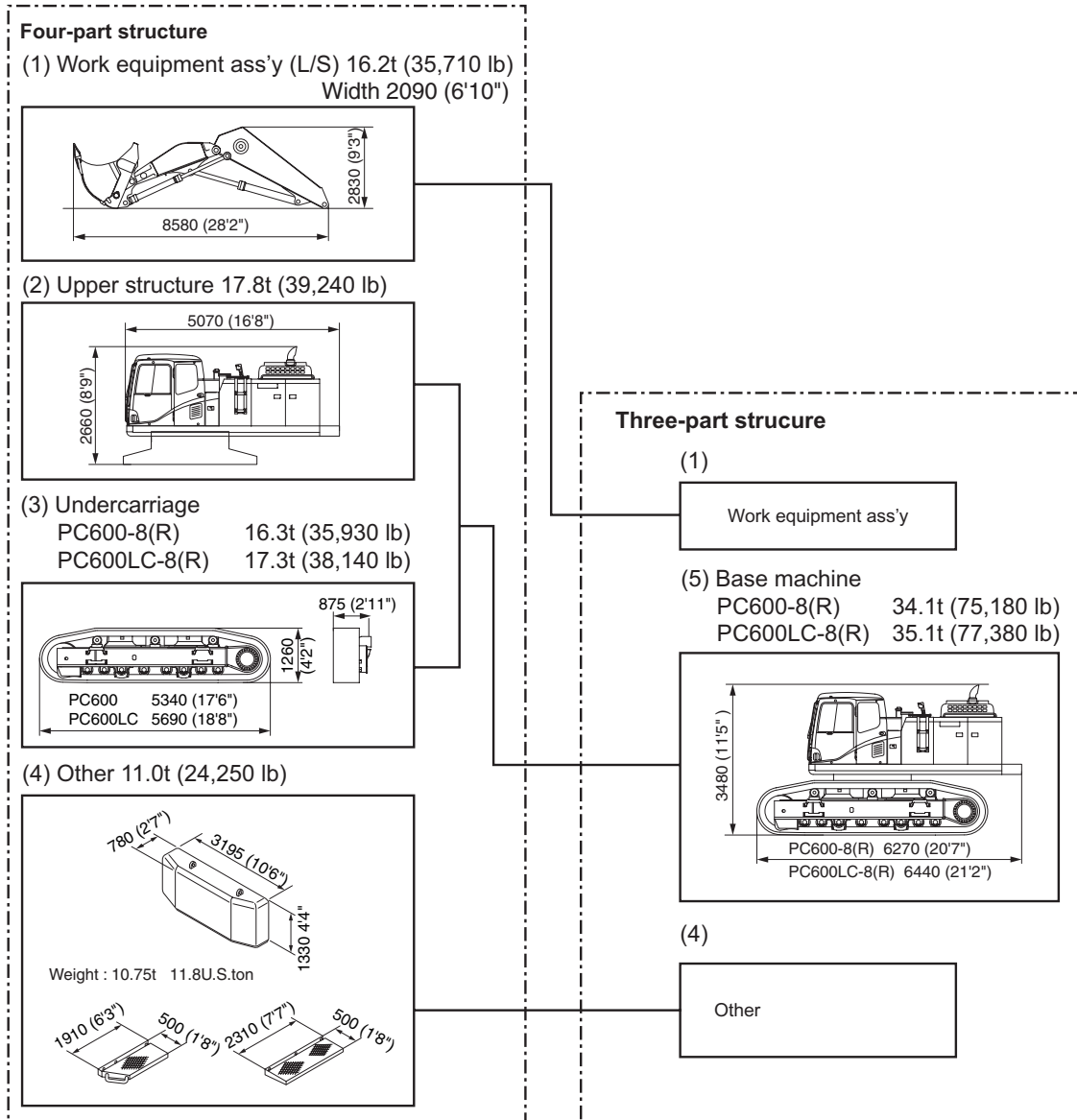


FVBH0109

	Boom length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Breakout force* ton (US ton/kN)	Arm crowd force* ton (US ton/kN)
PC3000-6	6.0 (19'8")	4.3 (14'1")	15150 (49'8")	10200 (33'6")	3250 (10'8")	13440 (44'1")	12680 (41'7")	4700 (15'5")	7460 (24'6")	102 (112.4/1000)	112 (123.5/1100)
PC4000-6	7.15 (23'6")	4.9 (16'1")	17370 (57'0")	12000 (39'4")	2800 (9'2")	15100 (49'7")	13920 (45'8")	5600 (18'4")	9000 (29'6")	127.4 (140.4/1250)	135.6 (149.5/1330)
PC5500-6	7.6 (24'11")	5.6 (18'4")	19590 (64'3")	13460 (44'2")	2790 (9'2")	16560 (54'2")	15000 (49'3")	5600 (18'4")	9210 (30'3")	190.1 (209.5/1865)	190.6 (210/1870)
PC8000-6	8.15 (26'9")	5.75 (18'10")	20685 (67'10")	13975 (45'10")	3115 (10'3")	17760 (58'3")	16370 (53'9")	5900 (19'4")	9960 (32'8")	236.5 (260.7/2320)	236.5 (260.7/2320)

* DIN rating

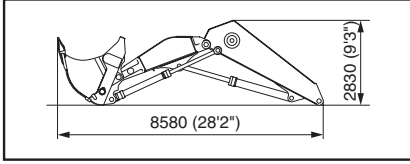
PC600-8/PC600LC-8, PC600-8R/PC600LC-8R



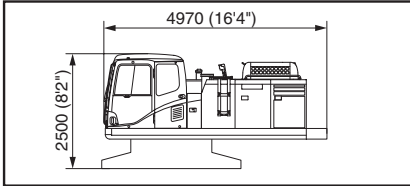
PC600-7/PC600LC-7

Four-part structure

- (1) Work equipment ass'y (L/S) 16.2t (35,710 lb)
Width 2090 (6'10")

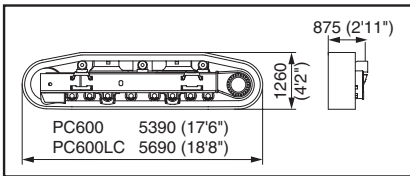


- (2) Upper structure 16.8t (37,040 lb)

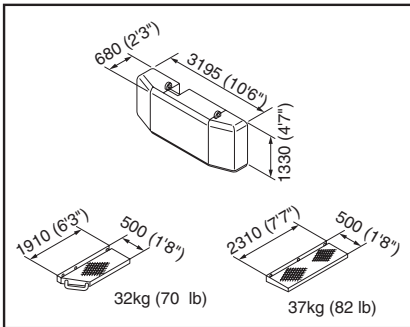


- (3) Undercarriage

- PC600-7 16.4t (36,160 lb)
PC600LC-7 17.4t (38,360 lb)



- (4) Other 10.75t (23,700 lb)



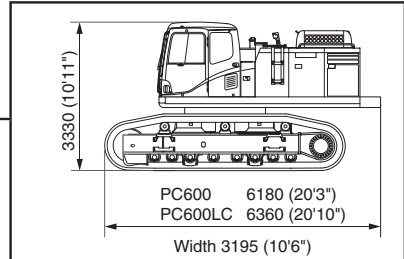
Three-part structure

- (1)

Work equipment ass'y

- (5) Base machine

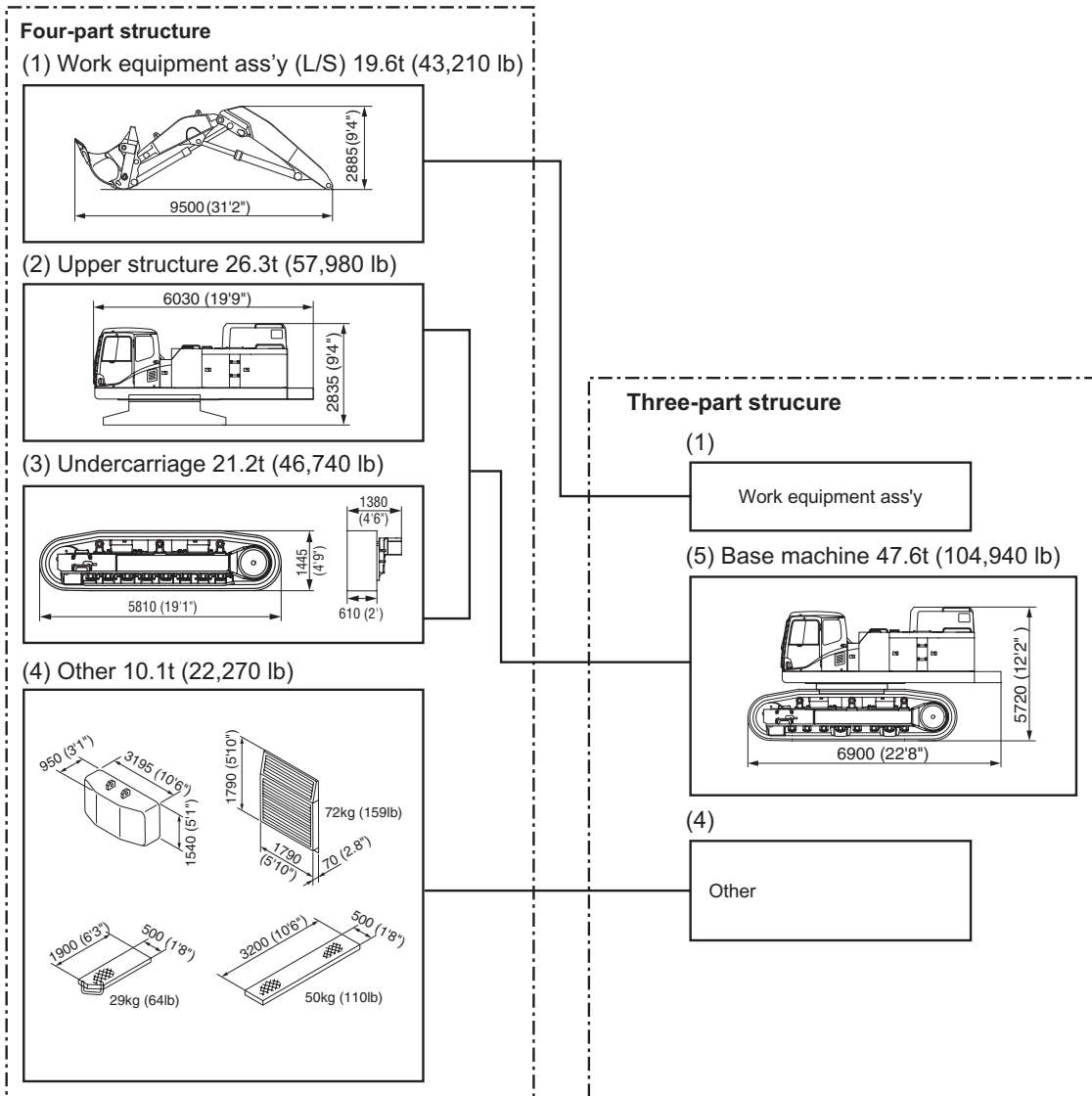
- PC600-7 33.9t (74,740 lb)
PC600LC-7 35.0t (77,160 lb)



- (4)

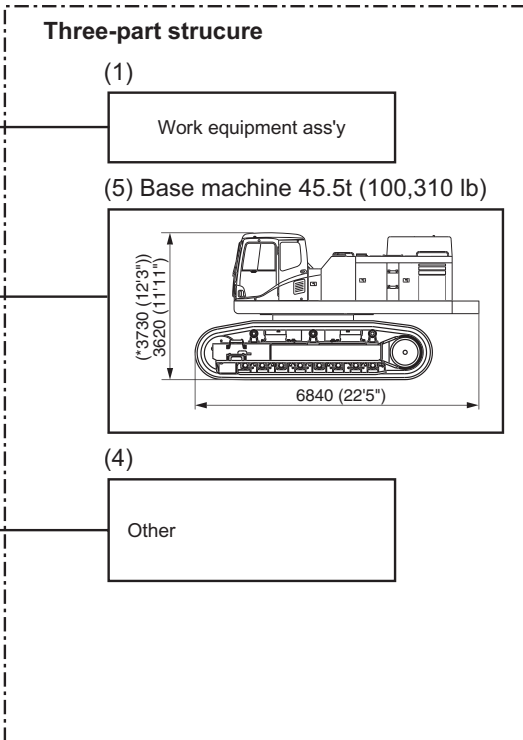
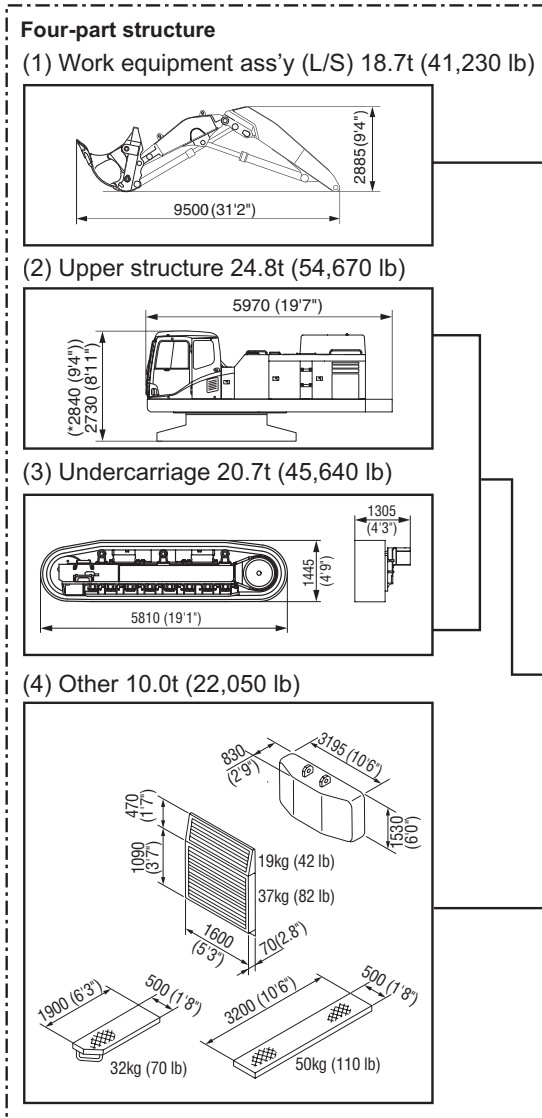
Other

PC800-8, PC800-8R



* KOMTRAX (optional) with an antenna when mounted.

PC750-7



* KOMTRAX (optional) with an antenna when mounted.

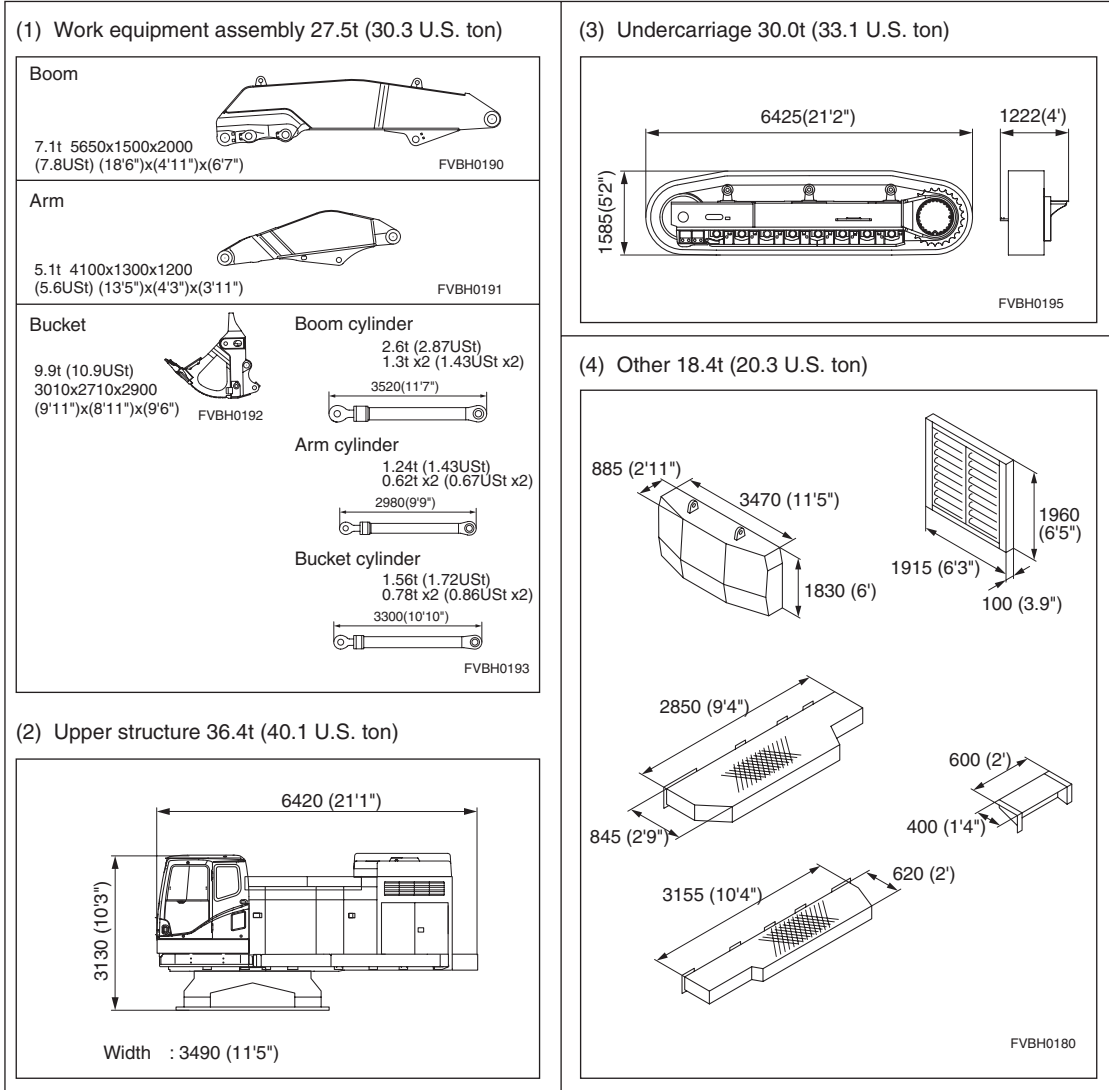
Component Dimensions and Weights

HYDRAULIC LOADING SHOVELS

PC1250-8, PC1250-8R

Posture for Transportation
(length X height X width) (1/2)

4 units for transportation (PC1250-8 STD spec.)



Component Dimensions and Weights

HYDRAULIC LOADING SHOVELS

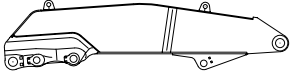
PC1250-7

Posture for Transportation
(length X height X width) (1/2)

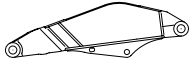
4 units for transportation (PC1250-7 STD spec.)

(1) Work equipment assembly 27.5t (30.3 U.S. ton)


Boom
7.1t 5650x1500x2000
(7.8USt) (18'6")x(4'11")x(6'7")
FVBH0190



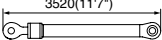
Arm
5.1t 4100x1300x1200
(5.6USt) (13'5")x(4'3")x(3'11")
FVBH0191



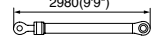
Bucket
9.9t (10.9USt)
3010x2710x2900
(9'11")x(8'11")x(9'6")
FVBH0192



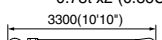
Boom cylinder
2.6t (2.87USt)
1.3t x2 (1.43USt x2)
3520(11'7")



Arm cylinder
1.24t (1.43USt)
0.62t x2 (0.67USt x2)
2980(9'9")

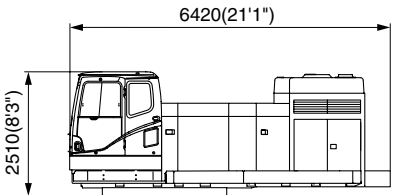


Bucket cylinder
1.56t (1.72USt)
0.78t x2 (0.86USt x2)
3300(10'10")



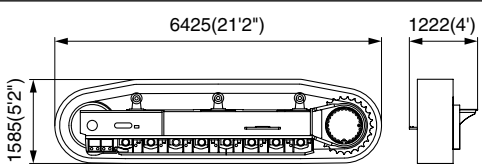
FVBH0193

(2) Upper structure 23.9t (26.3 U.S. ton)



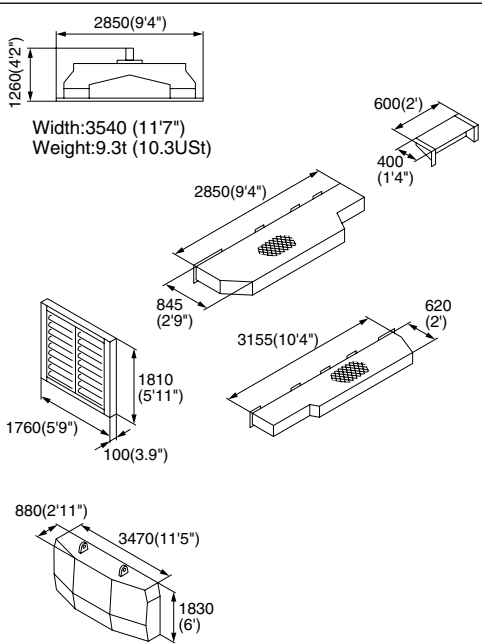
Width: 3490 (11'9")
Weight: 23.9t (26.3USt)
FVBH0178

(3) Undercarriage 30.0t (33.1 U.S. ton)



Weight
PC1250:30.0t (33.1USt)
15.0t x2(16.5 x2USt)
FVBH0195

(4) Other 27.7t (30.5 U.S. ton)




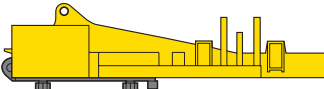
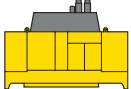
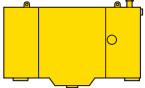
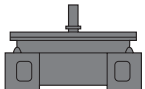
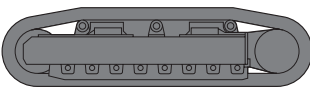






Width: 3540 (11'7")
Weight: 9.3t (10.3USt)
18.0t(19.8USt)
FVBH0180

Component Dimensions and Weights

HYDRAULIC LOADING SHOVELS

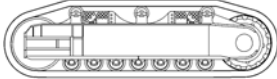
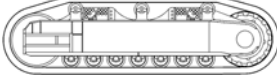
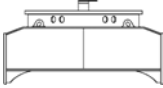
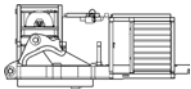



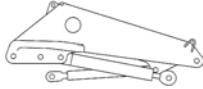
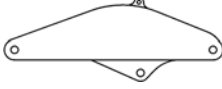

PC2000-8

Unit name	Dimension	Length mm (ft.in.)	Width mm (ft.in.)	Height mm (ft.in.)	Weight ton (U.S. ton)
1. Boom	 FVBH0205	6400 (21'0")	1740 (5'9")	2000 (6'7")	11.8 (13.0)
2. Arm	 FVBH0206	4900 (16'1")	1450 (4'9")	1700 (5'7")	9.5 (10.5)
3. Bucket		3350 (11'0")	3190 (10'6")	2920 (9'7")	14.4 (15.9)
4. Revolving frame		7575 (24'10")	3180 (10'5")	2640 (8'8")	26.5 (29.2)
5. Power module		2515 (17'1")	2455 (8'1")	3195 (10'6")	16.1 (17.7)
6. Fuel tank		3100 (10'2")	875 (2'10")	2070 (6'10")	2.4 (2.65)
7. Center frame		3815 (12'6")	3190 (10'6")	2210 (7'3")	18.0 (19.8)
8. Undercarriage		7435 (24'5")	1720 (5'8")	1920 (6'4")	26.0 × 2 (28.1 × 2)
9. Cab base		3660 (12'0")	2505 (8'3")	2700 (8'10")	2.5 (2.8)
10. Operator cab		2885 (9'6")	1880 (6'2")	2520 (8'3")	1.8 (1.98)
11. Counterweight		6420 (21'1")	1115 (3'8")	1505 (4'11")	24.5 (27.0)
12. Hydraulic tank		1860 (6'1")	1115 (3'8")	2125 (7'0")	3.5 (3.86)
13. Cylinders and Others					12.5 (13.8)

Component Dimensions and Weights

HYDRAULIC LOADING SHOVELS


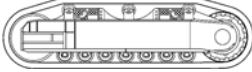
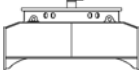
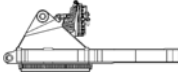

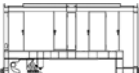



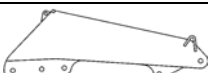



PC3000-6

Unit name	Dimension	Length mm (ft.in.)	Width mm (ft.in.)	Height mm (ft.in.)	Weight ton (U.S. ton)
Left Crawler Side Frame with 800 mm (31.5") Tracks		7930 (26'0")	1600 (5'3")	2210 (7'3")	31.9 (35.2)
Right Crawler Side Frame with 800 mm (31.5") Tracks		7930 (26'0")	1600 (5'3")	2210 (7'3")	31.9 (35.2)
Carbody with Rotary Joint		4020 (13'2")	3610 (11'10")	2180 (7'2")	19.5 (21.5)
Superstructure Platform with Machine House incl. 1 Diesel Engine, Hydraulic Tank and Hydraulic Cooler		7950 (26'1")	5250 (17'3")	3600 (11'10")	70 (77.2)
Counterweight		5060 (16'7")	2850 (9'4")	1000 (3'3")	30.5 (33.6)
Fuel Tank		2250 (7'5")	1650 (5'5")	2800 (9'2")	2.3 (2.5)
Cab Base		2520 (8'3")	2300 (7'7")	2800 (9'2")	3.25 (3.6)
Boom 6 m (19'8") with 4 cylinders		6450 (21'2")	2130 (7'0")	2800 (9'2")	26.3 (29.0)
Arm 4.3 m (14'1")		4740 (15'7")	1600 (5'3")	1800 (5'11")	9.25 (10.2)
Front Shovel Bucket 15 m ³ (19.0 cu.yd) incl. Standard Wear Package WP 3		4110 (13'6")	3420 (11'3")	3200 (10'6")	24.1 (26.6)
Case with Accessories		3500 (11'6")	2400 (7'10")	3150 (10'4")	4 (4.4)
Case with Accessories		5800 (19'0")	2400 (7'10")	2100 (6'11")	5.7 (6.3)
Case with Accessories		4900 (16'1")	1300 (4'3")	1520 (5'0")	7 (7.7)

Component Dimensions and Weights

HYDRAULIC LOADING SHOVELS

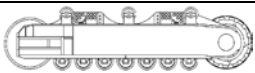
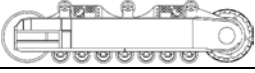


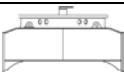
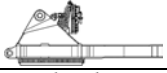





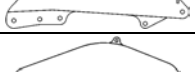
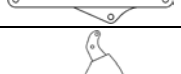

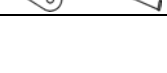
PC4000-6

Unit name	Dimension	Length mm (ft.in.)	Width mm (ft.in.)	Height mm (ft.in.)	Weight ton (U.S. ton)
Left Crawler Side Frame with 1200 mm (47") Tracks		8850 (29'0")	2700 (8'10")	2500 (8'2")	58.0 (63.9)
Right Crawler Side Frame with 1200 mm (47") Tracks		8850 (29'0")	2700 (8'10")	2500 (8'2")	58.0 (63.9)
Carbody with Rotary Joint		4670 (15'4")	4070 (13'4")	2270 (7'5")	30.1 (33.2)
Superstructure Platform		8430 (27'8")	4435 (14'7")	3930 (12'11")	50.3 (55.4)
Counterweight		6100 (20'0")	950 (3'1")	3320 (10'11")	37 (40.8)
Main Machinery House incl. 1 Engine		6500 (21'4")	2750 (9'0")	3250 (10'8")	30.4 (33.5)
Fuel Tank		2390 (7'10")	2060 (6'9")	3280 (10'9")	3.5 (3.9)
Hydraulic Tank		2400 (7'10")	1370 (4'6")	3270 (10'9")	3.4 (3.7)
Cab Base		2400 (7'10")	2060 (6'9")	3020 (9'11")	3.8 (4.2)
Boom 7,15 m (23'6")		7700 (25'3")	2300 (7'7")	2800 (9'2")	23.6 (26.0)
Arm 4,9 m (16'1")		5400 (17'9")	2000 (6'7")	2100 (6'11")	14.9 (16.4)
Front Shovel Clam 22 m ³ (28.8 cu.yd) incl. Standard Wear Package WP 3		3700 (12'2")	4170 (13'8")	3600 (11'10")	19.4 (21.4)
Front Shovel Backwall 22 m ³ (28.8 cu.yd) incl. Standard Wear Package WP 3		4100 (13'5")	4000 (13'1")	1600 (5'3")	15.5 (17.1)
Case with Oil Cooler		5770 (18'11")	2490 (8'2")	1980 (6'6")	3.4 (3.7)
Case with Driver's Cab and with intermediate base		3890 (12'9")	3290 (10'10")	3280 (10'9")	5 (5.5)
Case with Boom Cylinders		5870 (19'3")	1290 (4'3")	1480 (4'10")	8.2 (9.0)
Case with Stick Cylinders		4870 (16'0")	1090 (3'7")	1280 (4'2")	6.1 (6.7)
Case with Accessories		5770 (18'11")	2490 (8'2")	1980 (6'6")	4 (4.4)
Case with Accessories		4870 (16'0")	1090 (3'7")	1280 (4'2")	6 (6.6)

Component Dimensions and Weights

HYDRAULIC LOADING SHOVELS





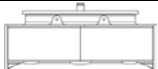
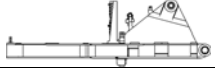

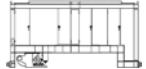




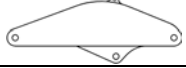

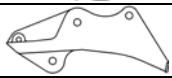
PC5500-6

Unit name	Dimension	Length mm (ft.in.)	Width mm (ft.in.)	Height mm (ft.in.)	Weight ton (U.S. ton)
Left Crawler Side Frame without Tracks		9300 (30'6")	1500 (4'11")	2300 (7'7")	40 (44)
Right Crawler Side Frame without Tracks		9300 (30'6")	1500 (4'11")	2300 (7'7")	40 (44)
6 × 1 Chain with 12 Track Shoes 1350 mm (53") each 8.55 t (9.4 US ton)		6000 (19'8")	1350 (4'5")	400 (1'4")	51.3 (56.5)
2 × 1 Chain with 10 Track Shoes 1350 mm (53") each 7.1 t (7.3 US ton)		5050 (16'7")	1350 (4'5")	400 (1'4")	14.2 (15.7)
Carbody with Rotary Joint		5130 (16'10")	4690 (15'5")	2380 (7'10")	45 (49.6)
Superstructure Platform		9650 (31'7")	4510 (14'10")	4400 (14'5")	74.7 (82.3)
Counterweight		6600 (21'8")	1140 (3'9")	3320 (10'11")	42 (46.3)
Main Machinery House incl. 2 Diesel Engines		7100 (23'4")	4050 (13'3")	3300 (10'10")	43 (47.4)
Fuel Tank		2800 (9'2")	2250 (7'5")	3300 (10'10")	4.5 (5.0)
Hydraulic Tank		2390 (7'10")	1300 (4'3")	3300 (10'10")	3.4 (3.7)
Cab Base		2200 (7'3")	1950 (6'5")	3050 (10'0")	3.8 (4.2)
Boom 7.6 m (24'11")		8250 (27'1")	2530 (8'4")	3000 (9'10")	35.0 (38.6)
Arm 5.6 m (18'4")		6240 (20'6")	2300 (7'7")	2340 (7'8")	20.2 (22.3)
Front Shovel Clam 28 m ³ (36.6 cu.yd), incl. Standard Wear Package WP 3		4000 (13'1")	4810 (15'9")	3800 (12'6")	27.5 (30.3)
Front Shovel Backwall 28 m ³ (36.6 cu.yd) incl. Standard Wear Package WP 3		4300 (14'1")	4400 (14'5")	1730 (5'8")	23.5 (25.9)
Case with Oil Cooler		4000 (13'1")	2700 (8'10")	2300 (7'7")	5.4 (6.0)
Case with Driver's Cab and with Intermediate Base		4000 (13'1")	3300 (10'10")	3200 (10'6")	6.6 (7.3)
Case with 2 Gear Boxes		5600 (18'4")	2700 (8'10")	2250 (7'5")	16.6 (18.3)
Case with 2 Boom Cylinders		6500 (21'4")	1400 (4'7")	1500 (4'11")	12 (13.2)
Case with 2 Stick Cylinders		5670 (18'7")	1490 (4'11")	1680 (5'6")	9.2 (10.1)
Case with Accessories		3600 (11'10")	2500 (8'2")	2550 (8'4")	3.8 (4.2)
Case with Accessories		5770 (18'11")	2490 (8'2")	1880 (6'2")	4.6 (5.1)

Component Dimensions and Weights

HYDRAULIC LOADING SHOVELS

PC8000-6

Unit name	Dimension	Length mm (ft.in.)	Width mm (ft.in.)	Height mm (ft.in.)	Weight ton (U.S. ton)
Left Crawler Side Frame without Tracks		10200 (33'6")	1520 (5'0")	2450 (8'0")	55 (60.6)
Right Crawler Side Frame without Tracks		10200 (33'6")	1520 (5'0")	2450 (8'0")	55 (60.6)
9 × 1 Chain with 10 Track Shoes 1500 mm (59")		5040 (16'6")	1500 (4'11")	400 (1'4")	91 (100.3)
1 Chain with 8 Track Shoes 1500 mm (59")		4070 (13'4")	1500 (4'11")	400 (1'4")	8.1 (8.9)
Carbody with Rotary Joint		5730 (18'10")	5060 (16'7")	2540 (8'4")	59 (65.0)
Superstructure Platform		11300 (37'1")	4750 (15'7")	4000 (13'1")	89 (98.1)
Counterweight		6750 (22'2")	1250 (4'1")	3850 (12'8")	52.3 (57.7)
Main Machinery House incl. 2 Diesel Engines		8000 (26'3")	5000 (16'5")	3900 (12'10")	59 (65.0)
Fuel Tank		3330 (10'11")	1800 (5'11")	3760 (12'4")	5.6 (6.2)
Hydraulic Tank		2710 (8'11")	1910 (6'3")	3730 (12'3")	7.2 (7.9)
Cab Base		2540 (8'4")	1930 (6'4")	3700 (12'2")	5.4 (6.0)
Boom 8.15 m (26'9")		8250 (17'3")	2900 (9'6")	3400 (11'2")	49.1 (54.1)
Arm 5.75 m (18'10")		6450 (21'2")	2600 (8'6")	2400 (7'10")	25.3 (27.9)
Front Shovel Clam 42 m ³ (55 cu.yd), incl. Standard Wear Package WP 3		4500 (14'9")	5670 (18'7")	4300 (14'1")	38.1 (42.0)
Front Shovel Backwall 42 m ³ (55 cu.yd), incl. Standard Wear Package WP 3		4720 (15'6")	5350 (17'7")	2010 (6'7")	30.4 (33.5)
Case with Oil Cooler		6500 (21'4")	2700 (8'10")	2500 (8'2")	11.5 (12.7)
Case with Slew Ring		4950 (16'3")	4910 (16'1")	1015 (3'4")	21 (23.1)
Case with Cab		4000 (13'1")	3030 (9'11")	3150 (10'4")	7 (7.7)
20' OT Container (belong to shipper) with Accessories					8.5 (9.4)
20' OT Container (belong to shipper) with Accessories					13.4 (14.8)
20' OT Container (belong to shipper) with Accessories					20.3 (22.4)
40' OT Container (belong to shipper) with Accessories					24.3 (26.8)

Ground Pressure

HYDRAULIC LOADING SHOVELS

	Shoe type	Shoe width mm (in)	Ground contact area cm ² (sq.in)	Ground pressure kg/ cm ² (PSI)	Change in operating weight kg (lb)	Boom Arm Bucket
PC400-7 PC400-8 PC400-8R	Triple-grouser	600 (24")*	52090 (8074)	0.83 (11.8)	±0	: 4.0 m (13'1")
		700 (28")	60770 (9419)	0.72 (10.2)	+420 (926)	: 2.9 m (9'6")
		800 (31.5")	69450 (10765)	0.63 (8.95)	+850 (1874)	: 2.6 m ³ (3.4 cu.yd)
PC400LC-7 PC400LC-8 PC400LC-8R	Triple-grouser	600 (24")	56050 (8638)	0.78 (11.1)	-450 (992)	: 4.0 m (13'1")
		700 (28")*	65390 (10135)	0.68 (9.7)	±0	: 2.9 m (9'6")
		800 (31.5")	74730 (11583)	0.60 (8.53)	+450 (992)	: 2.6 m ³ (3.4 cu.yd)
PC600-7	Triple-grouser	600 (24")*	55240 (8562)	1.11 (15.8)	±0	: 4.0 m (13'1")
		750 (29.5")	69090 (10709)	0.90 (12.8)	+820 (1808)	: 3.0 m (9'10")
						: 4.0 m ³ (5.2 cu.yd)
PC600LC-7	Triple-grouser	600 (24")*	59440 (9213)	1.05 (14.9)	±0	: 4.0 m (13'1")
		750 (29.5")	74300 (11517)	0.85 (12.1)	+880 (1940)	: 3.0 m (9'10")
						: 4.0 m ³ (5.2 cu.yd)
PC600-8 PC600-8R	Double-grouser	600 (24")*	55240 (8562)	1.11 (15.8)	±0	: 4.0 m (13'1")
						: 3.0 m (9'10")
						: 4.0 m ³ (5.2 cu.yd)
PC600LC-8 PC600LC-8R	Double-grouser	600 (24")*	59440 (9213)	1.04 (14.8)	±0	: 4.0 m (13'1")
						: 3.0 m (9'10")
						: 4.0 m ³ (5.2 cu.yd)
PC750-7	Double-grouser	610 (24")*	60170 (9326)	1.26 (17.9)	±0	: 4.6 m (15'1")
		710 (28")	70030 (10855)	1.10 (15.6)	+800 (1764)	: 3.4 m (11'2")
						: 4.5 m ³ (5.9 cu.yd)
PC800-8 PC800-8R	Double-grouser	610 (24")*	60170 (9326)	1.27 (18.1)	±0	: 4.6 m (15'1")
						: 3.4 m (11'2")
						: 4.5 m ³ (5.9 cu.yd)
PC1250-7	Double-grouser	700 (28")*	76450 (11850)	1.44 (20.5)	±0	: 5.3 m (17'5")
						: 3.8 m (12'6")
						: 6.5 m ³ (8.5 cu.yd)
PC1250-8 PC1250-8R	Double-grouser	700 (28")*	76450 (11850)	1.45 (20.6)	±0	: 5.3 m (17'5")
						: 3.8 m (12'6")
						: 6.5 m ³ (8.5 cu.yd)
PC2000-8	Double-grouser	810 (32")*	103020 (15970)	1.90 (27.0)	±0	: 5.95 m (19'6")
						: 4.45 m (14'7")
						: 11 m ³ (14.4 cu.yd)
PC3000-6 (Diesel Drive)	Double-grouser	800 (31.4")*	106696 (16538)	2.36 (33.6)	±0	: 6 m (19'8")
		1000 (39.3")	133370 (20672)	1.96 (27.9)	+9000 (19840)	: 4.3 m (14'1")
		1200 (47.2")	160044 (24807)	1.63 (23.2)	+9000 (19840)	: 15 m ³ (19.6 cu.yd)
PC4000-6 (Diesel Drive)	Double-grouser	1200 (47.2")*	178793 (27713)	2.19 (31.1)	±0	: 7.15 m (23'6")
		1500 (59")	223491 (34641)	1.77 (25.2)	+5000 (11020)	: 4.9 m (16'1")
						: 22 m ³ (28.8 cu.yd)
PC5500-6 (Diesel Drive)	Double-grouser	1350 (53")*	222145 (34432)	2.40 (34.1)	±0	: 7.6 m (24'11")
		1800 (71")	296194 (45910)	1.85 (26.3)	+14000 (30860)	: 5.6 m (18'4")
						: 29 m ³ (37.9 cu.yd)
PC8000-6 (Diesel Drive)	Double-grouser	1500 (59")*	270668 (41954)	2.72 (38.7)	±0	: 8.15 m (26'9")
		1900 (75")	342846 (53141)	2.19 (31.1)	+13000 (28660)	: 5.75 m (18'10")
						: 42 m ³ (55 cu.yd)

* Standard shoe

NOTE: The shoe for the long-track excavator (L and LC), wide shoe (excluding the narrowest shoe for a model) and swamp shoe are provided with low ground pressure. These shoes should be used on soft and swampy terrain where the standard excavator with standard shoe is not usable due to sinking of the tracks. If such shoes are used in swampy fields with stones, stumps and roots, bending of the shoe plates, cracks in the links, breakage of pins, loosening of shoe bolts and other damage may result. Therefore, the job site must be studied carefully, to provide the customer with correct instructions and advice.

	Shoe type	Shoe width mm (in)	Ground contact area cm ² (sq.in)	Ground pressure kg/ cm ² (PSI)	Change in operating weight kg (lb)	Boom Arm Bucket
PC3000-6 (Electric Drive)	Double-grouser	800 (31.4")*	106696 (16538)	2.35 (33.5)	±0	: 6 m (19'8")
		1000 (39.3")	133370 (20672)	1.95 (27.7)	+9000 (19840)	: 4.3 m (14'1")
		1200 (47.2")	160044 (24807)	1.62 (23.1)	+9000 (19840)	: 15 m ³ (19.6 cu.yd)
PC4000-6 (Electric Drive)	Double-grouser	1200 (47.2")*	178793 (27713)	2.14 (30.5)	±0	: 7.15 m (23'6")
		1500 (59")	223491 (34641)	1.74 (24.7)	+5000 (11020)	: 4.9 m (16'1")
						: 22 m ³ (28.8 cu.yd)
PC5500-6 (Electric Drive)	Double-grouser	1350 (53")*	222145 (34432)	2.40 (34.1)	±0	: 7.6 m (24'11")
		1800 (71")	296194 (45910)	1.85 (26.3)	+14000 (30860)	: 5.6 m (18'4")
						: 29 m ³ (37.9 cu.yd)
PC8000-6 (Electric Drive)	Double-grouser	1500 (59")*	270668 (41954)	2.68 (38.1)	±0	: 8.15 m (26'9")
		1900 (75")	342846 (53141)	2.15 (30.6)	+13000 (28660)	: 5.75 m (18'10")
						: 42 m ³ (55 cu.yd)

* Standard shoe

NOTE: The shoe for the long-track excavator (L and LC), wide shoe (excluding the narrowest shoe for a model) and swamp shoe are provided with low ground pressure. These shoes should be used on soft and swampy terrain where the standard excavator with standard shoe is not usable due to sinking of the tracks. If such shoes are used in swampy fields with stones, stumps and roots, bending of the shoe plates, cracks in the links, breakage of pins, loosening of shoe bolts and other damage may result. Therefore, the job site must be studied carefully, to provide the customer with correct instructions and advice.

Loading Shovel Buckets

HYDRAULIC LOADING SHOVELS

The bucket weight is heavier than the tilt-dump bucket. However, its characteristics of vertical dumping provide the following features

- Accurate loading is possible, because it is easy to position the bucket on the dumping point.
- Load spillage is less.
- Larger dumping clearance permits easier loading on the hauler.
- As it is possible to more closely position the bucket over the hauler's body, loading shock to the hauler can be minimized, extending the service life of the hauler.
- As a result of the above advantages, the cycle time is shortened.

Model	Bucket	Capacity m ³ (cu.yd)	Width mm (in)	Weight kg (lb)	Dump type	Recommen- dation
PC400-7 PC400LC-7 PC400-8 PC400-8R PC400LC-8 PC400LC-8R	Standard Bucket	2.6 (3.4)	1900 (74.8")	3270 (7,210)	Bottom	○
PC600-7 PC600LC-7 PC600-8 PC600-8R PC600LC-8 PC600LC-8R	Standard Bucket	4.0 (5.2)	2090 (82.3")	5700 (12,570)	Bottom	○
PC750-7 PC800-8 PC800-8R	Standard Bucket Light-material Bucket	4.5 (5.9) 5.1 (6.7)	2320 (91.3") 2670 (105.1")	5700 (12,570) 7360 (16,230)	Bottom Bottom	○ □
PC1250-7	Standard Bucket	6.5 (8.5)	2680 (105.5")	9700 (21,380)	Bottom	○
	Light material Bucket	7.2 (9.4)	2680 (105.5")	9800 (21,600)	Bottom	□
PC1250-8 PC1250-8R	Standard Bucket	6.5 (8.5)	2700 (106.3")	9730 (21,450)	Bottom	○
	Light material Bucket	7.2 (9.4)	2680 (105.5")	9800 (21,600)	Bottom	□
PC2000-8	Standard Bucket	11 (14.4)	3220 (126.8")	14400 (31,750)	Bottom	○

Applications

- : General digging and Loading
- △ : Light material work (Specific gravity, 1.2 and less)
- : Light material work (Specific gravity, 1.5 and less)
- : Heavy-duty work (Specific gravity, 1.5 ~ 2.0)

Model	Bucket Capacity	Width	Weight including Shrouds and WP-3*	Dump Type	Recommen- dation
	Heaped 2:1				
	m ³ (cu.yd)				
PC3000-6	15 (19.6)	3790 (149")	23140 (51,010)	bottom	○
PC4000-6	22 (28.8)	4020 (158")	34780 (76,680)	bottom	○
PC5500-6	29 (37.9)	4565 (180")	50200 (110,670)	bottom	○
PC8000-6	42 (55)	5375 (212")	67160 (148,060)	bottom	○

* Wear package No.

- : General rock bucket for digging and loading
- △ : Light material work
- : Heavy-duty work

HYDRAULIC LOADING SHOVEL AND DUMP TRUCK COMBINATION

HYDRAULIC EXCAVATOR		RIGID DUMP TRUCK					
MODEL (L/S)	BUCKET CAPACITY (HEAPED) m ³ (cu.yd)	HD255	HD325	HD405	HD465	HD605	HD785
		Payload m. ton (U.S. ton)					
		25 (27.6)	36.5 (40)	41 (45)	55 (61)	63 (69)	91 (100)
		Body Capacity m ³ (cu. yd)					
(SAE)	17.7 (23.2)	24.0 (31.4)	27.3 (35.7)	34.2 (44.7)	40 (52.3)	60 (78.5)	
PC400	2.6 (3.4)	5					
PC600LC	4.0 (5.2)	3	5	6			
PC750	4.5 (5.9)	3	5	5			
PC800	5.1 (6.7)	3	4	4			
PC1250	6.5 (8.5)	2	3	4	5	5	
PC2000	11.0 (14.4)				3	3	5

HYDRAULIC EXCAVATOR		RIGID DUMP TRUCK					
MODEL (L/S)	BUCKET CAPACITY (HEAPED) m ³ (cu.yd)	HD785	HD1500	730E	830E 830E-AC	930E-4 930E-4SE	960E
		Payload m. ton (U.S. ton)					
		91 (100)	144 (159)	184 (203)	222 (244)	292 (320)	327 (360)
		Body Capacity m ³ (cu. yd)					
(SAE)	60 (78.5)	78 (102)	111 (145)	147 (193)	211 (276)	214 (280)	
PC3000	15.0 (19.6)	3 – 4	6				
PC4000	22.0 (28.8)		4	5			
PC5500	29.0 (37.9)		3	4	5	6	7
PC8000	42.0 (55)				4	4	5

Number of loads: 3–7 Suitable

Note: L/S: LOADING SHOVEL

Above combination is determined by following method;
(1) Suitable loading times (n): 4–6 times

$$n = \frac{\text{Max. payload of dump truck}}{\text{Bucket capacity} \times \text{Bucket fill factor} \times \text{Specific weight}} \text{ or } n = \frac{\text{Heaped capacity of dump truck}}{\text{Bucket capacity} \times \text{Bucket fill factor}}$$

Number of loading times is calculated based on following condition.

1. Calculate number of loading times from maximum payload of dump truck.
Please see formula 1.
2. Calculate number of loading times from body capacity of dump truck.
Please see formula 2.
3. Adopt lower number between formula 1 and formula 2.

Formula 1

Number of loading = Payload of truck (metric tonnes) / (Bucket capacity of loader (m³) x loose density x bucket factor)

Formula 2

Number of loading = Body capacity (cubic meter) / (Bucket capacity of loader (m³) x bucket factor)

We adopt following condition.

Density = 1.8 metric tonnes per cubic meter
Bucket factor = 1.0

Calculated number of loading times are rounded off to the first decimal place.

Estimated Hourly Production

ESTIMATED CYCLE TIME		BUCKET SIZE** (m ³) OR (cu.yd)															
SEC.	MIN.	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
15.0	0.25	600	672	744	816	888	960	1032	1104	1200	1320	1440	1560	1680	1800	1920	2040
18.0	0.30	500	560	620	680	740	800	860	920	1000	1100	1200	1300	1400	1500	1600	1700
21.0	0.35	429	480	531	583	634	686	737	789	857	943	1029	1114	1200	1286	1371	1457
24.0	0.40	375	420	465	510	555	600	645	690	750	825	900	975	1050	1125	1200	1275
27.0	0.45	333	373	413	453	493	533	573	613	667	733	800	867	933	1000	1067	1133
30.0	0.50	300	336	372	408	444	480	516	552	600	660	720	780	840	900	960	1020
33.0	0.55	273	305	338	371	404	436	469	502	545	600	655	709	764	818	873	927
36.0	0.60	250	280	310	340	370	400	430	460	500	550	600	650	700	750	800	850

ESTIMATED CYCLE TIME		BUCKET SIZE** (m ³) OR (cu.yd)															
SEC.	MIN.	9.0	9.5	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	20	22	25	28	35	38
15.0	0.25	2160	2280	2400	2640	2880	3120	3360	3600	3840	4080						
18.0	0.30	1800	1900	2000	2200	2400	2600	2800	3000	3200	3400						
21.0	0.35	1543	1629	1714	1886	2057	2229	2400	2571	2743	2914	3428	3771	4285	4800	6000	6514
24.0	0.40	1350	1425	1500	1650	1800	1950	2100	2250	2400	2550	3000	3300	3750	4200	5250	5700
27.0	0.45	1200	1267	1333	1467	1600	1733	1867	2000	2133	2267	2666	2933	3333	3733	4666	5066
30.0	0.50	1080	1140	1200	1320	1440	1560	1680	1800	1920	2040	2400	2640	3000	3360	4200	4560
33.0	0.55	982	1036	1091	1200	1309	1418	1527	1636	1745	1855	2181	2400	2727	3054	3818	4145
36.0	0.60	900	950	1000	1100	1200	1300	1400	1500	1600	1700	2000	2200	2500	2800	3500	3800

** Bucket size: Heaped bucket capacity

*** Cycle time: Refer to the section 16A "Productivity"

Actual production = (Estimated Hourly production) × (Bucket fill factor) × (Job efficiency)

Bucket Fill Factor (K) (PC400~PC2000)

Loading conditions	K
Easy loading	1.0~1.1
Average loading	0.95~1.0
Rather difficult loading	0.90~0.95
Difficult loading	0.85~0.90

Job Efficiency(E)

Operating conditions	E
Good	0.83
Average	0.75
Rather poor	0.67
Poor	0.58

Bucket Fill Factor (K) (PC3000~PC8000)*4

Loading conditions	K
Easy loading	1.0
Average loading	0.95
Severe loading	0.90

*4 : KMG Mining Shovels (Loading shovel)

SECTION **2F**

WHEEL-TYPE EXCAVATORS

CONTENTS

Features	2F-2
Specifications	2F-3
Dimensions	2F-6
Working Ranges, Digging Force	2F-8
Bucket and Arm Combinations	2F-10
Lifting Capacity	2F-12

High mobility

- A high-power KOMATSU engine gives it a higher travel speed for quick relocation.
- Four-wheel drive and double tires both front and rear make it easy to travel over rough or soft terrain.

High working performance

- Large working range and strong digging force.
- The PC system makes full use of engine power.
- A two-pump merge system increases work equipment speed and reduces cycle time.
- Smooth, responsive swing starts and stops.
- High lifting capacity and good stability.

High operating versatility

- Extra-small swing radius boosts operating versatility.
- Excellent stability due to oscillation lock cylinders and double tires.

Enhanced operator comfort

- Hydrostatic drive system assures smooth, easy travel speed changes.
- Newly designed cab offers greater comfort.

Excellent safety and easy maintenance

- Four wheel disc brake with positive braking
- One of the features now on the new wheeled excavator is a walkway across the excavator superstructure, giving easy access to the engine compartment.
(PW180-7, PW200-7, PW220-7)

In harmony with the environment

- Low emission engine
The powerful turbocharged and air-to-air aftercooled Komatsu SAA4D107E and SAA6D107E engine meets Tier 3 and Stage 3A emissions standards with increased power and machine productivity.
- Economy mode reduces fuel consumption
- Low operating noise
- Designed for easy end of life recycling
(PW140 and over)

Undercarriage

- Designed for high ground clearance
- High oscillation angle
- Virtually zero axle rocking with outboard wet disc system
- Powerful drawbar pull
- Automatic 3-speed travel
- Class leading 35 km/h maximum travel speed
(PW140-7 and over)

SpaceCab™

The new PW140/160/180/200/220-7's cab space have been increased by 14%, offering an exceptionally-roomy operating environment.

- High-pressurised cabin with optional air conditioner
- Low-noise design
- Low-vibration design with cabin damper mounting
- Cab moved forward for better visibility
- Ergonomic control levers
- Seat specially designed for wheeled machines, with exceptional extra comfort.
(PW140-7 and over)

Specifications

WHEEL-TYPE EXCAVATORS

Item		Model	PW98MR-6***	PW110R-1**	PW110R-1***
OPERATING WEIGHT*	kg (lb)		8620 (19,000)	9750 (21,940)	10170 (22,420)
HORSEPOWER: (ISO9249)	kW (HP)/RPM		51 (68.4)/2000	70.9 (95)/2000	70.9 (95)/2000
BUCKET CAPACITY RANGE (SAE)	m ³ (cu.yd)		0.077 ~ 0.282 (0.10) (0.37)	0.093 ~ 0.4 (0.12) (0.52)	0.093 ~ 0.4 (0.12) (0.52)
PERFORMANCE:					
Swing speed	RPM		10	8.5	8.5
Travel speeds	km/h (MPH)				
1st			6.0 (3.7)	4.0 (2.5)	4.0 (2.5)
2nd			10 (6.2)	9.0 (5.6)	9.0 (5.6)
3rd			23 (14.3)	14 (8.7)	14 (8.7)
4th			30 (18.6)	32 (19.9)	32 (19.9)
DIMENSIONS: See the page of DIMENSIONS					
ENGINE:					
Model			KOMATSU S4D95LE-3	KOMATSU 4D106-1FB	KOMATSU 4D106-1FB
No. of cylinders- bore × stroke	mm (in)		4-95 × 115 (3.74 × 4.53)	4-106 × 125 (4.17 × 4.92)	4-106 × 125 (4.17 × 4.92)
Piston displacement	ltr. (cu.in)		3.26 (199)	4.412 (269)	4.412 (269)
HYDRAULIC SYSTEM:					
Hydraulic pump			1 × Variable Piston + 1 × Gear pump	1 × Variable Piston + 1 × Gear pump	1 × Variable Piston + 1 × Gear pump
Max. oil flow	ltr.(U.S. Gal)/min.		231 (61.0)	253 (66.8)	253 (66.8)
Relief valve setting (Implement)	kg/cm ² (PSI)		270 (3840)	300 (4270)	300 (4270)
WHEELS:					
(front)			8.25-20 × 4	9.00-20 × 4	9.00-20 × 4
(rear)			8.25-20 × 4	9.00-20 × 4	9.00-20 × 4
CAPACITY (Refilled):					
Fuel tank	ltr. (U.S. Gal)		125 (33.0)	150 (39.6)	150 (39.6)
Hydraulic oil tank			64 (16.9)	84 (22.2)	84 (22.2)
MACHINE SPEC.:					
Boom	mm (ft.in)		1650 (5'5")	2000 (6'7")	2000 (6'7")
Arm	mm (ft.in)				
Bucket (SAE)	m ³ (cu.yd)		0.28 (0.37)	0.32 (0.42)	0.32 (0.42)
Front and rear equipment			—		

Item		Model	PW140-7**	PW140-7***	PW160-7**
OPERATING WEIGHT*	kg (lb)		14345 (31,620)	14700 (32,410)	15950 (35,160)
HORSEPOWER: (ISO9249)	kW (HP)/RPM		86 (115)/2200	86 (115)/2200	90 (121)/2200
BUCKET CAPACITY RANGE (SAE)	m ³ (cu.yd)		0.20 ~ 0.97 (0.26) (1.27)	0.20 ~ 0.97 (0.26) (1.27)	0.20 ~ 0.97 (0.26) (1.27)
PERFORMANCE:					
Swing speed	RPM		11.0	11.0	11.0
Travel speeds	km/h (MPH)				
1st			2.0 (1.2)	2.0 (1.2)	2.0 (1.2)
2nd			8.5 (5.3)	8.5 (5.3)	10.0 (6.2)
3rd			35 (21.7)	35 (21.7)	35 (21.7)
Auto			35 (21.7)	35 (21.7)	35 (21.7)
DIMENSIONS: See the page of DIMENSIONS					
ENGINE:					
Model			KOMATSU SAA4D107E-3	KOMATSU SAA4D107E-3	KOMATSU SAA4D107E-1
No. of cylinders- bore × stroke	mm (in)		4-107 × 124 (4.21 × 4.88)	4-107 × 124 (4.21 × 4.88)	4-107 × 124 (4.21 × 4.88)
Piston displacement	ltr. (cu.in)		4.5 (275)	4.5 (275)	4.5 (275)
HYDRAULIC SYSTEM:					
Hydraulic pump			1 × Variable Piston	1 × Variable Piston	1 × Variable Piston
Max. oil flow	ltr.(U.S. Gal)/min.		252 (66.6)	252 (66.6)	308 (81)
Relief valve setting (Implement)	kg/cm ² (PSI)		380 (5400)	380 (5400)	380 (5400)
WHEELS:					
(front)			10.00-20-14PR × 4	10.00-20-14PR × 4	10.0-20-14PR × 4
(rear)			10.00-20-14PR × 4	10.00-20-14PR × 4	10.0-20-14PR × 4
CAPACITY (Refilled):					
Fuel tank	ltr. (U.S. Gal)		275 (72.7)	275 (72.7)	300 (79.3)
Hydraulic oil tank			123 (32.5)	123 (32.5)	166 (43.9)
MACHINE SPEC.:					
Boom	mm (ft.in)		4600 (15'1")	4980 (16'1")	5300 (17'5")
Arm	mm (ft.in)		2500 (8'2")	2500 (8'2")	2500 (8'2")
Bucket (SAE)	m ³ (cu.yd)		0.48 (0.63)	0.48 (0.63)	0.62 (0.81)
Front and rear equipment			—		
			2 outriggers + blade	2 outriggers + blade	2 outriggers + blade

* Operating weight includes coolant, lubricants, full fuel tank, operator 80 kg (180 lb) and, indicated implement.

** One piece boom

*** Two piece boom

Specifications

WHEEL-TYPE EXCAVATORS

Item		Model	PW160-7***	PW180-7**	PW180-7***
OPERATING WEIGHT*	kg (lb)		16340 (36,020)	17990 (39,660)	18220 (40,170)
HORSEPOWER: (ISO9249)	kW (HP)/RPM		90 (121)/2200	109 (146)/2000	109 (146)/2000
BUCKET CAPACITY RANGE (SAE)	m ³ (cu.yd)		0.20 ~ 0.97 (0.26) (1.27)	0.38 ~ 1.13 (0.50) (1.48)	0.38 ~ 1.13 (0.50) (1.48)
PERFORMANCE:					
Swing speed	RPM		11.0	11.5	11.5
Travel speeds	km/h (MPH)				
1st			2.0 (1.2)	2.5 (1.6)	2.5 (1.6)
2nd			10.0 (6.2)	9.5 (5.9)	9.5 (5.9)
3rd			35 (21.7)	35 (21.7)	35 (21.7)
Auto			35 (21.7)	35 (21.7)	35 (21.7)
DIMENSIONS: See the page of DIMENSIONS					
ENGINE:					
Model			KOMATSU SAA4D107E-1	KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1
No. of cylinders- bore × stroke	mm (in)		4-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)
Piston displacement	ltr. (cu.in)		4.5 (275)	6.69 (408)	6.69 (408)
HYDRAULIC SYSTEM:					
Hydraulic pump			1 × Variable Piston	1 × Variable Piston	1 × Variable Piston
Max. oil flow	ltr. (U.S. Gal)/min.		308 (81)	308 (81)	308 (81)
Relief valve setting (Implement)	kg/cm ² (PSI)		380 (5400)	380 (5400)	380 (5400)
WHEELS:	(front) (rear)		10.0-20-14PR × 4 10.0-20-14PR × 4	10.00-20-16PR × 4 10.00-20-16PR × 4	10.00-20-16PR × 4 10.00-20-16PR × 4
CAPACITY (Refilled):					
Fuel tank	ltr. (U.S. Gal)		300 (79.3)	325 (85.9)	325 (85.9)
Hydraulic oil tank			166 (43.9)	120 (31.7)	120 (31.7)
MACHINE SPEC.:*					
Boom	mm (ft.in)		5223 (17'2")	5350 (17'7")	5280 (17'4")
Arm	mm (ft.in)		2500 (8'2")	2600 (8'6")	2600 (8'6")
Bucket (SAE)	m ³ (cu.yd)		0.62 (0.81)	0.75 (0.98)	0.75 (0.98)
Front and rear equipment	—		2 outriggers + blade	2 outriggers + blade	2 outriggers + blade

Item		Model	PW200-7**	PW200-7***	PW220-7**
OPERATING WEIGHT*	kg (lb)		20860 (45,990)** ⁴ 21270 (46,890)** ⁵	21540 (47,490)** ⁴ 21930 (48,350)** ⁵	22390 (49,360)
HORSEPOWER: (ISO9249)	kW (HP)/RPM		125 (168)/2000	125 (168)/2000	125 (168)/2000
BUCKET CAPACITY RANGE (SAE)	m ³ (cu.yd)		0.48 ~ 1.68 (0.63) (2.20)	0.48 ~ 1.68 (0.63) (2.20)	0.48 ~ 1.68 (0.63) (2.20)
PERFORMANCE:					
Swing speed	RPM		12.4	12.4	12.4
Travel speeds	km/h (MPH)				
1st			1.5 (0.9)	1.5 (0.9)	1.5 (0.9)
2nd			9.0 (5.6)	9.0 (5.6)	9.5 (5.9)
3rd			35 (21.7)	35 (21.7)	35 (21.7)
Auto			35 (21.7)	35 (21.7)	35 (21.7)
DIMENSIONS: See the page of DIMENSIONS					
ENGINE:					
Model			KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1
No. of cylinders- bore × stroke	mm (in)		6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)
Piston displacement	ltr. (cu.in)		6.69 (408)	6.69 (408)	6.69 (408)
HYDRAULIC SYSTEM:					
Hydraulic pump			2 × Variable Piston	2 × Variable Piston	2 × Variable Piston
Max. oil flow	ltr. (U.S. Gal)/min.		436.8 (115)	436.8 (115)	436.8 (115)
Relief valve setting (Implement)	kg/cm ² (PSI)		380 (5400)	380 (5400)	380 (5400)
WHEELS:	(front) (rear)		10.0-20-14PR × 4 10.0-20-14PR × 4	10.0-20-14PR × 4 10.0-20-14PR × 4	10.0-20-14PR × 4 10.0-20-14PR × 4
CAPACITY (Refilled):					
Fuel tank	ltr. (U.S. Gal)		370 (97.8)	370 (97.8)	370 (97.8)
Hydraulic oil tank			166 (43.9)	166 (43.9)	166 (43.9)
MACHINE SPEC.:*					
Boom	mm (ft.in)		5700 (18'8")	5400 (17'9")	5700 (18'8")
Arm	mm (ft.in)		2400 (7'10")	2400 (7'10")	2400 (7'10")
Bucket (SAE)	m ³ (cu.yd)		0.80 (1.05)	0.80 (1.05)	1.0 (1.31)
Front and rear equipment	—		2 outriggers + blade	2 outriggers + blade	2 outriggers + blade

* Operating weight includes coolant, lubricants, full fuel tank, operator 80 kg (180 lb) and, indicated implement.

** One piece boom

*** Two piece boom

⁴ 2.55 m (8'4") undercarriage spec.

⁵ 2.75 m (9'0") undercarriage spec.

Specifications

WHEEL-TYPE EXCAVATORS

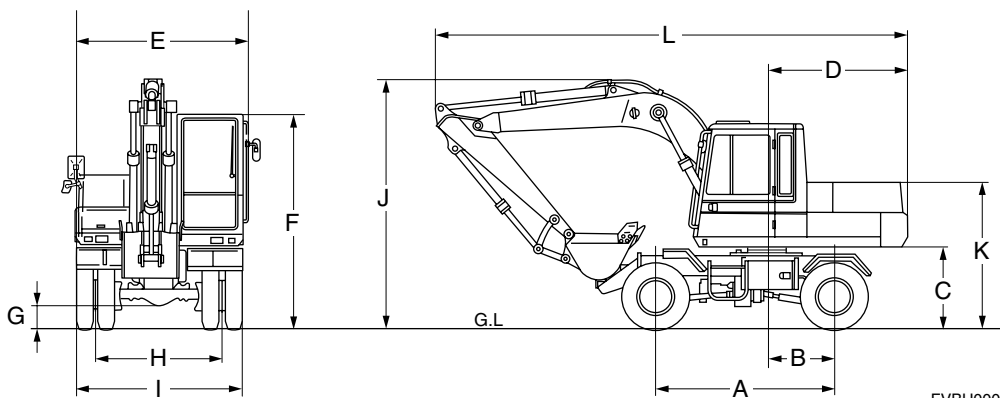
Item	Model	PW220-7***		
OPERATING WEIGHT*	kg (lb)	23030 (49,210)		
HORSEPOWER: (ISO9249)	kW (HP)/RPM	125 (168)/2000		
BUCKET CAPACITY RANGE (SAE)	m ³ (cu.yd)	0.48 ~ 1.68 (0.63) (2.20)		
PERFORMANCE: Swing speed Travel speeds 1st 2nd 3rd Auto	RPM km/h (MPH)	12.4 1.5 (0.9) 9.5 (5.9) 35 (21.7) 35 (21.7)		
DIMENSIONS:		See the page of DIMENSIONS		
ENGINE: Model No. of cylinders- bore x stroke Piston displacement	mm (in) ltr. (cu.in)	KOMATSU SAA6D107E-1 6-107 x 124 (4.21 x 4.88) 6.69 (408)		
HYDRAULIC SYSTEM: Hydraulic pump Max. oil flow Relief valve setting (Implement)	ltr. (U.S. Gal)/min. kg/cm ² (PSI)	2 x Variable Piston 436.8 (115) 380 (5400)		
WHEELS: (front) (rear)		10.0-20-14PR x 4 10.0-20-14PR x 4		
CAPACITY (Refilled): Fuel tank Hydraulic oil tank	ltr. (U.S. Gal)	370 (97.8) 166 (43.9)		
MACHINE SPEC.:* Boom Arm Bucket (SAE)	mm (ft.in) mm (ft.in) m ³ (cu.yd)	5400 (17'9") 2400 (7'10") 1.0 (1.31)		
Front and rear equipment	—	2 outriggers + blade		

* Operating weight includes coolant, lubricants, full fuel tank, operator 80 kg (180 lb) and, indicated implement.

*** Two piece boom

Dimensions

WHEEL-TYPE EXCAVATORS



FVBH0005

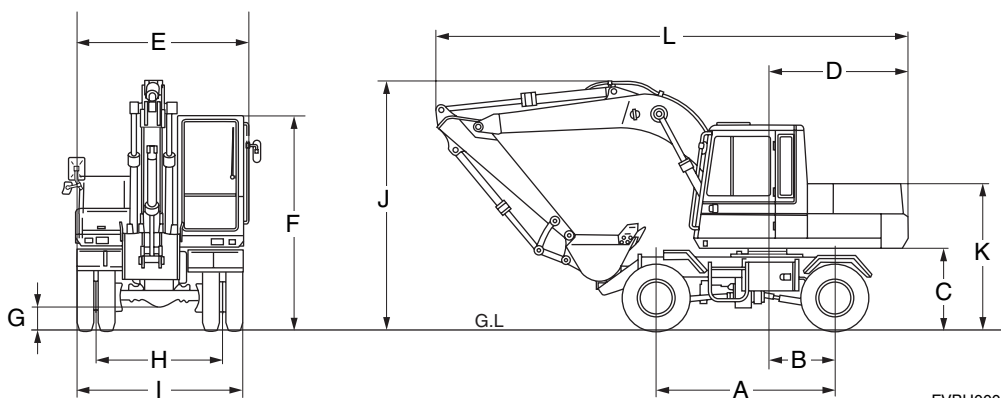
	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (ft.in)	J mm (ft.in)	K mm (ft.in)	L mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)	
PW98MR-6	2200 (7'3")	1000 (3'3")		1310 (4'4")		3050 (10'0")			2316 (7'7")			6079 (19'11")		1.65 (5'5")	
PW110R-1**	2400 (7'10")	1100 (3'7")	1175 (3'10")	1577 (5'2")	2120 (6'11")	3090 (10'2")	350 (1'2")	1945 (6'5")	2500 (8'2")			6540 (21'5")		1.85 (6'1")	
PW140-7*	2500 (8'2")	1250 (4'1")	1242 (4'1")	2050 (6'9")		3165 (10'5")	341 (1'1")	1914 (6'3")	2550 (8'4")	3290 (10'10")	2263 (7'5")	7508 (24'8")	4600 (15'1")	2.1 (6'11")	
														2.5 (8'2")	
														3.0 (9'10")	
PW140-7**	2500 (8'2")	1250 (4'1")	1242 (4'1")	2050 (6'9")		3165 (10'5")	341 (1'1")	1914 (6'3")	2550 (8'4")	3937 (12'11")	2263 (7'5")	5758 (18'11")	4980 (16'1")	2.1 (6'11")	
										3937 (12'11")		5739 (18'10")		2.5 (8'2")	
										3968 (13'0")		5828 (19'1")		3.0 (9'10")	
PW160-7*	2600 (8'6")	1300 (4'3")	1265 (4'2")	2180 (7'2")	2490 (8'2")	3200 (10'6")	350 (1'2")	1915 (6'3")	2500 (8'2")	3500 (11'6")	2290 (7'6")	8290 (27'2")	5.3 (17'5")	2.1 (6'11")	
										3500 (11'6")		8290 (27'2")		2.5 (8'2")	
										3975 (13'1")		8045 (26'5")		3.0 (9'10")	
PW160-7**	2600 (8'6")	1300 (4'3")	1265 (4'2")	2180 (7'2")	2490 (8'2")	3200 (10'6")	350 (1'2")	1915 (6'3")	2500 (8'2")	3975 (13'1")	2290 (7'6")		5.223 (17'2")	2.1 (6'11")	
										3975 (13'1")				2.5 (8'2")	
										3975 (13'1")				3.0 (9'10")	
PW180-7*	2600 (8'6")	1300 (4'3")	1303 (4'3")	2500 (8'2")	2490 (8'2")	3209 (10'6")	332 (1'1")	1914 (6'3")	2550 (8'4")	3720 (12'2")		8900 (29'2")	5.35 (17'7")	2.25 (7'5")	
															2.6 (8'6")
															2.9 (9'6")
PW180-7**	2600 (8'6")	1300 (4'3")	1303 (4'3")	2500 (8'2")	2490 (8'2")	3209 (10'6")	332 (1'1")	1914 (6'3")	2550 (8'4")	3972 (13')		6794 (22'3")	5.28 (17'4")	2.25 (7'5")	
										3972 (13')		6714 (22')		2.6 (8'6")	
										3960 (13')		6850 (22'7")		2.9 (9'6")	

* One piece boom

** Two piece boom

Dimensions

WHEEL-TYPE EXCAVATORS



FVBH0005

	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	H mm (ft.in)	I mm (ft.in)	J mm (ft.in)	K mm (ft.in)	L mm (ft.in)	Boom length m (ft.in)	Arm length m (ft.in)
PW200-7*	2750 (9'0")	1450 (4'9")	1327 (4'4")	2700 (8'10")	2516 (8'3")	3234 (10'7")	330 (1'1")	1914 (6'3")	2550 ^{*4} 2750 ^{*5} (9'0")	3906 (12'10")	2342 (7'8")	9479 (31'1")	5.7 (18'8")	1.8 (5'11")
										3895 (12'9")		9435 (30'11")		2.4 (7'10")
										3912 (12'10")		9427 (30'11")		2.9 (9'6")
										3985 (13'1")		9467 (31'1")		3.5 (11'6")
PW200-7**	2750 (9'0")	1450 (4'9")	1327 (4'4")	2700 (8'10")	2516 (8'3")	3234 (10'7")	330 (1'1")	1914 (6'3")	2550 ^{*4} 2750 ^{*5} (9'0")	3980 (13'1")	2342 (7'8")	7070 (23'2")	5.4 (17'9")	1.8 (5'11")
										3980 (13'1")		7078 (23'3")		2.4 (7'10")
										3997 (13'1")		7000 (23'0")		2.9 (9'6")
										4505 (14'9")		7218 (23'8")		3.5 (11'6")
PW220-7*	2750 (9'0")	1450 (4'9")	1341 (4'5")	2700 (8'10")	2516 (8'3")	3248 (10'8")	345 (1'2")	2124 (7'0")	2750 (9'0")	3920 (12'10")	2356 (7'9")	9479 (31'1")	5.7 (18'8")	1.8 (5'11")
										3909 (12'10")		9435 (30'11")		2.4 (7'10")
										3926 (12'11")		9427 (30'11")		2.9 (9'6")
										3999 (13'1")		9467 (31'1")		3.5 (11'6")
PW220-7**	2750 (9'0")	1450 (4'9")	1341 (4'5")	2700 (8'10")	2516 (8'3")	3248 (10'8")	345 (1'2")	2124 (7'0")	2750 (9'0")	3995 (13'1")	2356 (7'9")	7070 (23'2")	5.4 (17'9")	1.8 (5'11")
										3995 (13'1")		7078 (23'3")		2.4 (7'10")
										4011 (13'2")		7000 (23'0")		2.9 (9'6")
										4519 (14'10")		7218 (23'8")		3.5 (11'6")

* One piece boom

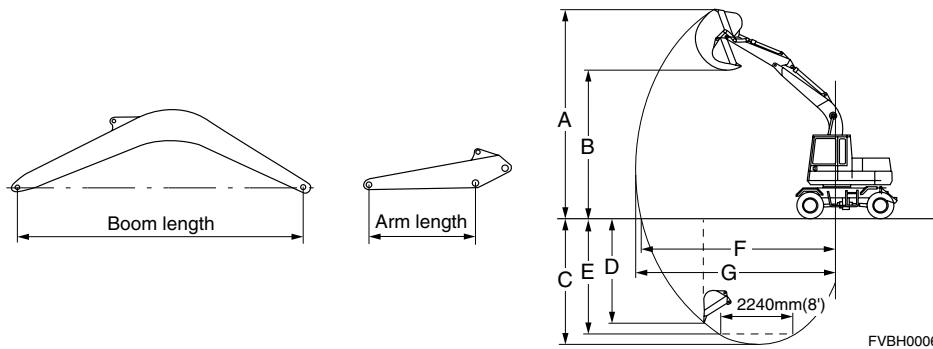
** Two piece boom

^{*4} 2.55 m (8'4") undercarriage spec.

^{*5} 2.75 m (9'0") undercarriage spec.

Working Ranges Digging Force

WHEEL-TYPE EXCAVATORS



FVBH0006

	Boom Length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Bucket digging force ** kg (lb/kN)	Arm crowd force ** kg (lb/kN)
PW98MR-6**		1.65 (5'5")	8358 (27'5")	6307 (20'8")	4019 (13'2")	3386 (11'1")		7286 (23'11")	7578 (24'10")	6250 (13,780/61.3)	4230 (9,330/41.5)
		1.9 (6'3")	8600 (28'3")	6548 (21'6")	4272 (14'0")	3623 (11'11")		7547 (24'9")	7827 (25'8")		
		2.25 (7'5")	8938 (29'4")	6887 (22'7")	4618 (15'2")	3952 (13'0")		7910 (25'11")	8176 (26'10")		
PW110R-1**		1.85 (6'1")	8380 (27'6")	6370 (20'11")	3995 (13'1")	3255 (10'8")			7890 (25'11")	7500 (16,530/73.4)	4300 (9,480/42.2)
		2.0 (6'7")	8520 (27'11")	6510 (21'4")	4145 (13'7")	3395 (11'2")			8035 (26'4")		
PW140-7*	4600 (15'1")	2.1 (6'11")	7980 (26'2")	5731 (18'10")	4462 (14'8")	3630 (11'11")	4025 (13'2")	7740 (25'5")	7928 (26'0")	8480 (18,700/93)	8160 (17,990/80)
		2.5 (8'2")	8270 (27'2")	6020 (19'9")	4860 (15'11")	4005 (13'2")	4570 (15'10")	8140 (26'8")	8290 (27'2")		6830 (15,060/67)
		3.0 (9'10")	8703 (28'7")	6449 (21'2")	5362 (17'7")	4470 (14'8")	4955 (16'3")	8640 (26'8")	8775 (28'9")		5710 (12,590/56)
PW140-7**	4980 (16'1")	2.1 (6'11")	9228 (30'3")	6844 (22'5")	4855 (15'11")	3555 (11'8")	4515 (14'10")	7740 (25'5")	8268 (27'2")	8480 (18,700/93)	8160 (17,990/80)
		2.5 (8'2")	9518 (31'3")	7133 (23'5")	5245 (17'3")	4000 (13'1")	4935 (16'2")	8140 (26'8")	8681 (28'6")		6830 (15,060/67)
		3.0 (9'10")	9951 (32'8")	7562 (24'10")	5745 (18'10")	4495 (14'9")	5460 (17'11")	8640 (28'4")	9000 (29'6")		5710 (12,590/56)
PW160-7*	5.22 (17'2")	2.1 (6'11")	8730 (28'8")	6335 (20'9")	4925 (16'2")			8620 (28'3")	8640 (28'4")	10400 (22,930/102)	7740 (17,060/75.9)
		2.5 (8'2")	8930 (29'4")	6555 (21'6")	5320 (27'5")			8885 (29'2")	9070 (29'9")		6500 (14,300/63.7)
		3.0 (9'10")	9285 (30'6")	6911 (22'8")	5600 (18'4")			9315 (30'7")	9485 (31'1")		5420 (11,950/53.2)
PW160-7**	5.22 (17'2")	2.1 (6'11")	9745 (32'0")	7285 (23'11")	4960 (16'3")			8310 (27'3")	8505 (27'11")	10400 (22,930/102)	7740 (17,060/75.9)
		2.5 (8'2")	10118 (33'2")	7655 (25'1")	5465 (17'11")			8745 (28'8")	8930 (29'4")		6500 (14,300/63.7)
		3.0 (9'10")	10575 (34'8")	8117 (26'8")	5770 (18'11")			9225 (30'3")	9410 (30'10")		5420 (11,950/53.2)
PW180-7*	5.35 (17'7")	2.25 (7'5")	9458 (31'0")	6915 (22'8")	5321 (17'5")			8876 (29'1")	9061 (29'9")	12500 (27,560/123)	9700 (21,380/95.1)
		2.6 (8'6")	9562 (31'4")	7064 (23'2")	5676 (18'7")			9170 (30'1")	9345 (30'8")		9000 (19,840/88.3)
		2.9 (9'6")	9756 (32'0")	7236 (23'9")	5966 (19'7")			9759 (32'0")	9929 (32'7")		8100 (17,860/79.4)
PW180-7**	5.28 (17'4")	2.25 (7'5")	9942 (32'7")	7283 (23'10")	5400 (17'9")			8907 (29'3")	9080 (29'9")	12500 (27,560/123)	9700 (21,380/95.1)
		2.6 (8'6")	10129 (33'3")	7489 (24'7")	5742 (18'10")			9227 (30'3")	9401 (30'10")		9000 (19,840/88.3)
		2.9 (9'6")	10350 (33'11")	7709 (25'4")	6044 (19'10")			9509 (31'2")	9683 (31'9")		8100 (17,860/79.4)

* One piece boom

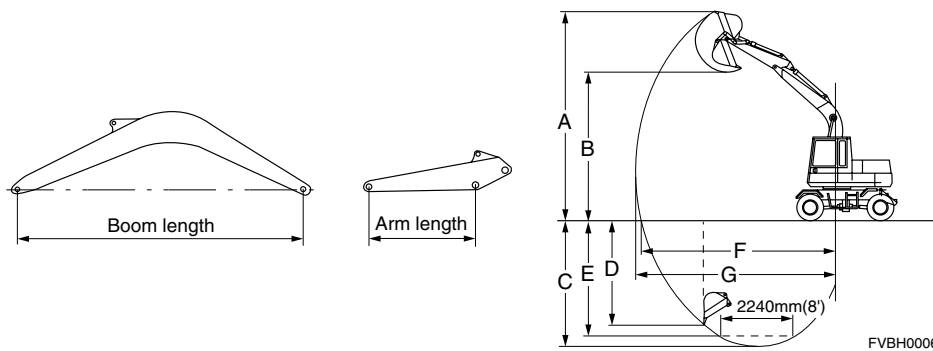
*** Two piece boom & rotary arm

** Two piece boom

** Using power max function, except PW98MR and PW110R, ISO rating

Working Ranges Digging Force

WHEEL-TYPE EXCAVATORS



	Boom length m (ft.in)	Arm length m (ft.in)	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F mm (ft.in)	G mm (ft.in)	Bucket digging force* ⁴ kg (lb/kN)	Arm crowd force* ⁴ kg (lb/kN)
PW200-7*	5.7 (18'8")	1.8 (5'11")	9467 (31'1")	6704 (22'0")	4791 (15'9")	4141 (13'7")	4575 (15'0")	8867 (29'1")	9061 (29'9")	17950* ⁵ (39,570/176)	14800 (32,630/145)
		2.4 (7'11")	9883 (32'5")	7057 (23'2")	5402 (17'9")	4745 (15'7")	5225 (17'2")	9438 (31'0")	9651 (31'8")		13000 (28,660/127)
		2.9 (9'6")	10003 (32'10")	7229 (23'9")	5917 (19'5")	5227 (17'2")	5763 (18'11")	9875 (32'5")	10060 (33'0")	15190 (33,490/149)	11000 (24,250/108)
		3.5 (11'6")	10438 (34'3")	7612 (25'0")	6500 (21'4")	5809 (19'1")	6366 (20'11")	10478 (34'5")	10642 (34'11")		9100 (20,060/89)
PW200-7**	5.4 (17'9")	1.8 (5'11")	9532 (31'3")	6670 (21'11")	5186 (17'0")	4104 (13'6")	5119 (16'10")	8599 (28'3")	8818 (28'11")	17950* ⁵ (39,570/176)	14800 (32,630/145)
		2.4 (7'11")	9842 (32'3")	6982 (22'11")	5785 (19'0")	4666 (15'4")	5713 (18'9")	9144 (30'0")	9348 (30'8")		13000 (28,660/127)
		2.9 (9'6")	10168 (33'4")	7298 (23'11")	6285 (20'7")	5208 (17'1")	6226 (20'5")	9634 (31'7")	9822 (32'3")	15190 (33,490/149)	11000 (24,250/108)
		3.5 (11'6")	10434 (34'3")	7574 (24'10")	6860 (22'6")	5768 (18'11")	6793 (22'3")	10156 (33'4")	10338 (33'11")		9100 (20,060/89)
PW220-7*	5.7 (18'8")	1.8 (5'11")	9467 (31'1")	6704 (22'0")	4791 (15'9")	4141 (13'7")	4575 (15'0")	8867 (29'1")	9061 (29'9")	17950* ⁵ (39,570/176)	14800 (32,630/145)
		2.4 (7'11")	9883 (32'5")	7057 (23'2")	5402 (17'9")	4745 (15'7")	5225 (17'2")	9438 (31'0")	9651 (31'8")		13000 (28,660/127.5)
		2.9 (9'6")	10003 (32'10")	7229 (23'9")	5917 (19'5")	5227 (17'2")	5763 (18'11")	9875 (32'5")	10060 (33'0")	15190 (33,490/149)	11000 (24,250/108)
		3.5 (11'6")	10438 (34'3")	7612 (25'0")	6500 (21'4")	5809 (19'1")	6366 (20'11")	10478 (34'5")	10642 (34'11")		9100 (20,060/89)
PW220-7**	5.4 (17'9")	1.8 (5'11")	9532 (31'3")	6670 (21'11")	5186 (17'0")	4104 (13'6")	5119 (16'10")	8599 (28'3")	8818 (28'11")	17950* ⁵ (39,570/176)	14800 (32,630/145)
		2.4 (7'11")	9842 (32'3")	6982 (22'11")	5785 (19'0")	4666 (15'4")	5713 (18'9")	9144 (30'0")	9348 (30'8")		13000 (28,660/127.5)
		2.9 (9'6")	10168 (33'4")	7298 (23'11")	6285 (20'7")	5208 (17'1")	6226 (20'5")	9634 (31'7")	9822 (32'3")	15190 (39,570/149)	11000 (24,250/108)
		3.5 (11'6")	10434 (34'3")	7574 (24'10")	6860 (22'6")	5768 (18'11")	6793 (22'3")	10156 (33'4")	10338 (33'11")		9100 (20,060/89)

* One piece boom

*** Two piece boom & rotary arm

** Two piece boom

*⁴ Using power max function, except PW98MR and PW110R, ISO rating

*⁵ With optional large bucket cylinder

Bucket and Arm Combinations

WHEEL-TYPE EXCAVATORS

These charts are based on over-side stability with fully loaded bucket at maximum reach. ○ Material weight up to 1.8 t/m ³ (3000 lb/cu.yd) □ Material weight up to 1.5 t/m ³ (2500 lb/cu.yd) △ Material weight up to 1.2 t/m ³ (2000 lb/cu.yd) × Not usable.							
Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters)	Arm length m (ft.in)		
SAE, PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without Side cutters mm (in)	With Side cutters mm (in)				
PW98MR-6					1.65 (5'5")	1.90 (6'3")	2.25 (7'5")
0.077 (0.10)	—	350 (13.8")	450 (17.7")	○	○	○	
0.109 (0.14)	—	450 (17.7")	550 (21.7")	○	○	○	
0.181 (0.24)	—	550 (21.7")	650 (25.6")	○	○	○	
0.235 (0.31)	—	650 (25.1")	750 (29.5")	○	○	○	
0.282 (0.37)	—	750 (29.5")	825 (32.5")	○	○	△	
PW110R-1							
0.093 (0.12)	—	300 (11.8")	—	168 (370)	○	○	
0.139 (0.18)	—	400 (15.7")	—	194 (428)	○	○	
0.181 (0.24)	—	500 (19.7")	—	218 (481)	○	○	
0.225 (0.29)	—	600 (23.6")	—	234 (516)	○	○	
0.27 (0.35)	—	700 (27.6")	—	252 (556)	○	○	
0.314 (0.41)	—	800 (31.5")	—	270 (595)	○	○	
0.36 (0.47)	—	900 (35.4")	—	294 (648)	○	△	
0.4 (0.52)	—	1000 (39.4")	—	320 (705)	○	△	
PW140-7					2.1 (6'11")	2.5 (8'2")	3.0 (9'10")
0.20 (0.26)	—	400 (15.7")	—	*270 (595)	○	○	
0.27 (0.35)	—	450 (17.7")	—	*300 (661)	○	○	
0.41 (0.54)	—	600 (23.6")	—	*420 (926)	○	○	
0.48 (0.63)	—	700 (27.6")	—	*445 (981)	○	○	
0.55 (0.72)	—	800 (31.5")	—	*460 (1014)	○	○	
0.62 (0.81)	—	900 (35.4")	—	*495 (1091)	○	○	
0.69 (0.90)	—	1000 (39.4")	—	*530 (1168)	○	○	
0.76 (0.99)	—	1100 (43.3")	—	*550 (1213)	○	□	
0.83 (1.09)	—	1200 (47.2")	—	*575 (1268)	○	□	
0.90 (1.18)	—	1300 (51.2")	—	*605 (1334)	□	□	
0.97 (1.27)	—	1400 (55.1")	—	*630 (1389)	□	△	
PW160-7					2.1 (6'11")	2.5 (8'2")	3.0 (9'10")
0.20 (0.26)	0.19 (0.25)	400 (15.7")	—	*270 (595)	○	○	
0.27 (0.35)	0.25 (0.33)	450 (17.7")	—	*300 (661)	○	○	
0.41 (0.55)	0.37 (0.48)	600 (23.6")	—	*420 (926)	○	○	
0.48 (0.63)	0.44 (0.58)	700 (27.6")	—	*445 (981)	○	○	
0.55 (0.72)	0.50 (0.65)	800 (31.5")	—	*460 (1014)	○	○	
0.62 (0.81)	0.57 (0.75)	900 (35.4")	—	*495 (1091)	○	○	
0.69 (0.90)	0.63 (0.82)	1000 (39.4")	—	*530 (1168)	○	○	
0.76 (0.99)	0.69 (0.90)	1100 (43.3")	—	*550 (1213)	○	□	
0.83 (1.09)	0.76 (0.99)	1200 (47.2")	—	*575 (1268)	□	□	
0.90 (1.18)	0.82 (1.07)	1300 (51.2")	—	*605 (1334)	□	△	
0.97 (1.27)	0.89 (1.16)	1400 (55.1")	—	*630 (1389)	△	△	
PW180-7					2.3	2.6 (8'6")	2.9 (9'6")
0.38 (0.50)	—	600 (23.6")	—	*385 (849)	○	○	
0.47 (0.61)	—	700 (27.6")	—	*435 (959)	○	○	
0.56 (0.73)	—	800 (31.5")	—	*465 (1025)	○	○	
0.66 (0.86)	—	900 (35.4")	—	*495 (1091)	○	○	
0.75 (0.98)	—	1000 (39.4")	—	*530 (1168)	○	○	
0.94 (1.23)	—	1200 (47.2")	—	*615 (1356)	□	□	
1.13 (1.48)	—	1400 (55.1")	—	*695 (1532)	△	△	

* Without side cutters

Bucket and Arm Combinations

WHEEL-TYPE EXCAVATORS

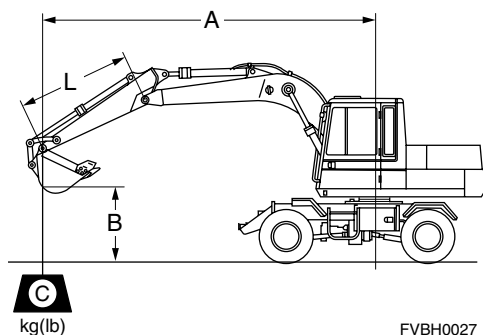
These charts are based on over-side stability with fully loaded bucket at maximum reach.
 ○ Material weight up to 1.8 t/m³ (3000 lb/cu.yd) □ Material weight up to 1.5 t/m³ (2500 lb/cu.yd)
 △ Material weight up to 1.2 t/m³ (2000 lb/cu.yd) ✕ Not usable.

Bucket capacity (heaped)		Width		Weight kg (lb) (With side cutters)	Arm length m (ft.in)			
SAE,PCSA m ³ (cu.yd)	CECE m ³ (cu.yd)	Without Side cutters mm (in)	With Side cutters mm (in)		1.8 (5'11")	2.4 (7'11")	2.9 (9'6")	3.5 (11'6")
PW200-7					1.8 (5'11")	2.4 (7'11")	2.9 (9'6")	3.5 (11'6")
0.48 (0.63)	—	600 (23.6")		*480 (1058)	○	○	○	○
0.55 (0.72)	—	700 (27.6")		*530 (1168)	○	○	○	○
0.63 (0.82)	—	800 (31.5")		*580 (1279)	○	○	○	○
0.71 (0.93)	—	900 (35.4")		*610 (1345)	○	○	○	○
0.78 (1.02)	—	1000 (39.4")		*650 (1433)	○	○	○	□
0.86 (1.12)	—	1100 (43.3")		*700 (1543)	○	○	□	△
0.96 (1.26)	—	1200 (47.2")		*760 (1675)	○	○	□	△
1.03 (1.35)	—	1300 (51.2")		*810 (1786)	○	□	△	—
1.11 (1.45)	—	1400 (55.1")		*870 (1918)	□	△	△	—
1.19 (1.56)	—	1500 (59.1")		*930 (2050)	△	△	—	—
1.49 (1.95)	—	1600 (63.0")		*1100 (2425)	—	—	—	—
1.58 (2.07)	—	1700 (66.9")		*1500 (2535)	—	—	—	—
PW220-7					1.8 (5'11")	2.4 (7'11")	2.9 (9'6")	3.5 (11'6")
0.48 (0.63)	—	600 (23.6")		*480 (1058)	○	○	○	○
0.55 (0.72)	—	700 (27.6")		*530 (1168)	○	○	○	○
0.63 (0.82)	—	800 (31.5")		*580 (1279)	○	○	○	○
0.71 (0.93)	—	900 (35.4")		*610 (1345)	○	○	○	○
0.78 (1.02)	—	1000 (39.4")		*650 (1433)	○	○	○	○
0.86 (1.12)	—	1100 (43.3")		*700 (1543)	○	○	○	○
0.96 (1.26)	—	1200 (47.2")		*760 (1675)	○	○	○	□
1.03 (1.35)	—	1300 (51.2")		*810 (1786)	○	○	□	△
1.11 (1.45)	—	1400 (55.1")		*870 (1918)	○	□	□	△
1.19 (1.56)	—	1500 (59.1")		*930 (2050)	○	□	△	—
1.49 (1.95)	—	1600 (63.0")		*1100 (2425)	△	—	—	—
1.58 (2.07)	—	1700 (66.9")		*1500 (2535)	△	—	—	—
1.68 (2.20)	—	1800 (70.9")		*1200 (2646)	—	—	—	—

* Without side cutters

Lifting Capacity

WHEEL-TYPE EXCAVATORS



- A : Reach from swing center
- B : Bucket hook height
- C : Lifting capacity
- Cf : Rating over front
- Cs : Rating over side
- MAX : Rating at maximum reach
- L : Arm length

FVBH0027

PW98MR-6 (Two piece boom)

Conditions:

Bucket (SAE): 0.282 m³ (0.37 cu.yd), Tires:8.25-20

unit: kg

B	A	6.0 m		5.0 m		4.0 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1650 mm With blade above ground									
3.0 m		800	700	1050	950	1500	1400	*2400	*2400
1.5 m		750	650	1000	900	1400	1300	*2340	*2340
0 m		700	600	900	800	1350	1250	*2450	2100
-1.5 m				900	800	1350	1250	*2500	2100
Arm length 1900 mm With blade above ground									
3.0 m		850	750	1100	1000	1550	1450		
1.5 m		800	700	1050	950	1450	1350	*2200	*2200
0 m		750	650	950	850	1400	1300	*2400	2000
-1.5 m		750	650	950	850	1400	1300	*2450	2000
Arm length 2250 mm With blade above ground									
3.0 m		900	800	1150	1050	1600	1500		
1.5 m		850	750	1100	1000	1500	1400		
0 m		800	700	1000	900	1450	1350	*2300	1900
-1.5 m		800	700	1000	900	1450	1350	*2350	1900

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

Conditions:

Bucket (SAE): 0.282 m³ (0.37 cu.yd), Tires:8.25-20

unit: kg

B	A	6.0 m		5.0 m		4.0 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1650 mm With blade on ground									
3.0 m		*1950	800	*2100	1050	*2250	1500	*2400	*2400
1.5 m		*1900	750	*2050	1000	*2200	1400	*2340	*2340
0 m		*2000	700	*2150	950	*2300	1350	*2450	*2450
-1.5 m				*2200	900	*2350	1350	*2500	*2500
Arm length 1900 mm With blade on ground									
3.0 m		*1900	850	*2050	1100	*2200	1550		
1.5 m		*1850	800	*2000	1050	*2150	1450	*2200	*2200
0 m		*1950	750	*2100	1000	*2250	1400	*2400	*2400
-1.5 m		*2000	750	*2150	950	*2300	1400	*2450	2450
Arm length 2250 mm With blade above ground									
3.0 m		*1850	900	*2000	1150	*2150	1600		
1.5 m		*1800	850	*1950	1100	*2100	1500		
0 m		*1900	800	*2050	1050	*2200	1450	*2300	*2300
-1.5 m		*1950	800	*2100	1000	*2250	1450	*2350	*2350

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW110R-1 (One piece boom)

Conditions:

Bucket (SAE): 0.32 m³ (0.42 cu.yd), Tires: 9.00-20

unit: kg (lb)

B	A	MAX		6.0 m (20')		4.5 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1850 mm (6'1") With blade and outrigger above ground									
4.5 m (15')		1000 (2200)	900 (2000)			2100 (4600)	1900 (4200)		
3.0 m (10')		800 (1750)	700 (1550)	950 (2100)	700 (1550)	*1900 (4200)	1700 (3750)		
1.5 m (5')		700 (1550)	600 (1300)	850 (1850)	650 (1450)	1550 (3600)	1400 (3100)	*3900 (8600)	2600 (5700)
0 m (0')		750 (1650)	650 (1450)			1400 (3100)	1300 (2850)	*3750 (8250)	2400 (5300)
-1.5 m (-5')		850 (1850)	750 (1650)			1650 (3650)	1500 (3300)	*3500 (7700)	2400 (5300)
-3.0 m (-10')		1100 (2400)	1000 (2200)					*3200 (7050)	2500 (5500)
Arm length 2000 mm (6'7") With blade and outrigger above ground									
4.5 m (15')		950 (2100)	850 (1850)	1000 (2200)	900 (2000)	2000 (4400)	1800 (3950)		
3.0 m (10')		850 (1850)	650 (1450)	900 (2000)	800 (1750)	1700 (3750)	1550 (3400)		
1.5 m (5')		750 (1650)	550 (1200)	800 (1750)	700 (1550)	1450 (3200)	1300 (2850)	*3800 (8350)	2500 (5500)
0 m (0')		700 (1550)	600 (1300)	800 (1750)	700 (1550)	1300 (2850)	1250 (2750)	*3600 (7900)	2250 (4950)
-1.5 m (-5')		800 (1750)	700 (1550)			1550 (3400)	1400 (3100)	*3400 (7500)	2200 (4850)
-3.0 m (-10')		1050 (2300)	950 (2100)			1650 (3650)	1500 (3300)	*3100 (6800)	2250 (4950)
Arm length 2300 mm (7'7") With blade and outrigger above ground									
4.5 m (15')		900 (2000)	800 (1750)	950 (2100)	850 (1850)	1900 (4200)	1750 (3850)		
3.0 m (10')		700 (1550)	600 (1300)	850 (1850)	750 (1650)	1650 (3650)	1500 (3300)		
1.5 m (5')		600 (1300)	500 (1100)	750 (1650)	650 (1450)	1350 (2950)	1200 (2650)	*3750 (8250)	2400 (5300)
0 m (0')		650 (1450)	550 (1200)	750 (1650)	600 (1300)	1250 (2750)	1100 (2400)	*3500 (7700)	2100 (4600)
-1.5 m (-5')		750 (1650)	650 (1450)			1450 (3200)	1300 (2850)	*3300 (7250)	2000 (4400)
-3.0 m (-10')		1000 (2200)	900 (2000)			1550 (3400)	1400 (3100)	*3000 (6600)	2050 (4500)

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW110R-1 (One piece boom)

Conditions:

Bucket (SAE): 0.32 m³ (0.42 cu.yd), Tires: 9.00-20

unit:kg(lb)

B	A	MAX		6.0 m (20')		4.5 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1850 mm (6'1") With blade and outrigger on ground									
4.5 m (15')		1100 (2400)	1000 (2200)			*2400 (5300)	2000 (4400)		
3.0 m (10')		900 (2000)	800 (1750)	*1400 (3100)	800 (1750)	*2300 (5050)	1800 (3950)		
1.5 m (5')		800 (1750)	700 (1550)	*1200 (2650)	750 (1650)	*2250 (4950)	1500 (3300)	*3900 (8600)	*3900 (8600)
0 m (0')		850 (1850)	750 (1650)			*2100 (4600)	1400 (3100)	*3750 (8250)	*3750 (8250)
-1.5 m (-5')		950 (2100)	850 (1850)			*2200 (4850)	1600 (3500)	*3500 (7700)	*3500 (7700)
-3.0 m (-10')		1200 (2650)	1100 (2400)					*3200 (7050)	*3200 (7050)
Arm length 2000 mm (6'7") With blade and outrigger on ground									
4.5 m (15')		1050 (2300)	950 (2100)	*1500 (3300)	1000 (2200)	*2300 (5050)	1900 (4200)		
3.0 m (10')		850 (1850)	750 (1650)	*1250 (2750)	900 (2000)	*2200 (4850)	1900 (4200)		
1.5 m (5')		750 (1650)	650 (1450)	*1100 (2400)	800 (1750)	*2100 (4600)	1400 (3100)	*3800 (8350)	*3800 (8350)
0 m (0')		800 (1750)	700 (1550)	*1000 (2200)	850 (1850)	*2000 (4400)	1350 (2950)	*3600 (7900)	*3600 (7900)
-1.5 m (-5')		900 (2000)	800 (1750)			*2100 (4600)	1500 (3300)	*3400 (7500)	*3400 (7500)
-3.0 m (-10')		1100 (2400)	1000 (2200)			*2250 (4950)	1600 (3500)	*3100 (6800)	*3100 (6800)
Arm length 2300 mm (7'7") With blade and outrigger on ground									
4.5 m (15')		1000 (2200)	900 (2000)	*1400 (3100)	950 (2100)	*2200 (4850)	1850 (4050)		
3.0 m (10')		800 (1750)	700 (1550)	*1100 (2400)	850 (1850)	*2100 (4600)	1600 (3500)		
1.5 m (5')		700 (1550)	600 (1300)	*1000 (2200)	750 (1650)	*2000 (4400)	1300 (2850)	*3750 (8250)	*3750 (8250)
0 m (0')		750 (1650)	650 (1450)	*950 (2100)	700 (1550)	*1900 (4200)	1200 (2650)	*3500 (7700)	*3500 (7700)
-1.5 m (-5')		850 (1850)	750 (1650)			*2000 (4400)	1400 (3100)	*3300 (7250)	*3300 (7250)
-3.0 m (-10')		1100 (2400)	1000 (2200)			*2150 (4750)	1500 (3300)	*3000 (6600)	*3000 (6600)

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW110R-1 (Two piece boom)

Conditions:

Bucket (SAE): 0.32 m³ (0.42 cu.yd), Tires: 9.00-20

unit: kg (lb)

B	A	MAX		6.0 m (20')		4.5 m (15')		3.0 m (10')	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 1850 mm (6'1") With blade and outrigger above ground									
4.5 m (15')	900 (2000)	800 (1750)	900 (2000)	800 (1750)	2200 (4850)	2000 (4400)			
3.0 m (10')	750 (1650)	650 (1450)	*800 (1750)	700 (1550)	2000 (4400)	1800 (3950)			
1.5 m (5')	550 (1200)	450 (1000)	*750 (1650)	650 (1450)	1700 (3750)	1500 (3300)			
0 m (0')	550 (1200)	450 (1000)	700 (1550)	600 (1300)	1500 (3300)	1400 (3100)			
-1.5 m (-5')	700 (2550)	550 (1200)	850 (1850)	750 (1650)	1700 (3750)	1600 (3500)	*3600 (7900)	*3600 (7900)	
-3.0 m (-10')	900 (2000)	800 (1750)			1850 (4050)	1700 (3750)	*3300 (7250)	*3300 (7250)	
Arm length 2000 mm (6'7") With blade and outrigger above ground									
4.5 m (15')	850 (1850)	750 (1650)	900 (2000)	800 (1750)	2100 (4600)	1900 (4200)			
3.0 m (10')	700 (1550)	600 (1300)	800 (1750)	700 (1550)	1800 (3950)	1650 (3650)			
1.5 m (5')	500 (1100)	400 (900)	750 (1650)	650 (1450)	1600 (3500)	1400 (3100)			
0 m (0')	550 (1200)	400 (900)	700 (1550)	600 (1300)	1400 (3100)	1350 (2950)			
-1.5 m (-5')	550 (1200)	450 (1000)	750 (1650)	700 (1550)	1700 (3750)	1500 (3300)	*3500 (7700)	*3500 (7700)	
-3.0 m (-10')	850 (1850)	750 (1650)			1750 (3850)	1600 (3500)	*3200 (7050)	*3200 (7050)	
Arm length 1850 mm (6'1") With blade and outrigger on ground									
4.5 m (15')	1000 (2200)	900 (2000)	*1750 (3850)	900 (2000)	*2500 (5500)	2100 (4600)			
3.0 m (10')	850 (1850)	750 (1650)	*1500 (3300)	800 (1750)	*2400 (5300)	1900 (4200)			
1.5 m (5')	650 (1450)	550 (1200)	*1300 (2850)	750 (1650)	*2350 (5150)	1600 (3500)			
0 m (0')	700 (1550)	550 (1200)	*1200 (2650)	700 (1550)	*2200 (4850)	1500 (3300)			
-1.5 m (-5')	750 (1650)	650 (1450)	*1250 (2750)	850 (1850)	*2300 (5050)	1700 (3750)	*3600 (7900)	*3600 (7900)	
-3.0 m (-10')	1000 (2200)	900 (2000)			*2500 (5500)	1750 (3850)	*3300 (7250)	*3300 (7250)	
Arm length 2000 mm (6'7") With blade and outrigger on ground									
4.5 m (15')	950 (2100)	850 (1850)	*1000 (3500)	900 (2000)	*2400 (5300)	2000 (4400)			
3.0 m (10')	800 (1750)	700 (1550)	*1400 (3100)	800 (1750)	*2300 (5050)	1750 (3850)			
1.5 m (5')	600 (1300)	500 (1100)	*1200 (2650)	750 (1650)	*2200 (4850)	1500 (3300)			
0 m (0')	650 (1450)	550 (1200)	*1100 (2400)	700 (1550)	*2100 (4600)	1450 (3200)			
-1.5 m (-5')	700 (1550)	550 (1200)	1150 (2550)	800 (1850)	*2200 (4850)	1600 (3500)	*3500 (7700)	*3500 (7700)	
-3.0 m (-10')	950 (2100)	850 (1850)			*2300 (5050)	1700 (3750)	*3200 (7050)	*3200 (7050)	

* Load is limited by hydraulic capacity rather than tipping.

Ratings are based on ISO Standard NO. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW140-7 (One piece boom)

Conditions:

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2100 mm Without stabilizer											
7.5 m											
6.0 m		*2350	2150								
4.5 m		2100	1550			2400	1800	4000	3050		
3.0 m		1800	1300			2300	1700	3150	2750	7550	5450
1.5 m		1700	1200			2200	1600	3500	2500	*7750	4300
0.0 m		1750	1250			2100	1500	3300	2150	*7250	4050
-1.5 m		2000	1450			2100	1500	3250	2350	*6250	3950
-3.0 m		2800	2050					3350	2400	*5650	4600
Arm length 2100 mm With rear outrigger											
7.5 m											
6.0 m		*2350	*2350								
4.5 m		*2200	*2200			*3800	2550	*4550	4250		
3.0 m		*2250	1900			*4150	2450	*5150	4000	*8000	*8000
1.5 m		*2400	1800			*4450	2350	*6050	3750	*7750	*7750
0.0 m		*2900	1900			*4450	2250	*6150	3550	*7250	*7250
-1.5 m		*3550	2150			*3800	2250	*5600	3500	*6250	*6250
-3.0 m		*3100	3000					*3850	3550	*5650	*5650
Arm length 2100 mm With rear blade											
7.5 m											
6.0 m		*2350	*2350								
4.5 m		*2200	1750			*3800	2000	*4550	3400		
3.0 m		*2250	1500			*4150	1900	*5150	3150	*8000	6100
1.5 m		*2450	1400			*4450	1800	*6050	2900	*7750	5250
0.0 m		*2900	1450			*4450	1750	*6150	2700	*7250	5000
-1.5 m		*3550	1650			*3800	1700	*5600	2650	*6250	5000
-3.0 m		*3100	2300					*3850	2750	*5650	5250
Arm length 2100 mm With front outrigger + rear blade											
7.5 m											
6.0 m		*2350	*2350								
4.5 m		*2200	*2200			*3800	3050	*4550	*4550		
3.0 m		*2250	*2250			*4150	2950	*5150	4800	*8000	*8000
1.5 m		*2450	2200			*4450	2850	*6050	4500	*7750	*7750
0.0 m		*2900	2300			*4450	2750	*6150	4300	*7250	*7250
-1.5 m		*3450	2650			*3800	2750	*5600	4250	*6250	*6250
-3.0 m		*3100	*3100					*3850	*3850	*5650	*5650

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW140-7 (Two piece boom)

Conditions:

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2100 mm Without stabilizer											
7.5 m		*2850	*2850								
6.0 m		*2350	1800					4100	3150		
4.5 m		1850	1350			2350	1750	3800	3000		
3.0 m		1600	1150			2250	1650	3700	2750		
1.5 m		1500	1050			2150	1550	3400	2450		
0.0 m		1550	1100			2050	1450	3200	2300	*6250	4300
-1.5 m		1800	1250			2050	1450	3200	2250	*6150	3950
-3.0 m											
Arm length 2100 mm With rear outrigger											
7.5 m		*2850	*2850								
6.0 m		*2350	*2350					*4250	*4250		
4.5 m		*2200	1950			*3850	2500	*4650	3950		
3.0 m		*2250	1700			*4150	2450	*5400	3900		
1.5 m		*2400	1600			*4400	2250	*6050	3600		
0.0 m		*2700	1700			*4350	2200	*6050	3450	*6250	*6250
-1.5 m		*3050	1900			*3750	2200	*5400	3400	*6150	*6150
-3.0 m											
Arm length 2100 mm With rear blade											
7.5 m		*2850	*2850								
6.0 m		*2350	2000					*4250	3450		
4.5 m		*2250	1500			*3850	1950	*4650	3200		
3.0 m		*2250	1300			*4150	1900	*5400	3050		
1.5 m		*2400	1200			*4400	1750	*6050	2750		
0.0 m		*2700	1250			*4350	1650	*6050	2600	*6250	4950
-1.5 m		*3050	1450			*3750	1650	*5400	2550	*6150	4950
-3.0 m											
Arm length 2100 mm With front outrigger + rear blade											
7.5 m		*2850	*2850								
6.0 m		*2350	*2350					*4250	*4250		
4.5 m		*2200	*2200			*3850	3000	*4650	*4650		
3.0 m		*2250	*2100			*4150	2900	*5400	4700		
1.5 m		*2400	2000			*4400	2750	*6050	4400		
0.0 m		*2700	2050			*4350	2700	*6050	4200	*6250	*6250
-1.5 m		*3050	2350			*3750	2700	*5400	4150	*6150	*6150
-3.0 m											

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW140-7 (One piece boom)

Conditions:

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2500 mm Without stabilizer											
7.5 m											
6.0 m	*1900	1850									
4.5 m	*1800	1400			2400	1800					
3.0 m	1600	1150			2350	1750	3850	2850	*7250	5700	
1.5 m	1550	1100			2200	1600	3550	2550	*8300	4400	
0.0 m	1550	1100			2100	1500	3300	2200	*7250	4050	
-1.5 m	1800	1250			2050	1450	3250	2300	*6200	3950	
-3.0 m	2400	1700					3250	2350	6500	4500	
Arm length 2500mm With rear outrigger											
7.5 m											
6.0 m	*1900	*1900									
4.5 m	*1800	*1800			*3700	2600					
3.0 m	*1850	1750			*3950	2500	*4850	4050	*7250	*7250	
1.5 m	*2000	1650			*4350	2350	*5850	3750	*8300	*8300	
0.0 m	*2300	1700			*4450	2250	6100	3550	*7250	*7250	
-1.5 m	*2950	1900			*4050	2200	*5850	3450	*6200	*6200	
-3.0 m	*3100	2550					*4500	3500	*6500	*6500	
Arm length 2500 mm With rear blade											
7.5 m											
6.0 m	*2350	*2350									
4.5 m	*2200	1750			*3800	2000	*4550	3400			
3.0 m	*2250	1500			*4150	1900	*5150	3150	*8000	6100	
1.5 m	*2450	1400			*4450	1800	*6050	2900	*7750	5250	
0.0 m	*2900	1450			*4450	1750	*6150	2700	*7250	5000	
-1.5 m	*3550	1650			*3800	1700	*5600	2650	*6250	5000	
-3.0 m	*3100	2300					*3850	2750	*5650	5250	
Arm length 2500 mm With front outrigger + rear blade											
7.5 m											
6.0 m	*1900	*1900									
4.5 m	*1800	*1800			*3700	3100					
3.0 m	*1850	*1850			*3950	3000	*4850	4850	*7250	*7250	
1.5 m	*2000	*2000			*4350	2850	*5850	4550	*8300	*8300	
0.0 m	*2300	2100			*4450	2750	*6100	4300	*7250	*7250	
-1.5 m	*2950	2350			*4050	2700	*5850	4250	*6200	*6200	
-3.0 m	*3100	3100					*4500	4250	*6500	*6500	

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW140-7 (Two piece boom)

Conditions:

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2500 mm Without stabilizer											
7.5 m		*2250	*2250					*3500	3150		
6.0 m		*1900	1550			2450	1800				
4.5 m		1650	1200			2400	1800	3950	3050		
3.0 m		1450	1000	1500	1050	2300	1700	3750	2800	7600	5450
1.5 m		1350	950	1450	1000	2150	1550	3450	2500		
0.0 m		1400	950	1400	1000	2050	1450	3200	2300	*6650	3900
-1.5 m		1600	1100			2000	1400	3150	2250	*6050	4300
-3.0 m								3200	2300		
Arm length 2500 mm Rear outrigger											
7.5 m		*2250	*2250					*3500	*3500		
6.0 m		*1900	*1900			*3100	2600				
4.5 m		*1850	1750			*3700	2500	*4350	4050		
3.0 m		*1800	1550	*2550	1600	*4000	2450	5150	3950	*7800	*7800
1.5 m		*1950	1500	*3300	1550	*4300	2300	*5900	3650		
0.0 m		*2150	1500	*2450	1550	*4350	2200	*6100	3450	*6650	*6650
-1.5 m		*2650	1700			*3950	2150	*5600	3400	*6050	*6050
-3.0 m								*4300	3450		
Arm length 2500 mm With rear blade											
7.5 m		*2250	*2250					*3500	3450		
6.0 m		*1900	1750			*3100	2050				
4.5 m		*1800	1350			*3700	1950	*4350	3200		
3.0 m		*1800	1150	*2550	1200	*4000	1900	*5150	3100	*7800	6100
1.5 m		*1950	1100	*3300	1150	*4300	1750	*5900	2800		
0.0 m		*2150	1150	*2450	1150	*4350	1650	*6100	2600	*6650	4900
-1.5 m		*2650	1300			*3950	1650	*5600	2550	*6050	4900
-3.0 m								*4300	2600		
Arm length 2500 mm With front outrigger + rear blade											
7.5 m		*2250	*2250					*3500	*3500		
6.0 m		*1900	*1900			*3100	3100				
4.5 m		*1800	*1800			*3700	3000	*4350	*4350		
3.0 m		*1800	*1800	*2550	1950	*4000	2950	*5150	4700	*7800	*7800
1.5 m		*1950	1800	*3300	1900	*4300	2800	*5900	4450		
0.0 m		*2150	1850	*2450	1900	*4350	2700	*6100	4250	*6650	*5350
-1.5 m		*2650	2100			*3950	2650	*5600	4150	*6050	*6050
-3.0 m								*4300	4200		

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW140-7 (One piece boom)

Conditions:

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3000 mm Without stabilizer											
7.5 m											
6.0 m	*1600	1500			2450	1850					
4.5 m	*1550	1150			2450	1850					
3.0 m	1400	1000	1500	1050	2350	1700	3850	2850			
1.5 m	1300	900	1450	1000	2200	1600	3550	2550	7050	4550	
0.0 m	1350	900	1400	950	2050	1450	3200	1650	*7500	4050	
-1.5 m	1500	1050			2000	1400	3000	2200	5650	3850	
-3.0 m	1900	1350			2000	1400	3150	2200	6300	4350	
Arm length 3000 mm With rear outrigger											
7.5 m											
6.0 m	*1600	*1600			*2700	2600					
4.5 m	*1550	*1550			*3350	2650					
3.0 m	*1550	1500	*2400	1600	*3650	2500	*4400	4100			
1.5 m	*1650	1400	*2950	1550	*4150	2350	*5500	3800	*9550	6850	
0.0 m	*1900	1450	*2650	1500	*4350	2200	*5950	3500	*7500	*7500	
-1.5 m	*2350	1600			*4200	2150	*5800	3350	*5850	*5850	
-3.0 m	*2900	2050			*3200	2150	*4950	3350	*6600	*6600	
Arm length 3000 mm With rear blade											
7.5 m											
6.0 m	*1600	*1600			*2700	2050					
4.5 m	*1550	1300			*3350	2050					
3.0 m	*1550	1150	*2400	1200	*3650	1950	*4400	3250			
1.5 m	*1650	1050	*2950	1150	*4150	1800	*5500	2950	*9550	5100	
0.0 m	*1900	1100	*2650	1100	*4350	1650	*5950	2650	*7500	4650	
-1.5 m	*2350	1200			*4200	1600	*5800	2550	*5850	4400	
-3.0 m	*2900	1550			*3200	1600	*4950	2550	*6600	4950	
Arm length 3000 mm With front outrigger + rear blade											
7.5 m											
6.0 m	*1600	*1600			*2700	*2700					
4.5 m	*1550	*1550			*3350	3100					
3.0 m	*1550	*1550	*2400	1950	*3650	3000	*4400	*4400			
1.5 m	*1650	*1650	*2950	1900	*4150	2850	*5500	4550	*9550	*9550	
0.0 m	*1900	1800	*2650	1850	*4350	2700	*5950	4300	*7500	*7500	
-1.5 m	*2350	2000			*4200	2600	*5800	4150	*5850	*5850	
-3.0 m	*2900	2550			*3200	2650	*4950	4150	*6600	*6600	

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW140-7 (Two piece boom)

Conditions:

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 3000 mm Without stabilizer											
7.5 m		*1900	*1900								
6.0 m		*1650	1250			2450	1850				
4.5 m		1400	1000	1500	1100	2400	1800	*3500	3100		
3.0 m		1250	850	1500	1050	2300	1700	3800	2850	*6800	5700
1.5 m		1150	800	1400	950	2150	1550	3450	2500		
0.0 m		1200	800	1300	900	2000	1400	3200	2250	*6800	4250
-1.5 m		1350	900	1350	900	1950	1350	3050	2150	*5550	4150
-3.0 m		1650	1150			1950	1350	3050	2150	6200	4250
Arm length 3000 mm With rear outrigger											
7.5 m		*1900	*1900								
6.0 m		*1650	*1650			*3150	2650				
4.5 m		*1550	1500	*2400	1650	*3400	2550	*3500	*3500		
3.0 m		*1550	1350	*3150	1600	*3750	2450	*4700	4000	*6800	*6800
1.5 m		*1650	1250	3250	1550	*4100	2250	*5550	3650		
0.0 m		*1800	1300	3200	1450	*4300	2100	*6000	3300	*6800	*6800
-1.5 m		*2150	1450	*2500	1450	*4050	2100	*5750	3200	*5500	*5500
-3.0 m		*2350	1800			*3200	2100	*4750	3200	*6350	*6350
Arm length 3000 mm With rear blade											
7.5 m		*1900	*1900								
6.0 m		*1650	1450			*3150	2050				
4.5 m		*1550	1150	*2400	1250	*3400	1950	*3500	3400		
3.0 m		*1550	1000	*3150	1200	*3750	1900	*4700	3100	*6800	6350
1.5 m		*1650	900	*3250	1150	*4100	1700	*5550	2750		
0.0 m		*1800	950	*3200	1100	*4300	1650	*6000	2450	*6800	4850
-1.5 m		*2150	1050	*2500	1050	*4050	1550	*5750	2350	*5550	4750
-3.0 m		*2350	1350			*3200	1550	*4750	2350	*6350	4850
Arm length 3000 mm With front outrigger + rear blade											
7.5 m		*1900	*1900								
6.0 m		*1650	*1650			*3150	3150				
4.5 m		*1550	*1550	*2400	2000	*3400	3050	*3500	*3500		
3.0 m		*1550	*1550	*3150	1950	*3750	2950	*4700	*4700	*6800	*6800
1.5 m		*1650	1600	*3250	1900	*4100	2750	*5500	4400		
0.0 m		*1800	1600	*3200	1850	*4300	2600	*6000	4100	*6800	*6800
-1.5 m		*2150	1800	*2500	1800	*4050	2600	*5750	3950	*5550	*5550
-3.0 m		*2350	2200			*3200	2600	*4750	4000	*6350	*6350

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard NO. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW160-7 (One piece boom)

Conditions: Boom: 5300 mm, Bucket (SAE): 0.62 m³, Tires:10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 2100 mm											
7.5 m		*2450	*2450								
6.0 m		*2100	*1800			3150	2200				
4.5 m		*1950	1450			3100	2150	5050	3500		
3.0 m		1900	1250	2050	1350	2950	2050	4700	3200		
1.5 m		1850	1200	2000	1300	2850	1900	4350	2900		
0.0 m		1900	1250	1950	1250	2750	1800	4200	2750		
-1.5 m		2100	1400			2700	1750	4150	2700	*6900	5000
-3.0 m		2700	1800			2750	1850	4200	2750	*6550	5150
Without stabilizer Arm length 2500 mm											
7.5 m		*1800	*1800								
6.0 m		*1600	*1600			3150	2200				
4.5 m		*1550	1350	*2000	1400	3100	2150				
3.0 m		*1600	1150	2050	1350	3000	2050	4750	3250	9500	6050
1.5 m		*1700	1100	1950	1300	2850	1900	4450	2950		
0.0 m		1750	1150	1900	1250	2750	1800	4250	2750	*4400	*4400
-1.5 m		1950	1250			2700	1750	4150	2700	*7100	5050
-3.0 m		2400	1600			2700	1800	4200	2750	*7550	5150
Without stabilizer Arm length 3000 mm											
7.5 m		*1450	*1450			*2350	2150				
6.0 m		*1300	*1300	*1450	1350	*2900	2200				
4.5 m		*1200	1100	2050	1350	3100	2150				
3.0 m		*1200	950	2000	1300	2950	2000	4800	3300		
1.5 m		*1300	900	1900	1250	2800	1850	4400	2900		
0.0 m		*1450	900	1850	1200	2650	1750	4150	2700	*4050	*4050
-1.5 m		1650	1000	1800	1150	2600	1650	4050	2600	*5950	4800
-3.0 m		1950	1250			2600	1650	4050	2600	8100	4900

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on ISO Standard No.10567.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW160-7 (One piece boom)

Conditions: Boom: 5300 mm, Bucket (SAE): 0.62 m³, Tires:10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Rear blade on ground		Arm length 2100 mm									
7.5 m		*2450	*2450								
6.0 m		*2100	*2100			*3750	2600				
4.5 m		*1950	1750			*4700	2550	*5250	4150		
3.0 m		*1950	1550	*3350	1650	*5100	2450	*6700	3800		
1.5 m		*2050	1500	4000	1600	*5400	2300	*7500	3500		
0.0 m		*2300	1500	*3450	1550	*5400	2200	*7450	3350		
-1.5 m		*2750	1700			*4850	2200	*6650	3300	*6900	6250
-3.0 m		*2900	2200			*3200	2250	*5050	3350	*6550	6400
Rear blade on ground		Arm length 2500 mm									
7.5 m		*1800	*1800								
6.0 m		*1600	*1600			*3200	2600				
4.5 m		*1550	*1550	*2000	1700	*4100	2550				
3.0 m		*1600	1450	*3300	1650	*4900	2450	*6400	3900	*10,050	7350
1.5 m		*1700	1400	4000	1600	*5300	2300	*7350	3600		
0.0 m		*1950	1400	3950	1550	*5400	2200	*7550	3400	*4400	*4400
-1.5 m		*2400	1600			*5050	2150	*6950	3300	*7100	6250
-3.0 m		*3150	1950			*3850	2200	*5550	3350	*7550	6400
Rear blade on ground		Arm length 3000 mm									
7.5 m		*1450	*1450			*2350	*2350				
6.0 m		*1300	*1300	*1450	*1450	*2900	2650				
4.5 m		*1200	*1200	*2700	1650	*3250	2550				
3.0 m		*1200	1200	*3350	1600	*4350	2450	*5450	3900		
1.5 m		*1300	1150	3950	1550	*5050	2250	*6900	3500		
0.0 m		*1450	1200	3850	1500	*5300	2150	*7400	3300	*4050	*4050
-1.5 m		*1700	1300	*3700	1450	*5100	2050	*7100	3200	*5950	*5950
-3.0 m		*2200	1600			*4250	2050	*6000	3200	*8550	6150

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No.J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW160-7 (One piece boom)

Conditions: Boom: 5300 mm, Bucket (SAE): 0.62 m³, Tires:10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Front outrigger and rear blade on ground Arm length 2100 mm											
7.5 m		*2450	*2450								
6.0 m		*2100	*2100			*3750	*3750				
4.5 m		*1950	*1950			*4700	3800	*5250	*5250		
3.0 m		*1950	*1950	*3350	2550	*5100	3700	*6700	5800		
1.5 m		*2050	*2050	*4150	2500	*5400	3550	*7500	5500		
0.0 m		*2300	*2300	*3450	2450	*5400	3450	*7450	5300		
-1.5 m		*2750	2700			*4850	3400	*6650	5250	*6900	*6900
-3.0 m		*2900	*2900			*3200	*3200	*5050	*5050	*6550	*6550
Front outrigger and rear blade on ground Arm length 2500 mm											
7.5 m		*1800	*1800								
6.0 m		*1600	*1600			*3200	*3200				
4.5 m		*1550	*1550	*2000	*2000	*4100	3850				
3.0 m		*1600	*1600	*3300	2550	*4900	3700	*6400	5900	*10050	*10050
1.5 m		*1700	*1700	*4150	2500	*5300	3550	*7350	5550		
0.0 m		*1950	*1950	*4050	2450	*5400	3450	*7550	5350	*4400	*4400
-1.5 m		*2400	*2400			*5050	3400	*6950	5250	*7100	*7100
-3.0 m		*3150	3050			*3850	3400	*5550	5300	*7550	*7550
Front outrigger and rear blade on ground Arm length 3000 mm											
7.5 m		*1450	*1450			*2350	*2350				
6.0 m		*1300	*1300	*1450	*1450	*2900	*2900				
4.5 m		*1200	*1200	*2700	2600	*3250	*3250				
3.0 m		*1200	*1200	*3350	2500	*4350	3700	*5450	*5450		
1.5 m		*1300	*1300	*4050	2450	*5050	3500	*6900	5500		
0.0 m		*1450	*1450	*4050	2350	*5300	3350	*7400	5250	*4050	*4050
-1.5 m		*1700	*1700	*3700	2350	*5100	3300	*7100	5150	*5950	*5950
-3.0 m		*2200	*2200			*4250	3300	*6000	5150	*8550	*8550

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No.J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW160-7 (One piece boom)

Conditions: Boom: 5300 mm, Bucket (SAE): 0.62 m³, Tires:10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Front/rear outrigger Arm length 2100 mm											
7.5 m		*2450	*2450								
6.0 m		*2100	*2100			*3750	*3750				
4.5 m		*1950	*1950			*4700	4550	*5250	*5250		
3.0 m		*1950	*1950	*3350	3050	*5100	4400	*6700	*6700		
1.5 m		*2050	*2050	*4150	3000	*5400	4250	*7500	6700		
0.0 m		*2300	*2300	*3450	2950	*5400	4150	*7450	6500		
-1.5 m		*2750	*2750			*4850	4100	*6650	6450	*6900	*6900
-3.0 m		*2900	*2900			*3200	*3200	*5050	*5050	*6550	*6550
Front/rear outrigger on ground Arm length 2500 mm											
7.5 m		*1800	*1800								
6.0 m		*1600	*1600			*3200	*3200				
4.5 m		*1550	*1550	*2000	*2000	*4100	*4100				
3.0 m		*1600	*1600	*3300	*3050	*4900	4400	*6400	*6400	*10050	*10050
1.5 m		*1700	*1700	*4150	3000	*5300	4250	*7350	6750		
0.0 m		*1950	*1950	*4050	2950	*5400	4150	*7550	6550	*4400	*4400
-1.5 m		*2400	*2400			*5050	4100	*6950	6450	*7100	*7100
-3.0 m		*3150	*3150			*3850	*3850	*5550	*5550	*7550	*7550
Front/rear outrigger on ground Arm length 3000 mm											
7.5 m		*1450	*1450			*2350	*2350				
6.0 m		*1300	*1300	*1450	*1450	*2900	*2900				
4.5 m		*1200	*1200	*2700	*2700	*3250	*3250				
3.0 m		*1200	*1200	*3350	3050	*4350	*4350	*5450	*5450		
1.5 m		*1300	*1300	*4050	2950	*5050	4250	*6900	6700		
0.0 m		*1450	*1450	*4050	2850	*5300	4100	*7400	6450	*4050	*4050
-1.5 m		*1700	*1700	*3700	2850	*5100	4000	*7100	6350	*5950	*5950
-3.0 m		*2200	*2200			*4250	4000	*6000	*6000	*8550	*8550

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No.J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW160-7 (Two piece boom)

Conditions: Boom: 5223 mm, Bucket (SAE): 0.62 m³, Tires:10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 2100 mm											
7.5 m		*2300	*2300					*3650	*3650		
6.0 m		*1900	*1900			*3050	2050	*4200	3550		
4.5 m		*1800	1400			3000	2050	4950	3400	*5000	*5000
3.0 m		*1800	1250	1950	1250	2900	1950	4700	3150		
1.5 m		1850	1150	1900	1200	2800	1850	4400	2900		
0.0 m		1900	1200			2700	1750	4250	2750		
-1.5 m		2150	1400			2650	1750	4200	2700	*7400	5100
-3.0 m								4250	2750		
Without stabilizer Arm length 2500 mm											
7.5 m		*1750	*1750					*3350	*3350		
6.0 m		*1500	*1500			3050	2100	*3450	*3450		
4.5 m		*1400	1200	*1750	1250	3000	2050	*4000	3450	*3500	*3500
3.0 m		*1400	1050	1950	1250	2900	1950	4700	3150		
1.5 m		*1500	1000	1850	1200	2750	1800	4350	2850		
0.0 m		*1650	1050	1800	1150	2650	1700	4150	2650	*4050	*4050
-1.5 m		1900	1200			2600	1650	4100	2600	*6900	4950
-3.0 m						2650	1700	4150	2650		
Without stabilizer Arm length 3000 mm											
7.5 m		*1400	*1400			*2050	*2050	*2850	*2850		
6.0 m		*1200	*1200			*2800	2150	*2700	*2700		
4.5 m		*1100	1050	2000	1300	3050	2100	*2950	*2950		
3.0 m		*1100	950	1950	1250	2950	1950	4800	3250		
1.5 m		*1150	900	1900	1200	2800	1800	4450	2900		
0.0 m		*1300	900	1800	1150	2650	1700	4200	2700	*4250	*4250
-1.5 m		*1550	1000	1800	1100	2550	1650	4050	2550	*6250	4950
-3.0 m		2000	1250			2600	1650	4050	2600	8250	4950

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No.J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW160-7 (Two piece boom)

Conditions: Boom: 5223 mm, Bucket (SAE): 0.62 m³, Tires:10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Rear blade on ground		Arm length 2100 mm									
7.5 m		*2300	*2300					*3350	*3350		
6.0 m		*1500	*1500			*3150	2300	*4200	3900		
4.5 m		*1800	1600			*4550	2300	*5100	3750	*5000	*5000
3.0 m		*1800	1400	*2400	1450	*5300	2200	*6900	3500		
1.5 m		*1900	1350	*3250	1400	*5700	2050	*7900	3200		
0.0 m		*2100	1400			*5800	2000	*8050	3050		
-1.5 m		*2600	1550			*5300	1950	*7400	3050	*7400	*5750
-3.0 m								*5700	3100		
Rear blade on ground		Arm length 2500 mm									
7.5 m		*1750	*1750					*3350	*3350		
6.0 m		*1500	*1500			*3150	2300	*3450	*3450	*3500	*3500
4.5 m		*1400	1400	*1750	1450	*3850	2250	*4000	3750		
3.0 m		*1400	1200	*3150	1400	*5000	2150	*6450	3500		
1.5 m		*1500	1150	*3900	1350	*5500	2000	*7550	3200		
0.0 m		*1650	1200	*3850	1300	*5700	1900	*8000	3000	*4050	*4050
-1.5 m		*2000	1350			*5400	1850	*7550	2900	*6900	5500
-3.0 m						*4150	1900	*6150	2950		
Rear blade on ground		Arm length 3000 mm									
7.5 m		*1400	*1400			*2050	*2050	*2850	*2850		
6.0 m		*1200	*1200			*2800	2400	*2700	*2700		
4.5 m		*1100	*1100	*2500	1450	*3150	2300	*2950	*2950		
3.0 m		*1100	1050	*3150	1450	*4150	2200	*5050	3600		
1.5 m		*1150	1000	*3900	1350	*5300	2050	*7200	3250		
0.0 m		*1300	1050	*4350	1300	*5650	1900	*7900	3000	*4250	*4250
-1.5 m		*1550	1150	*3700	1250	*5550	1850	*7750	2900	*6250	5500
-3.0 m		*2050	1450			*4700	1850	*6750	2900	*9800	5600

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No.J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW160-7 (Two piece boom)

Conditions: Boom: 5223 mm, Bucket (SAE): 0.62 m³, Tires:10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Front outrigger and rear blade on ground Arm length 2100 mm											
7.5 m		*2300	*2300					*3650	*3650		
6.0 m		*1900	*1900			*3250	*3250	*4200	*4200		
4.5 m		*1800	*1800			*4550	3750	*5100	5100	*5000	*5000
3.0 m		*1800	*1800	*2400	*2400	*5300	3650	*6900	5800		
1.5 m		*1900	*1900	*3250	2450	*5700	3500	*7900	5500		
0.0 m		*2100	*2100			*5800	3400	*8050	5350		
-1.5 m		*2600	*2600			*5300	3400	*7400	5300	*7400	*7400
-3.0 m								*5700	5350		
Front outrigger and rear blade on ground Arm length 2500 mm											
7.5 m		*1750	*1750					*3350	*3350		
6.0 m		*1500	*1500			*3150	*3150	*3450	*3450		
4.5 m		*1400	*1400	*1750	*1750	*3850	3750	*4000	4000	*3500	*3500
3.0 m		*1400	*1400	*3150	2450	*5000	3600	*6450	5850		
1.5 m		*1500	*1500	*3900	2400	*5500	3450	*7550	5500		
0.0 m		*1650	*1300	*3850	2350	*5700	3350	*8000	5250	*4050	*4050
-1.5 m		*2000	*2000			*5400	3300	*7550	5200	*6900	*6900
-3.0 m						*4150	3350	*6150	5250		
Front outrigger and rear blade on ground Arm length 3000 mm											
7.5 m		*1400	*1400			*2050	*2050	*2850	*2850		
6.0 m		*1200	*1200			*2800	*2800	*2700	*2700		
4.5 m		*1100	*1100	*2500	*2500	*3150	*3150	*2950	*2950		
3.0 m		*1100	*1100	*3150	2500	*4150	3650	*5050	*5050		
1.5 m		*1150	*1150	*3900	2400	*5300	3500	*7200	5550		
0.0 m		*1300	*1300	*4350	2350	*5650	3350	*7900	5300	*4250	*4250
-1.5 m		*1550	*1550	*3700	2300	*5550	3300	*7750	5150	*6250	*6250
-3.0 m		*2050	*2050			*4700	3300	*6750	5200	*9800	*9800

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No.J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW160-7 (Two piece boom)

Conditions: Boom: 5223 mm, Bucket (SAE): 0.62 m³, Tires:10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Front/rear outrigger on ground Arm length 2100 mm											
7.5 m		*2300	*2300					*3650	*3650		
6.0 m		*1900	*1900			*3250	*3250	*4200	*4200		
4.5 m		*1800	*1800			*4550	4500	*5100	*5100	*5000	*5000
3.0 m		*1800	*1800	*2400	*2400	*5300	4350	*6900	*6900		
1.5 m		*1900	*1900	*3250	2950	*5700	4250	7900	6750		
0.0 m		*2100	*2100			*5800	4150	*8050	6550		
-1.5 m		*2600	*2600			*5300	4100	*7400	6500	*7400	*7400
-3.0 m								*5700	*5700		
Front/rear outrigger on ground Arm length 2500 mm											
7.5 m		*1750	*1750					*3350	*3350		
6.0 m		*1500	*1500			*3150	*3150	*3450	*3450		
4.5 m		*1400	*1400	*1750	*1750	*3850	*3850	*4000	*4000	*3500	*3500
3.0 m		*1400	*1400	*3150	2950	*5000	4350	*6450	6450		
1.5 m		*1500	*1500	*3900	2900	*5500	4200	*7550	6700		
0.0 m		*1650	*1650	*3850	2850	*5700	4050	*8000	6500	*4050	*4050
-1.5 m		*2000	*2000			*5400	4000	*7550	6400	*6900	*6900
-3.0 m						*4150	4050	*6150	*6150		
Front/rear outrigger on ground Arm length 3000 mm											
7.5 m		*1400	*1400			*2050	*2050	*2850	*2850		
6.0 m		*1200	*1200			*2800	*2800	*2700	*2700		
4.5 m		*1100	*1100	*2500	*2500	*3150	*3150	*2950	*2950		
3.0 m		*1100	*1100	*3150	3000	*4150	*4150	*5050	*5050		
1.5 m		*1150	*1150	*3900	2900	*5300	4250	*7200	6800		
0.0 m		*1300	*1300	*4350	2850	5650	4100	*7900	6500	*4250	*4250
-1.5 m		*1550	*1550	*3700	2800	*5550	4000	*7750	6400	*6250	*6250
-3.0 m		*2050	*2050			*4700	4000	*9750	6400	*9800	*9800

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No.J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW180-7 (One piece boom)

Conditions:

unit: kg

B	MAX		7.5 m		6.0 m		4.5 m		3.0m		1.5m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2250 mm Without stabilizer												
7.5 m	*2700	*2700										
6.0 m	*2450	1900			3500	2500						
4.5 m	2200	1450	2200	1500	3400	2400	5650	3950				
3.0 m	1950	1250	2150	1450	3200	2200	5150	3550				
1.5 m	1850	1200	2100	1350	3000	2000	4700	3100				
0.0 m	1900	1200	2000	1300	2850	1900	4450	2900	*4600	*4600		
-1.5 m	2100	1350			2800	1850	4400	2850	*8600	5350		
-3.0 m	2650	1750			2900	1900	4450	2900	*7700	5550		
-4.5 m												
Arm length 2250 mm With blade												
7.5 m	*2700	*2700										
6.0 m	*2450	2250			*4400	2900						
4.5 m	*2400	1750	*2600	1800	*5450	2800	*6650	4600				
3.0 m	*2450	1550	4250	1750	*5950	2600	*7850	4050				
1.5 m	*2700	1450	4150	1650	6100	2450	*8600	3650				
0.0 m	*3050	1500	4100	1600	5900	2300	*8650	3300	*4600	*4600		
-1.5 m	*3800	1650			*5750	2250	*7700	3250	*8600	6550		
-3.0 m	*3600	2100			*4200	2300	*6000	3500	*7700	6750		
-4.5 m												
Arm length 2250 mm With blade + outrigger												
7.5 m	*2700	*2700										
6.0 m	*2450	*2450			*4400	4400						
4.5 m	*2400	*2400	*2600	*2600	*5450	4300	*6700	*6700				
3.0 m	*2450	*2450	*4500	2800	*5900	4100	*7850	6500				
1.5 m	*2700	2400	4750	2700	*6350	3850	*8800	6050				
0.0 m	*3050	2500	4700	2650	*6300	3500	*8600	5350	*4600	*4600		
-1.5 m	*3800	2750			*5750	3600	*7800	5350	*8600	*8600		
-3.0 m	*3600	3450			*4200	3750	*6000	5800	*7700	*7700		
-4.5 m												
Arm length 2250 mm Outriggers front + rear												
7.5 m	*2700	*2700										
6.0 m	*2450	*2450			*4400	*4400						
4.5 m	*2400	*2400	*2600	*2600	*5450	5250	*6700	*6700				
3.0 m	*2450	*2450	*4500	3450	*5900	5050	*7850	*7950				
1.5 m	*2700	*2700	*4950	3400	*6350	4850	*8800	7700				
0.0 m	*3050	*3050	*4700	3300	*6300	4450	*8600	6900	*4600	*4600		
-1.5 m	*3800	3450			*5750	4550	*7800	6900	*8600	*8600		
-3.0 m	*3600	*3600			*4200	*4200	*6000	*6000	*7700	*7700		
-4.5 m												

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No.J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW180-7 (One piece boom)

Conditions:

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0m		1.5m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2600 mm		Without stabilizer											
7.5 m		*2200	*2200										
6.0 m		*2000	1750			3550	2550						
4.5 m		*2000	1350	2250	1550	3450	2450	*5500	4050				
3.0 m		1800	1200	2200	1450	3250	2250	5250	3600	10450	6700		
1.5 m		1700	1100	2100	1350	3050	2050	4750	3200				
0.0 m		1750	1100	2000	1300	2900	1900	4450	2900	*5300	5300		
-1.5 m		1950	1250	2000	1250	2800	1800	4350	2800	*8350	5300	*5150	*5150
-3.0 m		2400	1550			2850	1850	4400	2850	*8750	5500		
-4.5 m		*2700	2450					*3600	3000				
Arm length 2600 mm		With blade											
7.5 m		*2200	*2200										
6.0 m		*2000	*2000			*3950	2950						
4.5 m		*2000	1650	*3150	1850	*5000	2850	*5450	4700				
3.0 m		*2050	1450	4300	1750	*5800	2650	*7500	4150	*12100	8000		
1.5 m		*2250	1350	4200	1650	6150	2450	*8500	3700				
0.0 m		*2600	1400	4100	1600	5950	2300	*8700	3300	*5300	*5300		
-1.5 m		*3200	1550	4050	1550	5850	2200	*8000	3300	*8350	6500	*5150	*5150
-3.0 m		*3700	1900			*4700	2250	*6550	3450	*8750	6700		
-4.5 m		*2700	*2700					*3600	*3600				
Arm length 2600 mm		With blade + outrigger											
7.5 m		*2200	*2200										
6.0 m		*2000	*2000			*3950	*3950						
4.5 m		*2000	*2000	*3150	2900	*5000	4350	*5500	*5500				
3.0 m		*2050	*2050	*4450	2800	*5750	4150	*7500	6650	*12100	*12100		
1.5 m		*2250	*2250	4800	2700	*6250	3900	*8650	6100				
0.0 m		*2600	2300	4700	2650	*6350	3650	*8600	5400	*5300	*5300		
-1.5 m		*3200	2550	*4050	2600	*5900	3600	*8100	5350	*8350	*8350	*5150	*5150
-3.0 m		*3700	3100			*4700	3700	*6550	5750	*8750	*8750		
-4.5 m		*2700	*2700					*3600	*3600				
Arm length 2600 mm		Outriggers front + rear											
7.5 m		*2200	*2200										
6.0 m		*2000	*2000			*3950	*3950						
4.5 m		*2000	*2000	*3150	*3150	*5000	*5000	*5500	*5500				
3.0 m		*2050	*2050	*4450	3500	*5750	5100	*7500	*7600	*12100	*12100		
1.5 m		*2250	*2250	*4900	3400	*6250	4850	*8650	7750				
0.0 m		*2600	*2600	*4800	3300	*6350	4450	*8600	6900	*5300	*5300		
-1.5 m		*3200	3200	*4050	3300	*5900	4550	*8100	6850	*8350	*8350	*5150	*5150
-3.0 m		*3700	*3700			*4700	4650	*6550	*6550	*8750	*8750		
-4.5 m		*2700	*2700					*3600	*3600				

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No.J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW180-7 (One piece boom)

Conditions:

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0m		1.5m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm		Without stabilizer											
7.5 m	*1900	*1900			*2550	*2500							
6.0 m	*1750	1550			3600	2550							
4.5 m	*1700	1250	2250	1500	3450	2450							
3.0 m	1650	1050	2150	1450	3250	2250	5300	3650	10700	6950			
1.5 m	1600	1000	2050	1350	3000	2000	4800	3200					
0.0 m	1600	1000	1950	1250	2850	1850	4450	2850	*5500	5250			
-1.5 m	1750	1100	1900	1200	2750	1750	4300	2750	*8000	5200	*4800	*4800	
-3.0 m	2150	1350			2750	1750	4300	2750	8800	5350	*7650	*7650	
-4.5 m	*2850	2050					*4300	2950	*5700	5650			
Arm length 2900 mm		With blade											
7.5 m	*1900	*1900			*2550	*2550							
6.0 m	*1750	*1750			*3650	2950							
4.5 m	*1700	1500	*3250	1850	*4450	2850							
3.0 m	*1800	1300	4300	1750	*5550	2650	*7150	4200	*11250	8250			
1.5 m	*1950	1250	4150	1650	*6100	2450	*8200	3700					
0.0 m	*2200	1250	4050	1550	5900	2250	*8650	3300	*5550	*5550			
-1.5 m	*2700	1400	4000	1500	5800	2150	*8150	3200	*8000	6400	*4800	*4800	
-3.0 m	*3600	1700			*4950	2150	*6850	3400	*9450	6550	*7650	*7650	
-4.5 m	*2850	2500					*4300	3550	*5700	*5700			
Arm length 2900 mm		With blade + outrigger											
7.5 m	*1900	*1900			*2550	*2550							
6.0 m	*1750	*1750			*3650	*3650							
4.5 m	*1700	*1700	*3250	2900	*4450	4350							
3.0 m	*1800	*1800	4300	2800	*5500	4150	*7200	6700	*11250	*11250			
1.5 m	*1950	*1950	4750	2700	*6100	3900	*8400	6150					
0.0 m	*2200	2150	4650	2600	*6300	3500	*8550	5350	*5550	*5550			
-1.5 m	*2700	2350	*4350	2550	*6000	3550	*8250	5300	*8000	*8000	*4800	*4800	
-3.0 m	*3600	2850			*4950	3600	*6850	5650	*9450	*9450	*7650	*7650	
-4.5 m	*2850	*2850					*4300	*4300	*5700	*5700			
Arm length 2900 mm		Outriggers front + rear											
7.5 m	*1900	*1900			*2550	*2550							
6.0 m	*1750	*1750			*3650	*3650							
4.5 m	*1700	*1700	*3250	*3250	*4450	*4450							
3.0 m	*1800	*1800	*4300	3500	*5500	5100	*7200	*7250	*11250	*11250			
1.5 m	*1950	*1950	*4800	3350	*6100	4850	*8400	7800					
0.0 m	*2200	*2200	*4800	3250	*6300	4400	*8600	6900	*5550	*5550			
-1.5 m	*2700	*2700	*4350	3200	*6000	4500	*8250	6800	*8000	*8000	*4800	*4800	
-3.0 m	*3600	3550			*4950	4550	*6850	*6850	*9450	*9450	*7650	*7650	
-4.5 m	*2850	*2850					*4300	*4300	*5700	*5700			

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No.J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW180-7 (Two piece boom)

Conditions:

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0m		1.5m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2250 mm Without stabilizer													
7.5 m		*2950	*2950					*4800	4750				
6.0 m		*2250	2100			3500	2800	*4800	4750				
4.5 m		2150	1650	2200	1750	3400	2700	5650	4500				
3.0 m		1900	1450	2200	1700	3250	2500	5200	4050				
1.5 m		1850	1400	2100	1600	3050	2350	4750	3650				
0.0 m		1900	1450	2050	1550	2900	2250	4500	3400				
-1.5 m		2150	1650			2850	2200	4450	3400	*7700	6500		
-3.0 m													
-4.5 m													
Arm length 2250 mm With blade													
7.5 m		*2950	*2950					*4800	*4800				
6.0 m		*2550	2450			*4650	3250	*4800	*4800				
4.5 m		*2450	2000	*3100	2050	*5350	3150	*5900	5150				
3.0 m		*2450	1750	4350	2000	*5733	3000	*7518	4700				
1.5 m		*2600	1700	4250	1950	6138	2800	*8526	4300				
0.0 m		*2850	1750	3654	1900	6050	2650	*8536	4050				
-1.5 m		*3400	1950			*5850	2600	*8000	4050	*7700	*7700		
-3.0 m													
-4.5 m													
Arm length 2250 mm With blade + outrigger													
7.5 m		*2950	*2950					*4800	*4800				
6.0 m		*2550	*2550			*4650	*4650	*4800	*4800				
4.5 m		*2450	*2450	*3100	*3100	*5350	4700	*5900	*5900				
3.0 m		*2450	*2450	4650	3100	*5792	4500	*7673	7200				
1.5 m		*2600	*2600	4550	3000	*6250	4300	*8700	6700				
0.0 m		*2850	2750	4500	2891	*6350	3943	*8624	5934				
-1.5 m		*3400	3050			*5850	4100	*8000	5952	*7700	*7700		
-3.0 m													
-4.5 m													
Arm length 2250 mm Outriggers front + rear													
7.5 m		*2950	*2950					*4800	*4800				
6.0 m		*2550	*2550			*4650	*4650	*4800	*4800				
4.5 m		*2450	*2450	*3100	*3100	*5350	*5350	*5900	*5900				
3.0 m		*2450	*2450	*4800	3800	*5792	5500	*7673	*7750				
1.5 m		*2600	*2600	*4900	3700	*6250	2300	*8700	8500				
0.0 m		*2850	*2850	*4750	3577	*6350	4893	*8624	7544				
-1.5 m		*3400	*3400			*5850	5049	*8000	*7440	*7700	*7700		
-3.0 m													
-4.5 m													

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No.J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW180-7 (Two piece boom)

Conditions:

unit: kg

B	MAX		7.5 m		6.0 m		4.5 m		3.0m		1.5m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2600 mm Without stabilizer												
7.5 m	*2400	*2400			*2550	*2550						
6.0 m	*2100	1900			3550	2850						
4.5 m	2000	1550	2250	1750	3450	2750	*4900	4600				
3.0 m	1800	1350	2200	1700	3300	2600	5300	4150				
1.5 m	1700	1300	2100	1600	3050	2400	4800	3700				
0.0 m	1750	1350	2050	1550	2900	2250	4550	3450				
-1.5 m	1950	1500	2050	1550	2850	2200	4450	3350	*7550	6450		
-3.0 m					2900	2200	4500	3450				
-4.5 m												
Arm length 2600 mm (8'6") With blade												
7.5 m	*2400	*2400			*2550	*2550						
6.0 m	*2100	*2100			*4100	3300						
4.5 m	*2050	1850	*3500	2100	*4800	3200	*4900	*4900				
3.0 m	*2050	1650	4350	2000	*5537	3000	*7178	4800				
1.5 m	*2200	1550	4250	1950	*6089	2800	*8330	4350				
0.0 m	*2450	1600	3611	1850	6050	2650	*8585	4100				
-1.5 m	*2900	1800	4150	1850	5950	2600	*8525	4000	*7550	*7550		
-3.0 m					*4800	2650	*6750	4100				
-4.5 m												
Arm length 2600 mm (8'6") With blade + outrigger												
7.5 m	*2400	*2400			*2550	*2550						
6.0 m	*2100	*2100			*4100	*4100						
4.5 m	*2050	*2050	*3500	3150	*4800	4750	*4900	*4900				
3.0 m	*2050	*2050	*4600	3100	*5594	4550	*7326	7300				
1.5 m	*2200	*2200	4600	3000	*6150	4300	*8500	6800				
0.0 m	*2450	*2450	4500	2891	*6350	3943	*8673	5980				
-1.5 m	*2900	2800	*4250	2950	*6000	4100	*8250	5952	*7550	*7550		
-3.0 m					*4800	4150	*6750	6500				
-4.5 m												
Arm length 2600 mm (8'6") Outriggers front + rear												
7.5 m	*2400	*2400			*2550	*2550						
6.0 m	*2100	*2100			*4100	*4100						
4.5 m	*2050	*2050	*3500	*3500	*4800	*4800	*4900	*4900				
3.0 m	*2050	*2050	*4600	3800	*5594	5550	*7326	*7400				
1.5 m	*2200	*2200	*4850	3700	*6150	5350	*8500	*8500				
0.0 m	*2450	*2450	*4800	3577	*6350	4893	*8673	7590				
-1.5 m	*2900	*2900	*4250	3650	*6000	5100	*8250	7580	*7550	*7550		
-3.0 m					*4800	*4800	*6750	*6750				
-4.5 m												

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No.J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW180-7 (Two piece boom)

Conditions:

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0m		1.5m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Arm length 2900 mm Without stabilizer													
	7.5 m	*2050	*2050			*3050	2800						
	6.0 m	*1800	1750	*2000	1750	3600	2850						
	4.5 m	*1750	1400	2250	1750	3500	2750	*4100	*4100				
	3.0 m	1650	1250	2200	1700	3300	2600	5350	4200				
	1.5 m	1550	1150	2100	1600	3050	2350	4850	3700				
	0.0 m	1600	1200	2000	1500	2900	2200	4500	3400	*4600	*4600		
	-1.5 m	1800	1350	1950	1450	2800	2100	4400	3300	*7200	6300		
	-3.0 m					2800	2150	4400	3350				
	-4.5 m												
Arm length 2900 mm With blade													
	7.5 m	*2050	*2550			*3050	*3050						
	6.0 m	*1800	*1800	*2000	*2000	*3700	3300						
	4.5 m	*1750	1700	*3500	2100	*4250	3200	*4100	*4100				
	3.0 m	*1750	1500	4350	2000	*5341	3000	*6839	4850				
	1.5 m	*1850	1450	4200	1900	*5940	2800	*8085	4400				
	0.0 m	*2100	1450	3611	1800	6000	2600	*8488	4050	*4600	*4600		
	-1.5 m	*2450	1600	4100	1800	5900	2550	*8350	3950	*7200	*7200		
	-3.0 m				*5050	2550	*7050	4000					
	-4.5 m												
Arm length 2900 mm With blade + outrigger													
	7.5 m	*2050	*2050			*3050	*3050						
	6.0 m	*1800	*1800	*2000	*2000	*3700	*3700						
	4.5 m	*1750	*1750	*3500	3150	*4250	*4250	*4100	*4100				
	3.0 m	*1750	*1750	*4350	3100	*5450	4550	*6978	*7050				
	1.5 m	*1850	*1850	4550	3000	*6000	4300	*8250	6800				
	0.0 m	*2100	*2100	4450	2842	*6250	3895	*8575	5934	*4600	*4600		
	-1.5 m	*2450	*2450	*4400	2850	*6050	4050	*8350	5906	*7200	*7200		
	-3.0 m					*5050	4050	*7050	6400				
	-4.5 m												
Arm length 2900 mm Outriggers front + rear													
	7.5 m	*2050	*2050			*3050	*3050						
	6.0 m	*1800	*1800	*2000	*2000	*3700	*3700						
	4.5 m	*1750	*1750	*3500	*3500	*4250	*4250	*4100	*4100				
	3.0 m	*1750	*1750	*4350	3800	*5450	*5450	*6980	*7050				
	1.5 m	*1850	*1850	*4750	3700	*6000	5300	*8250	*8250				
	0.0 m	*2100	*2100	*4800	3528	*6250	4893	*8575	7544	*4600	*4600		
	-1.5 m	*2450	*2450	*4400	3550	*6050	5050	*8350	7533	*7200	*7200		
	-3.0 m					*5050	*5050	*7050	*7050				
	-4.5 m												

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No.J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW200-7 (One piece boom)

Conditions: Boom: 5700 mm, Bucket (SAE): 0.80 m³, Tires:10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 1800 mm											
7.5 m		*5150	3300								
6.0 m		3550	2150			4600	2900				
4.5 m		2900	1700	2900	1700	4450	2750	7300	4500		
3.0 m		2550	1450	2850	1650	4200	2500	6650	3900		
1.5 m		2450	1350	2750	1550	3950	2300	6100	3450		
0.0 m		2550	1400	2700	1500	3700	2050	5900	3300		
-1.5 m		2850	1600			3700	2050	5950	3300	*8450	6400
-3.0 m		*3500	2100			3900	2250	*5700	3450		
Rear outrigger on ground Arm length 1800 mm											
7.5 m		*4800	4450								
6.0 m		*4450	3000			*7450	3850				
4.5 m		*4400	2400	*4450	2400	*7850	3700	*10150	6000	*15600	11800
3.0 m		*4650	2150	5600	2350	*8250	3450	*11400	5400		
1.5 m		4950	2000	5500	2250	8050	3200	*11500	4900		
0.0 m		5100	2100	5400	2200	*7750	3000	*10350	4700		
-1.5 m		*4750	2350			*6500	3000	*8450	4750	*8400	*8400
-3.0 m		*3600	3000			*4100	3200	*5700	4900		
Front outrigger and rear blade on ground Arm length 1800 mm											
7.5 m		*4850	*4850								
6.0 m		*4500	4000			*7600	5050				
4.5 m		*4500	3250	*4500	3250	7800	4900	*10300	8000	*15800	*15800
3.0 m		4700	2900	5150	3200	7550	4650	*11550	7300		
1.5 m		4550	2800	5050	3100	7200	4350	*11700	6750		
0.0 m		4700	2850	4950	3050	6950	4150	*10550	6600		
-1.5 m		*4800	3200			*6600	4150	*8600	6600	*8550	*8550
-3.0 m		*3700	*3700			*4200	*4200	*5800	*5800		
Front and rear outrigger on ground Arm length 1800 mm											
7.5 m		*4800	*4800								
6.0 m		*4450	*4450			*7450	6200				
4.5 m		*4400	4000	*4450	4000	*7850	6050	*10150	10000	*15600	*15600
3.0 m		*4650	3600	6200	3950	*8250	5750	*11400	9250		
1.5 m		*5100	3500	6050	3850	*8350	5450	*11500	8650		
0.0 m		*5350	3600	*5750	3800	*7750	5250	*10350	8450		
-1.5 m		*4750	4050			*6500	5250	*8450	*8450	*8400	*8400
-3.0 m		*3600	*3600			*4100	*4100	*5700	*5700		

- * Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No.J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW200-7 (Two piece boom)

Conditions: Boom: 5400 mm, Bucket (SAE): 0.80 m³, Tires: 10.00-20-14PR

unit: kg

B	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 1800 mm										
7.5 m	*5050	3900					*6400	5000		
6.0 m	4000	2450			4650	2900	*6550	5050		
4.5 m	3150	1850			4550	2800	7600	4650	*11000	9000
3.0 m	2750	1550	2900	1650	4300	2550	5700	3900		
1.5 m	2650	1450	2800	1550	4050	2350	6300	3550		
0.0 m	2700	1500	2700	1500	3800	2150	6000	3300		
-1.5 m	3050	1700			3800	2100	6000	3300	*12050	6250
-3.0 m							6150	3450		
Rear outrigger on ground Arm length 1800 mm										
7.5 m	*5050	*5050					*6400	*6400		
6.0 m	*4550	3300			*6050	3900	*6550	*6550		
4.5 m	*4450	2600			6400	3800	*7750	6250	*11000	*11000
3.0 m	*4600	2250	5700	2350	*7150	3550	*9400	5400		
1.5 m	*5050	2150	5600	2250	*7850	3300	*10950	5000		
0.0 m	5500	2200	5500	2200	8050	3100	*11300	4750		
-1.5 m	6250	2500			7800	3050	*10650	4750	*12050	9300
-3.0 m							*8950	4900		
Front outrigger and rear blade on ground Arm length 1800 mm										
7.5 m	*5100	*5100					*6500	*6500		
6.0 m	*4600	4450			*6150	5150	*6650	*6650		
4.5 m	*4500	3500			*6550	*5050	*7900	*7900	*11200	*11200
3.0 m	*4700	3100	5700	3250	*7300	4800	*9550	7450		
1.5 m	*5100	2950	5600	3150	*8000	4500	*11150	7000		
0.0 m	5500	3050	5500	3050	*7900	4300	*11450	6700		
-1.5 m	6200	3450			7900	4250	*10850	6700	*12250	*12250
-3.0 m							*9150	6850		
Front and rear outrigger on ground Arm length 1800 mm										
7.5 m	*5100	*5100					*6500	*6500		
6.0 m	*4600	*4600			*6150	*6150	*6650	*6650		
4.5 m	*4500	4350			*6550	3200	*7900	*7900	*11200	*11200
3.0 m	*4700	3850	5850	4000	*7300	5900	*9550	9400		
1.5 m	*5100	3700	5700	3900	*8000	5650	*11150	8900		
0.0 m	5650	3800	5650	3850	8100	5400	*11450	8600		
-1.5 m	6400	4300			*7950	5350	*10850	8600	*12250	*12250
-3.0 m							*9150	8750		

- * Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No. J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW200-7 (One piece boom)

Conditions: Boom: 5700 mm, Bucket (SAE): 0.80 m³, Tires:10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 2400 mm											
7.5 m		*4250	2700			4650	2950				
6.0 m		3150	1900			4700	3000				
4.5 m		2600	1500	3000	1800	4550	2850	7550	4700		
3.0 m		2300	1300	2900	1700	4300	2600	6800	4050		
1.5 m		2200	1200	2800	1600	4050	2350	6300	3650		
0.0 m		2250	1250	2700	1500	3750	2100	6000	3350		
-1.5 m		2500	1400	2650	1450	3650	2050	5950	3300	*9750	6300
-3.0 m		*3050	1750			3800	2150	6050	3400	*8200	6550
Rear outrigger on ground Arm length 2400 mm											
7.5 m		*4250	3650			*5050	3900				
6.0 m		*4000	2600			*6800	3950				
4.5 m		*4050	2150	5800	2500	*7450	3800	*9450	6250		
3.0 m		*4200	1900	5650	2400	*8050	3550	*10850	5550		
1.5 m		4450	1800	5500	2300	8200	3300	*11650	5100		
0.0 m		4550	1850	5400	2200	7850	3050	*11050	4800		
-1.5 m		*4650	2050	*5150	2150	*7050	2950	*9500	4750	*9750	9350
-3.0 m		*3950	2500			*5300	3100	*7100	4850	*8200	*8200
Front outrigger and rear blade on ground Arm length 2400 mm											
7.5 m		*4350	*4350			*5100	*5100				
6.0 m		*4100	3500			*6900	5150				
4.5 m		*4100	2900	5300	3350	*7550	5000	*9600	8200		
3.0 m		4200	2600	5200	3250	7650	4750	*11000	7450		
1.5 m		4100	2500	5050	3100	7350	4450	*11850	7000		
0.0 m		4200	2550	4950	3000	7000	4200	*11250	6700		
-1.5 m		4650	2800	4900	3000	6900	4100	*9650	6600	*9900	*9900
-3.0 m		*4000	3450			*5400	4250	*7200	6700	*8400	*8400
Front and rear outrigger on ground Arm length 2400 mm											
7.5 m		*4350	*4350			*5100	*5100				
6.0 m		*4100	*4100			*6900	6300				
4.5 m		*4100	3600	5900	4100	*7550	6150	*9600	*9600		
3.0 m		*4300	3250	5800	4000	*8150	5850	*11000	9450		
1.5 m		4550	3150	5650	3900	8250	5600	*11850	8900		
0.0 m		4700	3200	5550	3800	7950	5300	*11250	8550		
-1.5 m		*4750	3550	*5250	3750	*7200	5200	*9650	8500	*9900	*9900
-3.0 m		*4000	*4000			*5400	5350	*7200	*7200	*8400	*8400

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No.J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW200-7 (Two piece boom)

Conditions: Boom: 5400 mm, Bucket (SAE): 0.80 m³, Tires: 10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 2400 mm											
7.5 m		*4400	3050								
6.0 m		3450	2050			4850	3050				
4.5 m		2800	1600	3050	1800	4700	2900	*6850	4900		
3.0 m		2450	1400	2950	1700	4400	2650	7200	4300		
1.5 m		2350	1300	2800	1600	4100	2400	6500	3760		
0.0 m		2400	1300	2700	1500	3900	2200	6100	3400		
-1.5 m		2650	1450	2700	1450	3750	2100	6000	3300	*10950	6200
-3.0 m		3300	1850			3850	2150	6050	3350	12800	6450
Rear outrigger on ground Arm length 2400 mm											
7.5 m		*4400	4050								
6.0 m		*4100	2850			*5350	4050				
4.5 m		*4050	2300	*5350	2500	*5850	3900	*6850	6450		
3.0 m		*4200	2000	*5700	2450	*6700	3650	*8750	5850		
1.5 m		*4550	1900	5650	2300	*7550	3350	*10500	5250		
0.0 m		*4900	1950	5550	2200	8050	3150	*11300	4850		
-1.5 m		5450	2150	5500	2150	8000	3050	*11100	4750	*10950	9300
-3.0 m		*6000	2700			*7100	3100	*9900	4850	*14050	9550
Front outrigger and rear blade on ground Arm length 2400 mm											
7.5 m		*4500	*4500								
6.0 m		*4150	3800			*5450	5300				
4.5 m		*4100	3100	*5450	3400	*5950	5150	*7000	*7000		
3.0 m		*4250	2800	5750	3300	*6850	4900	*8900	7900		
1.5 m		*4600	2650	5600	3150	*7700	4600	*10650	7200		
0.0 m		4850	2700	5500	3050	8000	4350	*11450	6850		
-1.5 m		5400	3000	5450	3050	7850	4250	*11250	6700	*11150	*11150
-3.0 m		*6100	3700			*7250	4300	*10050	6800	*14250	*14250
Front and rear outrigger on ground Arm length 2400 mm											
7.5 m		*4500	*4500								
6.0 m		*4150	*4150			*5450	*5450				
4.5 m		*4100	3850	*5450	4200	*5950	*5950	*7000	*7000		
3.0 m		*4250	3450	*5800	4100	*6850	6000	*8900	*8900		
1.5 m		*4600	3300	5750	3950	*7700	5700	*10650	9150		
0.0 m		5000	3400	5650	3850	*8200	5450	*11450	8750		
-1.5 m		5550	3750	5600	3800	8050	5350	*11250	8600	*11150	*11150
-3.0 m		*6100	4650			*7250	5400	*10050	8700	*14250	*14250

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No. J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW200-7 (One piece boom)

Conditions: Boom: 5700 mm, Bucket (SAE): 0.80 m³, Tires:10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 2900 mm											
7.5 m		*2650	2250			*4450	3050				
6.0 m		*2550	1600	3100	1850	4800	3050				
4.5 m		2300	1300	3050	1850	4600	2900				
3.0 m		2050	1100	2900	1700	4350	2650	7100	4300	14600	7950
1.5 m		1950	1050	2800	1600	4050	2400	6450	3750		
0.0 m		2000	1050	2650	1500	3800	2150	6050	3400	*5950	*5950
-1.5 m		2200	1150	2600	1400	3600	1950	5900	3250	*9200	6200
-3.0 m		2600	1450	2650	1450	3650	2050	5950	3300	*10200	6400
Rear outrigger on ground Arm length 2900 mm											
7.5 m		*2650	*2650			*4450	4050				
6.0 m		*2550	2250	*3850	2550	*5300	4000				
4.5 m		*2550	1650	*5300	2550	*6600	3850				
3.0 m		*2650	1450	5700	2400	*7750	3600	*10350	5800	*16700	11200
1.5 m		*2900	1400	5550	2300	8250	3350	*11450	5200		
0.0 m		*3250	1400	5400	2150	7900	3050	*11350	4850	*5950	*5950
-1.5 m		*3900	1500	5300	2100	*7400	2900	*10150	4700	*9200	*9200
-3.0 m		*3900	1800	*3950	2150	*5950	2950	*8050	4750	*10200	9400
Front outrigger and rear blade on ground Arm length 2900 mm											
7.5 m		*2700	*2700			*4500	*4500				
6.0 m		*2600	*2600	*3900	3400	*5400	5250				
4.5 m		*2600	2550	5350	3350	*6700	5050				
3.0 m		*2700	2350	5200	3250	7700	4800	*10550	7750	*16950	15950
1.5 m		*2950	2250	5050	3100	7400	4500	*11650	7100		
0.0 m		*3350	2300	4950	3000	7050	4200	*10550	6700	*6050	*6050
-1.5 m		*4050	2500	4850	2950	6850	4050	*10350	6550	*9300	*9300
-3.0 m		*5350	3150	*4000	2950	*6050	4100	*8200	6600	*10400	*10400
Front and rear outrigger on ground Arm length 2900 mm											
7.5 m		*2700	*2700			*4500	*4500				
6.0 m		*2600	*2600	*3900	*3900	*5400	*5400				
4.5 m		*2600	*2600	*5400	4150	*6700	6200				
3.0 m		*2700	*2700	5800	4050	*7850	5950	*10550	9750	*16950	*16950
1.5 m		*2950	2800	5650	3900	8300	5600	*11650	9050		
0.0 m		*3350	2900	5550	3750	8000	5300	*11550	8600	*6050	*6050
-1.5 m		*4050	3150	5450	3700	*7550	5150	*10350	8450	*9300	*9300
-3.0 m		*4000	3700	*4000	3750	*6050	5200	*8200	*8200	*10400	*10400

- * Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No.J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW200-7 (Two piece boom)

Conditions: Boom: 5400 mm, Bucket (SAE): 0.80 m³, Tires: 10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 2900 mm											
7.5 m		*2800	2500			*4150	3100				
6.0 m		*2600	1750	3100	1850	*4800	3100				
4.5 m		2450	1400	3100	1850	4750	3000	*6050	5050		
3.0 m		2200	1200	3000	1750	4500	2750	7400	4450	*12400	8500
1.5 m		2100	1100	2850	1600	4150	2450	6650	3850	*6350	*6350
0.0 m		2100	1100	2700	1450	3900	2200	6150	3400	*6950	6200
-1.5 m		2300	1200	2600	1400	3750	2050	5950	3250	*10200	6100
-3.0 m		2800	1500			3750	2050	5950	3250	*12250	6250
Rear outrigger on ground Arm length 2900 mm											
7.5 m		*2800	*2800			*4150	4100				
6.0 m		*2600	2450	*3200	2600	*4800	4150				
4.5 m		*2550	2000	*4950	2550	*5350	4000	*6050	*6050		
3.0 m		*2650	1750	*5350	2450	*6250	3700	*7950	6050	*12400	11900
1.5 m		*2900	1700	5650	2300	*7200	3400	*9900	5350	*6350	*6350
0.0 m		*3250	1700	5500	2200	*7900	3150	*11050	4900	*6950	*6950
-1.5 m		*3950	1850	5450	2100	*7950	3000	*11200	4700	*10200	9200
-3.0 m		*5250	2250			*7500	3000	*10400	4750	*15250	9350
Front outrigger and rear blade on ground Arm length 2900 mm											
7.5 m		*2850	*2850			*4250	*4250				
6.0 m		*2650	*2650	*3250	*3250	*4850	*4850				
4.5 m		*2600	*2600	*5000	3450	*5450	5250	*6150	*6150		
3.0 m		*2700	2500	*5450	3350	*6350	4950	*8100	8100	*12550	*12550
1.5 m		*2950	2400	5650	3200	*7300	4650	*10050	7350	*6450	*6450
0.0 m		*3350	2400	5500	3050	*8000	4400	*11250	6900	*7050	*7050
-1.5 m		*4000	2650	5400	3000	7800	4200	*11400	6700	*10350	*10350
-3.0 m		*5350	3150			*7650	4200	*10550	6700	*15450	*15450
Front and rear outrigger on ground Arm length 2900 mm											
7.5 m		*2850	*2850			*4250	*4250				
6.0 m		*2650	*2650	*3250	*3250	*4850	*4850				
4.5 m		*2600	*2600	*5000	4250	*5450	*5450	*6150	*6150		
3.0 m		*2700	*2700	*5450	4100	*6350	6100	*8100	*8100	*12550	*12550
1.5 m		*2950	*2950	5800	3950	*7300	5750	*10050	9300	*6450	*6450
0.0 m		*3350	3050	5650	3800	*8000	5500	*11250	8800	*7050	*7050
-1.5 m		*4000	3350	5550	3750	8000	5300	*11400	8550	*10350	*10350
-3.0 m		*5350	4000			*7650	5300	*10550	8550	*15450	*15450

- * Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No.J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW200-7 (One piece boom)

Conditions: Boom: 5700 mm, Bucket (SAE): 0.80 m³, Tires:10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 3500 mm											
7.5 m		*2650	1850	*2700	1900						
6.0 m		2400	1350	3150	1900						
4.5 m		2000	1100	3100	1850	4700	2950				
3.0 m		1800	950	2950	1750	4400	2700	7300	4450		
1.5 m		1750	900	2800	1600	4100	2400	6600	3850		
0.0 m		1750	900	2650	1450	3850	2150	6100	3400	*6500	*6200
-1.5 m		1900	950	2550	1350	3550	1950	5850	3200	*8750	6100
-3.0 m		2250	1150	2550	1350	3350	1900	5800	3200	*12150	6200
Rear outrigger on ground Arm length 3500 mm											
7.5 m		*2650	2550	*2700	2600						
6.0 m		*2550	2100	*4150	2650						
4.5 m		*2550	1750	*4950	2550	*5400	3950				
3.0 m		*2650	1550	5750	2450	*7300	3650	*9600	6000		
1.5 m		*2850	1450	5550	2250	*8000	3350	*11100	5350		
0.0 m		*3200	1450	5350	2150	7950	3100	*11450	4850	*6500	*6500
-1.5 m		*3800	1600	5250	2050	7650	2850	*10700	4650	*8750	*8750
-3.0 m		*4900	1900	*4750	2050	*6550	2850	*8950	4600	*12200	9200
Front outrigger and rear blade on ground Arm length 3500 mm											
7.5 m		*2700	*2700	*2750	*2750						
6.0 m		*2600	*2600	*4200	3500						
4.5 m		*2600	2300	*5050	3400	*5500	5150				
3.0 m		*2700	2050	5250	3250	*7450	4850	*9750	7950		
1.5 m		*2950	2000	5050	3100	7450	4550	*11250	7250		
0.0 m		*3300	2000	4900	2950	7150	4300	*11650	6750	*6600	*6600
-1.5 m		3650	2150	4800	2900	6850	4000	*10850	6500	*8900	*8900
-3.0 m		*3950	2550	4800	2850	*6650	4000	*9100	6500	*12400	*12400
Front and rear outrigger on ground Arm length 3500 mm											
7.5 m		*2700	*2700	*2750	*2750						
6.0 m		*2600	*2600	*4200	*4200						
4.5 m		*2600	*2600	*5050	4200	*5500	*5500				
3.0 m		*2700	2650	5850	4050	*7450	6000	*9750	*9750		
1.5 m		*2950	2550	5650	3900	*8100	5650	*11250	9200		
0.0 m		*3300	2550	5500	3750	8050	5400	*11650	8650	*6600	*6600
-1.5 m		*3950	2750	5400	3650	7750	5100	*10850	8400	*8900	*8900
-3.0 m		*3950	3200	*4800	3650	*6650	5050	*9100	8350	*12400	*12400

- * Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No.J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW200-7 (Two piece boom)

Conditions: Boom: 5400 mm, Bucket (SAE): 0.80 m³, Tires: 10.00-20-14PR

unit: kg

B	A	MAX		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 3500 mm											
7.5 m		*2700	2050								
6.0 m		*2550	1500	3200	1950	*4100	3200				
4.5 m		2150	1200	3150	1900	*4700	3050				
3.0 m		1950	1000	3000	1750	4600	2800	7000	4650	*10000	9200
1.5 m		1850	900	2850	1600	4250	2500	6750	3900		
0.0 m		1850	900	2700	1450	3900	2200	6250	3500	*7600	6300
-1.5 m		2000	1000	2550	1350	3700	2000	5950	3200	*9700	6050
-3.0 m		2350	1250	2550	1350	3650	1950	5850	3160	12350	6100
Rear outrigger on ground Arm length 3500 mm											
7.5 m		*2750	*2750								
6.0 m		*2550	2100	*3950	2700	*4100	*4100				
4.5 m		*2550	1750	*4500	2600	*4700	4100				
3.0 m		*2650	1550	4950	2500	*5650	3800	*7000	6250	*10000	*10000
1.5 m		*2850	1450	*5500	2300	*6750	3450	*9050	5450		
0.0 m		*3200	1450	5500	2150	*7550	3150	*10600	4950	*7600	*7600
-1.5 m		*3800	1600	5400	2050	7950	3000	*11150	4700	*9750	9100
-3.0 m		*4900	1900	5350	2050	*7750	2950	*10750	4600	*13700	9150
Front outrigger and rear blade on ground Arm length 3500 mm											
7.5 m		*2750	*2750								
6.0 m		*2600	*2600	*4000	3550	*4200	*4200				
4.5 m		*2600	2450	*4550	3500	*4800	*4800				
3.0 m		*2700	2200	*5050	3350	*5750	5050	*7100	*7100	*10150	*10150
1.5 m		*2900	2100	*5600	3200	*6850	4700	*9200	7500		
0.0 m		*3250	2150	5500	3050	*7700	4400	*10800	6950	*7700	*7700
-1.5 m		*3850	2300	5350	2900	7800	4200	*11350	6650	*9850	*9850
-3.0 m		4950	2700	5350	2900	7750	4150	*10950	6550	*13900	*13900
Front and rear outrigger on ground Arm length 3500 mm											
7.5 m		*2750	*2750								
6.0 m		*2600	*2600	*4000	*4000	*4200	*4200				
4.5 m		*2600	*2600	*4550	4300	*4800	*4800				
3.0 m		*2700	*2700	*5050	4150	*5750	*5750	*7100	*7100	*10150	*10150
1.5 m		*2900	2700	*5600	3950	*6850	5850	*9200	*9200		
0.0 m		*3250	2700	5600	3800	*7700	5500	*10800	8900	*7700	*7700
-1.5 m		*3850	2950	5500	3700	8050	5300	*11350	8550	*9850	*9850
-3.0 m		*5000	3400	5500	3650	*7850	5250	*10950	8450	*13900	*13900

- * Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No. J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW220-7 (One piece boom)

Conditions: Boom: 5700 mm, Bucket (SAE): 1.0 m³, Tires:11.00-20-14PR

unit: kg

B	A	MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 1800 mm													
7.5 m		*4800	4300										
6.0 m		4150	2900					5200	3700				
4.5 m		3350	2300			3350	2300	5050	3550	8200	5700	*16900	10850
3.0 m		3000	2050			3300	2250	4800	3350	7550	5100		
1.5 m		2900	1950			3200	2200	4500	3050	7000	4650		
0.0 m		3000	2000			3150	2100	4300	2850	6800	4450		
-1.5 m		3350	2250					4300	2850	6850	4500	*9300	8650
-3.0 m		*4050	2850					4500	3050	*6300	4650		
Rear outrigger on ground Arm length 1800 mm													
7.5 m		*4800	*4800										
6.0 m		*4450	3750					*7700	4700				
4.5 m		*4400	3050			*4450	3050	*8550	4600	*11050	7350	*16900	14600
3.0 m		*4650	2700			6300	3000	*9050	4350	*12400	6700		
1.5 m		*5100	2600			6150	2900	9000	4050	*12550	6200		
0.0 m		5750	2700			6100	2850	*8500	3850	*11350	6000	*9300	*9300
-1.5 m		*5250	3000					*7150	3850	*9300	6050		
-3.0 m		*4050	3800					*4600	4050	*6300	3200		
Front outrigger and rear blade on ground Arm length 1800 mm													
7.5 m		*4850	*4850										
6.0 m		*4500	*4500					*7850	5950				
4.5 m		*4500	3900			*4500	3900	8600	5800	*11200	9400	*17150	*17150
3.0 m		*4700	3500			5700	3850	8350	5550	*12600	8700		
1.5 m		5050	3400			5600	3750	8000	5250	*12750	8150		
0.0 m		5250	3500			5550	3700	7750	5050	*11550	7950		
-1.5 m		*5350	3900					*7250	5000	*9450	8000	*9500	*9500
-3.0 m		*4150	*4150					*4700	*4700	*6450	*6450		
Front and rear outrigger on ground Arm length 1800 mm													
		*4850	*4850										
6.0 m		*4500	*4500					*7850	7100				
4.5 m		*4500	*4500			*4500	*4500	*8700	6950	*11200	*11200	*17150	*17150
3.0 m		*4700	4250			6350	4650	*9200	6700	*12600	10750		
1.5 m		*5150	4100			6250	4550	9000	6400	*12750	10150		
0.0 m		5850	4250			6200	4450	*8650	6150	*11550	9950		
-1.5 m		*5350	4750					*7250	6150	*9450	*9450	*9500	*9500
-3.0 m		*4150	*4150					*4700	*4700	*6450	*6450		

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No.J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW220-7 (Two piece boom)

Conditions: Boom: 5400 mm, Bucket (SAE): 1.0 m³, Tires:11.00-20-14PR

unit: kg

B	A	MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 1800 mm													
7.5 m		*5050	4900							*7000	6250		
6.0 m		*4550	3200					5250	3700	*7100	6300		
4.5 m		3650	2500					5150	3600	*8450	5900	*12000	11450
3.0 m		3200	2150			3350	2250	4900	3400	7600	5100		
1.5 m		3050	2050			3250	2150	4650	3150	7200	4750		
0.0 m		3150	2100			3150	2100	4400	2950	6900	4500		
-1.5 m		3550	2350					4400	2900	6900	4450	*12050	8500
-3.0 m										7050	4600		
Rear outrigger on ground Arm length 1800 mm													
7.5 m		*5050	*5050							*7000	*7000		
6.0 m		*4550	4100					*6600	4750	*7100	*7100		
4.5 m		*4450	3300					*7050	4650	*8450	7600	*12000	*12000
3.0 m		*4600	2900			*6150	3000	*7850	4400	*10300	6750		
1.5 m		*5050	2750			6300	2900	*8600	4150	*12000	6350		
0.0 m		*5800	2850			*6000	2850	*8900	3950	*12350	6100		
-1.5 m		*6950	3200					*8550	3950	*11700	6050	*12050	*12050
-3.0 m										*9850	6250		
Front outrigger and rear blade on ground Arm length 1800 mm													
7.5 m		*5100	*5100							*7100	*7100		
6.0 m		*4600	*4600					*6700	6100	*7250	*7250		
4.5 m		*4500	4250					*7150	6000	*8600	*8600	*12150	*12150
3.0 m		*4700	3800			*6250	3900	*8000	5700	*10450	8900		
1.5 m		*5100	3650			6200	3800	*8750	5450	*12200	8450		
0.0 m		*5900	3750			6100	3750	8750	5200	*12550	8200		
-1.5 m		6900	4200					*8700	5200	*11900	8150	*12250	*12250
-3.0 m										*10050	8350		
Front and rear outrigger on ground Arm length 1800 mm													
7.5 m		*5100	*5100							*7100	*7100		
6.0 m		*4600	*4600					*6700	*6700	*7250	*7250		
4.5 m		*4500	*4500					*7150	*7150	*8600	*8600	*12150	*12150
3.0 m		*4700	4500			*6250	4700	*8000	6850	*10450	*10450		
1.5 m		*5100	4350			6350	4600	*8750	6550	*12200	10400		
0.0 m		*5900	4500			*6100	4500	9000	6350	*12550	10100		
-1.5 m		*7050	5050					*8700	6300	*11900	10100	*12250	*12250
-3.0 m										*10050	*10050		

- * Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No.J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW220-7 (One piece boom)

Conditions: Boom: 5700 mm, Bucket (SAE): 1.0 m³, Tires:11.00-20-14PR

unit: kg

B	A	MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 2400 mm													
	7.5 m	*4250	3500					*5050	3750				
	6.0 m	3600	2500					5300	3800				
	4.5 m	3000	2050			3450	2400	5150	3650	8450	5900		
	3.0 m	2700	1800			3350	2300	4900	3400	7700	5250		
	1.5 m	2600	1750			3250	2200	4650	3150	7200	4800		
	0.0 m	2650	1750			3150	2100	4350	2900	6900	4550		
	-1.5 m	2950	1950			3100	2100	4250	2800	6850	4500	*9750	8550
	-3.0 m	3550	2400					4400	2950	6950	4600	*9100	8800
Rear outrigger on ground Arm length 2400 mm													
	7.5 m	*4250	*4250					*5050	4800				
	6.0 m	*4000	3250					*6800	4850				
	4.5 m	*4050	2700			*6300	3150	*8100	4700	*9950	7550		
	3.0 m	*4200	2450			6350	3050	*8800	4450	*11800	6850		
	1.5 m	*4600	2350			6200	2900	9150	4150	*12700	6400		
	0.0 m	5150	2400			6100	2850	8800	2900	*12100	6100		
	-1.5 m	*5150	2650			*5700	2800	*7800	3800	*10450	6050	*9750	*9750
	-3.0 m	*4350	3200					*5900	3950	*7800	6150	*9100	*9100
Front outrigger and rear blade on ground Arm length 2400 mm													
	7.5 m	*4350	*4350					*5100	*5100				
	6.0 m	*4100	*4100					*6900	6050				
	4.5 m	*4100	3500			5900	4000	*8250	5900	*10100	9650		
	3.0 m	*4300	3150			5750	3900	8450	5650	*12000	8900		
	1.5 m	4600	3050			5650	3750	8150	5350	*12900	8400		
	0.0 m	4700	3150			5550	3700	7800	5100	*12300	8050		
	-1.5 m	5200	3450			5500	3650	7700	5000	*10600	8000	*9900	*9900
	-3.0 m	*4450	4150					*6000	5150	*7950	*7950	*9300	*9300
Front and rear outrigger on ground Arm length 2400 mm													
	*4850	*4350	*4350					*5100	*5100				
	6.0 m	*4100	*4100					*6900	*6900				
	4.5 m	*4100	*4100			*6350	4800	*8250	7100	*10100	*10100		
	3.0 m	*4300	3850			6400	4700	*8900	6800	*12000	*10950		
	1.5 m	*4700	3700			6300	4550	9150	6500	*12900	10400		
	0.0 m	5250	2800			6150	4450	8800	6200	*12300	10050		
	-1.5 m	*5250	4200			*5800	4450	*7900	6100	*10600	10000	*9900	*9900
	-3.0 m	*4450	*4450					*6000	*6000	*7950	*7950	*9300	*9300

- * Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No.J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW220-7 (Two piece boom)

Conditions: Boom: 5400 mm, Bucket (SAE): 1.0 m³, Tires:11.00-20-14PR

unit: kg

B	A	MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 2400 mm													
7.5 m		*4400	3900										
6.0 m		3900	2700					5450	3850				
4.5 m		3200	2200			3500	2400	5300	3750	*7500	6100		
3.0 m		2850	1900			3400	2300	5000	3500	8100	5500		
1.5 m		2750	1800			3300	2200	4750	3200	7400	4950		
0.0 m		2800	1850			3150	2100	4500	3000	7000	4600		
-1.5 m		3000	1950			3150	2050	4400	2900	6900	4500	*9150	8450
-3.0 m		3850	2550					4450	2950	6950	4550	14550	8700
Rear outrigger on ground Arm length 2400 mm													
7.5 m		*4400	*4400										
6.0 m		*4100	3550					*5850	4900				
4.5 m		*4050	2900			*5550	3150	*6450	4800	*7500	*7500		
3.0 m		*4200	2600			*6250	3050	*7350	4550	*9550	7200		
1.5 m		*4550	2450			6300	2950	*8300	4250	*11450	6550		
0.0 m		*5200	2500			6200	2850	*8850	4000	*12350	6200		
-1.5 m		6100	2800			6150	2800	*8800	3900	*12150	6050	*10950	*10950
-3.0 m		*6600	3450					*7800	3950	*10850	6150	*15400	12250
Front outrigger and rear blade on ground Arm length 2400 mm													
7.5 m		*4500	*4500										
6.0 m		*4150	*4150					*5950	*5950				
4.5 m		*4100	3750			*5600	4100	6550	6100	*7600	*7600		
3.0 m		*4250	3400			6350	4000	*7500	5850	*9750	9400		
1.5 m		*4600	3250			6200	3850	*8400	5550	*11650	8700		
0.0 m		*5250	3350			6100	3750	8850	5300	*12550	8300		
-1.5 m		6000	3700			6050	3700	8700	5150	*12350	8150	*11150	*11150
-3.0 m		*6700	4500					*7950	5250	*11050	8250	*15650	*15650
Front and rear outrigger on ground Arm length 2400 mm													
7.5 m		*4500	*4500										
6.0 m		*4150	*4150					*5950	*5950				
4.5 m		*4100	*4100			*5600	4850	*6550	*6550	*7600	*7600		
3.0 m		*4250	4050			*6350	4750	*7500	6950	*9750	*9750		
1.5 m		*4600	3900			6400	4650	*8400	6650	*11650	10650		
0.0 m		*5250	4000			6250	4500	*9000	6400	*12550	10250		
-1.5 m		6150	4450			6250	4500	8950	6300	*12350	10100	*11150	*11150
-3.0 m		*6700	5450					*7950	6350	*11000	10200	*15650	*15650

* Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No.J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW220-7 (One piece boom)

Conditions: Boom: 5700 mm, Bucket (SAE): 1.0 m³, Tires:11.00-20-14PR

unit: kg

B	A	MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 2900 mm													
	7.5 m	*2650	*2650					*4450	3850				
	6.0 m	*2550	2200			3550	2450	*5300	3850				
	4.5 m	*2550	1800			3500	2450	5200	3700				
	3.0 m	2450	1600			3350	2300	4950	3450	8000	5500	16400	10300
	1.5 m	2350	1550			3250	2200	4650	3200	7350	4900		
	0.0 m	2400	1550			3100	2100	4400	2950	6950	4550	*5950	*5950
	-1.5 m	2600	1700			3050	2000	4200	2750	6800	4450	*9200	8450
	-3.0 m	3050	2050			3100	2050	4250	2800	6850	4450	*11250	8650
Rear outrigger on ground Arm length 2900 mm													
	7.5 m	*2650	*2650					*4450	*4450				
	6.0 m	*2550	*2550			*3850	3200	*5300	4900				
	4.5 m	*2550	2400			*5300	3150	*6600	4750				
	3.0 m	*2650	2200			6350	3050	*8450	4500	*11300	7150	*18150	13950
	1.5 m	*2900	2100			6200	2900	9000	4200	*12500	6500		
	0.0 m	*3300	2150			6050	2800	8850	3950	*12400	6150	*5950	*5950
	-1.5 m	*4000	2350			6000	2750	8150	3750	*11150	6000	*9200	*9200
	-3.0 m	*4350	2750			*4400	2800	*6600	3800	*8850	6050	*11250	*11250
Front outrigger and rear blade on ground Arm length 2900 mm													
	7.5 m	*2700	*2700					*4500	*4500				
	6.0 m	*2600	*2600			*3900	*3900	*5400	*5400				
	4.5 m	*2600	*2600			*5400	4050	*6700	5950				
	3.0 m	*2700	*2700			5800	3900	8500	5700	*11450	9150	*18400	*18400
	1.5 m	*2950	2750			5650	3750	8200	5400	*12700	8500		
	0.0 m	*3350	2800			5500	3650	7850	5100	*12600	8100	*6050	*6050
	-1.5 m	*4050	3050			5450	3600	7650	4950	*11300	7950	*9300	*9300
	-3.0 m	*4450	3600			*4500	3600	*6700	5000	*9000	8000	*11450	*11450
Front and rear outrigger on ground Arm length 2900 mm													
	*4850	*2700	*2700					*4500	*4500				
	6.0 m	*2600	*2600			*3900	*3900	*5400	*5400				
	4.5 m	*2600	*2600			*5400	4400	*6700	6600				
	3.0 m	*2700	*2700			5950	4300	*8500	6300	*11300	10400	*18150	*18150
	1.5 m	*2950	*2950			5800	4150	8500	6000	*12650	9700		
	0.0 m	*3350	3100			5650	4050	8150	5700	*12650	9250	*6050	*6050
	-1.5 m	*4050	3350			5600	4950	7950	5500	*11500	9100	*9300	*9300
	-3.0 m	*4600	4000			*4650	4000	*6900	5550	*9300	9150	*11450	*11450

- * Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No.J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW220-7 (Two piece boom)

Conditions: Boom: 5400 mm, Bucket (SAE): 1.0 m³, Tires:11.00-20-14PR

unit: kg

B	A	MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 2900 mm													
7.5 m		*2800	*2800					*4150	3900				
6.0 m		*2600	2350			*3200	2500	*5150	3950				
4.5 m		*2550	1900			3550	2450	5400	3800	*6300	6300		
3.0 m		2550	1700			3450	2350	5100	3550	8300	5700	*13450	10900
1.5 m		2450	1600			3300	2200	4750	3250	7550	5050	*6350	*6350
0.0 m		2500	1600			3150	2100	4500	3000	7050	4600	*6950	*6950
-1.5 m		2750	1750			3100	2000	4350	2850	6850	4450	*10200	8400
-3.0 m		3250	2150					4350	2850	6850	4450	14350	8550
Rear outrigger on ground Arm length 2900 mm													
7.5 m		*2800	*2800					*4150	*4150				
6.0 m		*2600	*2600			*3200	*3200	*5150	5000				
4.5 m		*2550	*2550			*4950	3200	*5850	4850	*6300	*6300		
3.0 m		*2650	2300			*5900	3100	*6850	4600	*8700	7400	*13450	*13450
1.5 m		*2900	2200			6350	2950	*7900	4300	*10850	6700	*6350	*6350
0.0 m		*3250	2250			6200	2800	*8650	4050	*12100	6250	*6950	*6950
-1.5 m		*3950	2450			6100	2750	*8800	3850	*12250	6050	*10200	*10200
-3.0 m		*5250	2950					*8250	3900	*11400	6050	*15250	12100
Front outrigger and rear blade on ground Arm length 2900 mm													
7.5 m		*2850	*2850					*4250	*4250				
6.0 m		*2650	*2650			*3250	*3250	*5250	*5250				
4.5 m		*2600	*2600			*5000	4150	*5950	*5950	*6400	*6400		
3.0 m		*2700	*2700			*6000	4000	*6950	*5900	*8850	*8850	*13700	*13700
1.5 m		*2950	*2950			6250	3850	*8050	5600	*11000	8850	*6450	*6450
0.0 m		*3350	3000			6100	3750	*8800	5300	*12300	8350	*7050	*7050
-1.5 m		*4000	3250			6000	3650	8650	5150	*12450	8150	*10350	*10350
-3.0 m		*5350	3150					*8400	5150	*11600	8150	*15450	*15450
Front and rear outrigger on ground Arm length 2900 mm													
7.5 m		*2850	*2850					*4250	*4250				
6.0 m		*2650	*2650			*3250	*3250	*5250	*5250				
4.5 m		*2600	*2600			*5000	4500	*5950	*5950	*6400	*6400		
3.0 m		*2700	*2700			*6000	4400	*6950	6500	*8850	*8850	*13700	*13700
1.5 m		*2950	*2950			5900	4250	*8050	6150	*11000	10000	*6450	*6450
0.0 m		*3350	3250			5750	4100	8400	5850	*12300	9450	*7050	*7050
-1.5 m		*4000	3550			5700	4000	8200	5700	*12450	9200	*10350	*10350
-3.0 m		*5350	4250					8250	5700	*11600	9200	*15450	*15450

- * Load is limited by hydraulic capacity rather than tipping.
Ratings are based on SAE Standard No.J1097.
Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

PW220-7 (One piece boom)

Conditions: Boom: 5700 mm, Bucket (SAE): 1.0 m³, Tires:11.00-20-14PR

unit: kg

B	A	MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 3500 mm													
7.5 m		*2650	2450			*2700	2500						
6.0 m		*2550	1900			3600	2550						
4.5 m		2400	1600	2450	1600	3550	2450	5300	3800				
3.0 m		2150	1400	2400	1550	3400	2350	5000	3500	8200	5650		
1.5 m		2100	1350	2300	1500	3250	2200	4700	3200	7500	5050		
0.0 m		2100	1350	2250	1450	3100	2050	4450	2950	7000	4600	*6500	*6500
-1.5 m		2250	1450			3000	1950	4150	2750	6750	4400	*8750	8300
-3.0 m		2650	1700			3000	1950	4150	2700	6700	4350	*12350	8400
Rear outrigger on ground Arm length 3500 mm													
7.5 m		*2650	*2650			*2700	*2700						
6.0 m		*2550	2500			*4150	3300						
4.5 m		*2550	2150	*2850	2200	*4950	3200	*5400	4800				
3.0 m		*2650	1950	*3950	2150	*6200	3050	*7750	4550	*10450	7300		
1.5 m		*2900	1850	4500	2100	6200	2900	*8750	4250	*12150	6650		
0.0 m		*3250	1900	4450	2000	6050	2800	8900	3950	*12550	6150	*6500	*6500
-1.5 m		*3900	2050			5950	2700	*8450	3700	*11700	5950	*8750	*8750
-3.0 m		*4300	2350			*5250	2650	*7200	3700	*9850	5950	*12350	11900
Front outrigger and rear blade on ground Arm length 3500 mm													
7.5 m		*2700	*2700			*2750	*2750						
6.0 m		*2600	*2600			*4200	4150						
4.5 m		*2600	*2600	*2900	2850	*5050	4050	*5500	*5500				
3.0 m		*2700	2550	*4000	2800	5800	3950	*7900	5750	*10600	9400		
1.5 m		*2950	2450	4150	2750	5650	3750	8250	5450	*12300	8650		
0.0 m		*3300	2500	4050	2650	5500	3600	7950	5150	*12750	8150	*6600	*6600
-1.5 m		*3950	2700			5400	3550	7600	4900	*11900	7900	*8900	*8900
-3.0 m		*4400	3100			*5350	3500	*7350	4850	*10000	7900	*12550	*12550
Front and rear outrigger on ground Arm length 3500 mm													
		*4850	*2700	*2700				*2750	*2750				
6.0 m		*2600	*2600					*4200	*4200				
4.5 m		*2600	*2600	*2900	*2900	*5050	4900	*5500	*5500				
3.0 m		*2700	*2700	*4000	3400	*6300	4750	*7900	6950	*10600	*10600		
1.5 m		*2950	*2950	4600	3350	6300	4550	*8900	6600	*12300	10700		
0.0 m		*3300	3100	4500	3250	6150	4400	8950	6300	*12750	10150	*6600	*6600
-1.5 m		*3950	3300			6050	4300	*8600	6050	*11900	9900	*8900	*8900
-3.0 m		*4400	3800			*5350	6400	*7350	6000	*10000	9850	*12550	*12550

* Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No.J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Lifting Capacity

WHEEL-TYPE EXCAVATORS

PW220-7 (Two piece boom)

Conditions: Boom: 5400 mm, Bucket (SAE): 1.0 m³, Tires:11.00-20-14PR

unit: kg

B	A	MAX		9.0 m		7.5 m		6.0 m		4.5 m		3.0 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
Without stabilizer Arm length 3500 mm													
7.5 m	*2700	2700											
6.0 m	*2550	2050			3650	2550	*4500	4050					
4.5 m	2550	1700			3600	2500	*5100	3900					
3.0 m	2300	1500	2400	1550	3450	2400	5200	3600	*7650	5900	*10850	*10850	
1.5 m	2200	1400	2350	1500	3300	2200	4850	3300	4650	5150			
0.0 m	2200	1400	2250	1450	3150	2050	4500	3000	7150	4700	*7600	*7600	
-1.5 m	2400	1500			3000	1950	4300	2850	6850	4400	*9700	8300	
-3.0 m	2800	1800			3000	1950	4250	2750	6750	4350	*13700	8350	
Rear outrigger on ground Arm length 3500 mm													
7.5 m	*2750	*2750											
6.0 m	*2550	*2550			*3950	3350	*4500	*4500					
4.5 m	*2550	2300			*4750	3250	*5100	4950					
3.0 m	*2650	2050	*3350	2150	*5450	3150	*6250	4700	*7650	7600	*10850	*10850	
1.5 m	*2850	1950	*3950	2100	*6050	2950	*7400	4350	*9900	6800			
0.0 m	*3200	2000	*3650	2000	6200	2800	*8300	4050	*11650	6300	*7600	*7600	
-1.5 m	*3800	2150			6050	2700	*8750	3850	*12200	6000	*9750	*9750	
-3.0 m	*4900	2500			6050	2700	*8500	3850	*11800	5950	*13700	11850	
Front outrigger and rear blade on ground Arm length 3500 mm													
7.5 m	*2750	*2750											
6.0 m	*2600	*2600			*4000	*4000	*4550	*4550					
4.5 m	*2600	*2600			*4850	4200	*5200	*5200					
3.0 m	*2700	*2700	*3400	2850	*5550	4050	*6350	6000	*7750	*7750	*11050	*11050	
1.5 m	*2900	2650	*4000	2800	*6150	3900	*7500	5650	*10100	8950			
0.0 m	*3250	2650	*3700	2700	6100	3700	*8450	5350	*11800	8450	*7700	*7700	
-1.5 m	*3850	2850			5950	3600	8650	5100	*12450	8100	*9850	*9850	
-3.0 m	*5000	3350			5950	3600	8600	5050	*12000	8050	*13900	*13900	
Front and rear outrigger on ground Arm length 3500 mm													
7.5 m	*2750	*2750											
6.0 m	*2600	*2600			*4000	*4000	*4550	*4550					
4.5 m	*2600	*2600			*4850	*4850	*5200	*5200					
3.0 m	*2700	*2700	*3400	*3400	*5500	4850	*6350	*6350	*7750	*7750	*11050	*11050	
1.5 m	*2900	*2900	*4000	3350	*6150	4650	*7500	6750	*10100	*10100			
0.0 m	*3250	*3250	*3700	3300	6250	4500	*8450	6450	*11800	10400	*7700	*7700	
-1.5 m	*3850	3500			6150	4350	8900	6250	*12450	10050	*9850	*9850	
-3.0 m	*5000	4050			6100	4350	*8650	6150	*12000	9950	*13900	*13900	

- * Load is limited by hydraulic capacity rather than tipping.
 Ratings are based on SAE Standard No.J1097.
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

SECTION **2G**

DEMOLITION

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Machine and Attachments

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Demolition Specification 2G-3

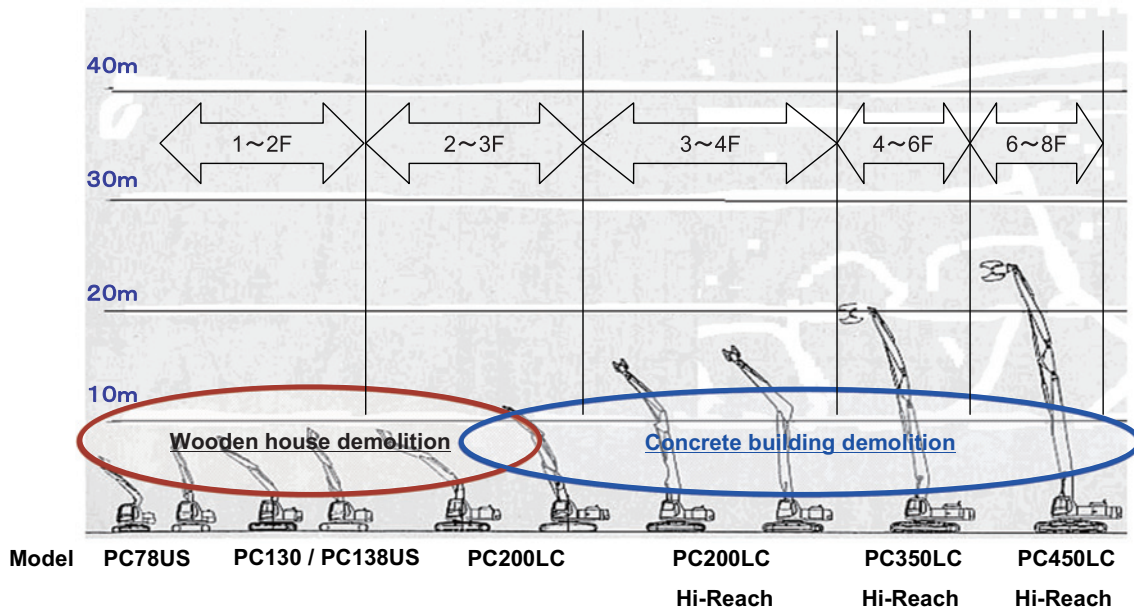
Demolition High Reach 2G-4

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Underground Demolition Specifications 2G-11

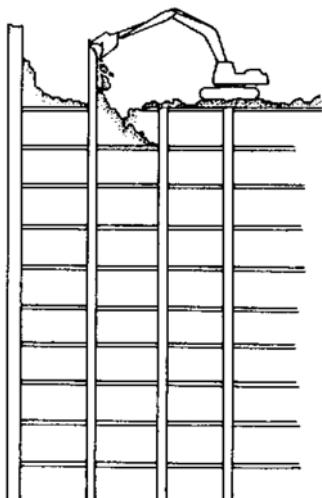
1. When carrying out demolition of concrete building from the ground

- 1) For demolition of 4~10 storied buildings use a hydraulic excavator with a super long boom and arm as base machine.
- 2) For demolition of 2~4 storied buildings use a hydraulic excavator with a normal boom and arm as the base machine.
- 3) For demolition of the foundations or areas below ground level, use a hydraulic excavator with the normal boom and arm as the base machine and operate from the ground level. If necessary, lower the machine below the ground to carry out the work.



2. When carrying out demolition from inside the building being demolished

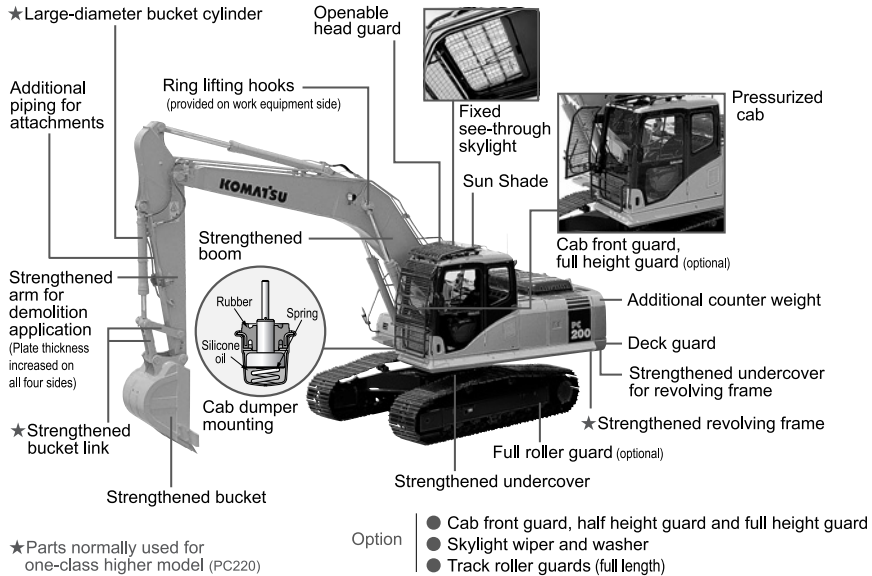
There is no space to carry out demolition work with machine from the ground level, or the building is too high (higher than 6 stories) to demolished, and the demolition attachment does not reach, place the demolition machine on the top floor of the building to be demolished. Start the demolition operation from the top, and work down.



Specifications Demolition Specification

DEMOLITION

- Demolition work means hard work for hydraulic excavators. Operator safety, machine flexibility, reliability and performance are essential for this application.
- Demolition specification features additional machine guarding, reinforced structure and better visibility that enables safer and more efficient operation.



Specifications Demolition High Reach

DEMOLITION

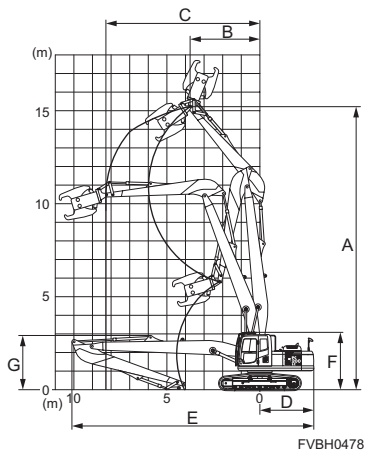
- Demolition high reach enables high efficient operation and safety for 3-4 stories building demolition.
- Two-stage front type provides easy demolition operation thanks to the same lever motion as standard machine.



Working Range

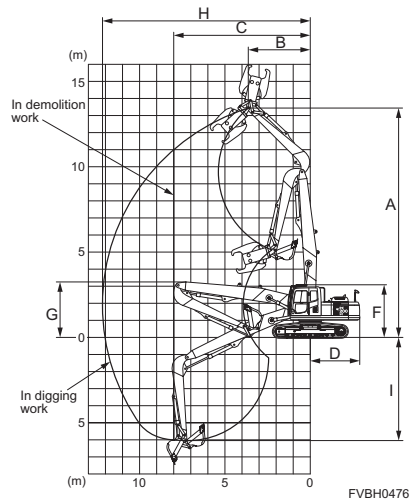
PC200LC

(2-stage type for demolition work only)



PC200LC

(2-stage type for demolition and digging work)



Specifications

Model		PC200LC	
Structure	High reach type	2-stage	
	Boom type	1-piece	
	Application	For Demolition work	For Demolition & Digging work
Operating Weight *1	kg(lb)	28,200(62,170)	27,200(59,970)
Max. Allowable Crusher Weight	kg(lb)	2,300(5,070)	2,300(5,070)
Max. Working Height *2	A mm(ft.in)	15,215(49'11")	13,460(44'2")
Arm Top Pin Radius at Max. Working Height	B mm(ft.in)	3,810(12'6")	3,600(11'10")
Max. Allowable Working Radius	C mm(ft.in)	8,300(27'3")	8,000(26'3")
Tail Swing Radius	D mm(ft.in)	2,940(9'8")	2,940(9'8")
Overall Length *3	E mm(ft.in)	13,260(43'6")	11,090(36'5")
Overall Height *3	F mm(ft.in)	3,160(10'4")	3,160(10'4")
Height of Folded Work Equipment	G mm(ft.in)	2,850(9'4")	3,000(9'10")
Arm Top Pin at Max. Working Radius	H mm(ft.in)	—	12,210(40'1")
Arm Top Pin at Max. Working Depth	I mm(ft.in)	—	6,165(20'3")

* The photos may slightly differ from the standard specifications of demolition high reach.

* For precautions when operating the machine, refer to the operation and maintenance manual.

*1 Excluding allowable crusher weight

*2 Arm top pin

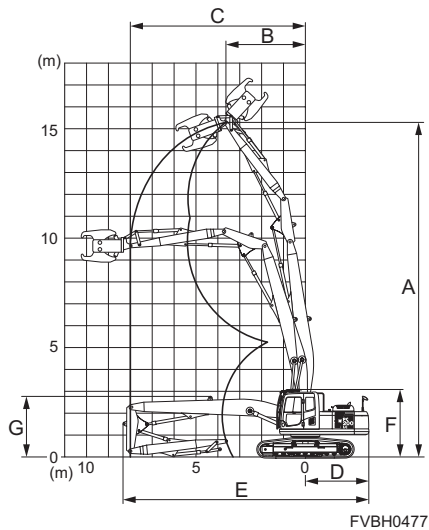
*3 When work equipment is folded and lowered to the ground

- Demolition high reach enables high efficient operation and safety for 3-4 stories building demolition.
- Three-stage front type suits for delicate demolition work thanks to the intermediate arm that ensures the wider working range than 2-stage type.

Working Range

PC200LC

(3-stage type for demolition work only)



Specifications

Model		PC200LC
Structure	High reach type	3-stage
	Boom type	1-piece
Operating Weight *1	kg(lb)	27,700(61,070)
Max. Allowable Crusher Weight	kg(lb)	2,100(4,630)
Max. Working Height *2	A mm(ft.in)	15,225(49'11")
Arm Top Pin Radius at Max. Working Height	B mm(ft.in)	3,600(11'10")
Max. Allowable Working Radius	C mm(ft.in)	8,000(26'3")
Tail Swing Radius	D mm(ft.in)	2,940(9'8")
Overall Length *3	E mm(ft.in)	11,280(37'0")
Overall Height *3	F mm(ft.in)	3,160(10'4")
Height of Folded Work Equipment	G mm(ft.in)	2,750(9')

* The photos may slightly differ from the standard specifications of demolition high reach.
 * For precautions when operating the machine, refer to the operation and maintenance manual.
 *1 Excluding allowable crusher weight
 *2 Arm top pin
 *3 When work equipment is folded and lowered to the ground

Specifications Demolition High Reach

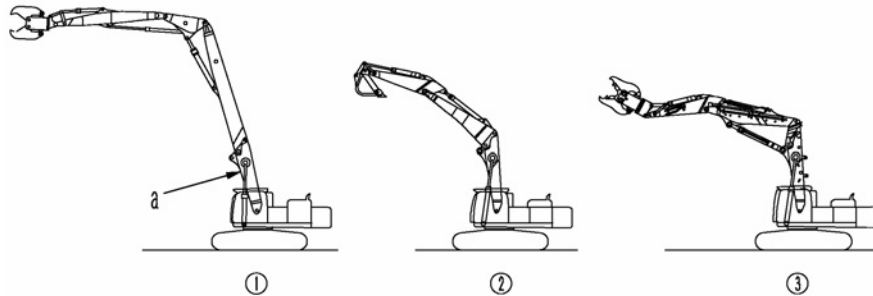
DEMOLITION

- There are several stages at the demolition works such as demolishing structures, taking out debris, leveling ground etc. which are required several machines at each process.
- The exchangeable fronts system can reduce the cost and time for demolition works. Three types of equipments are available by exchanging front equipment at one machine.
- Safety devices are equipped such as working range monitor, wide view front glass etc.

Demolition spec. outline

There are three kind of work equipment configuration.

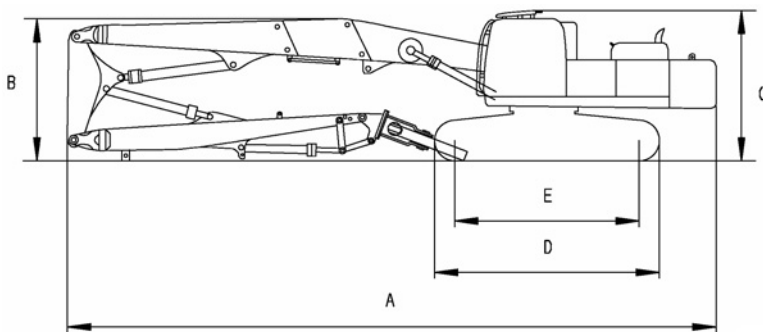
- (1) Hi-reach demolition spec.
- (2) Demolition excavation boom spec.
- (3) Demolition two-piece long front spec.



(a)'s first boom is a common for the above three configuration spec.

PC350LC Demolition spec.

		Hi-reach demolition spec.	Demolition excavation boom spec.	Demolition two-piece long front spec.	
Operating weight	kg (lb)	41,300 (91,050)	35,700 (78,700)	41,700 (91,930)	
Max. attachment weight	kg (lb)	2,300 (5,070)	—	3,600 (7,940)	
Bucket capacity	m ³ (cu.yd)	—	1.4 (1.83)	1.4 (1.83)	
A	Overall length	mm (ft.in)	14,980 (49'2")	12,120 (39'9")	14,350 (47'1")
B	Overall height	mm (ft.in)	3,340 (10'11")	3,565 (11'8")	3,565 (11'8")
C	Cab height	mm (ft.in)	3,140 (10'4")		
D	Track length	mm (ft.in)	4,960 (16'3")		
E	Tumbler distance	mm (ft.in)	4,030 (13'3")		
Overall width		mm (ft.in)	3,200 (10'6")		
Shoe width		mm (in)	600 (24")		
Ground clearance		mm (ft.in)	500 (1'8")		

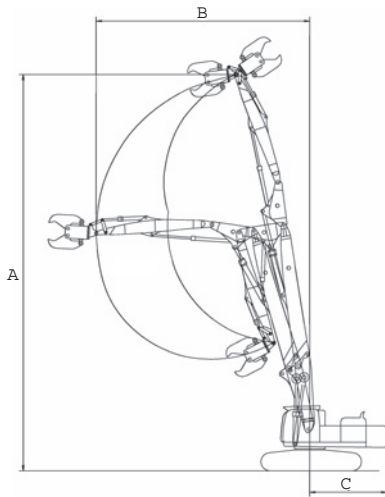


Specifications Demolition High Reach

DEMOLITION

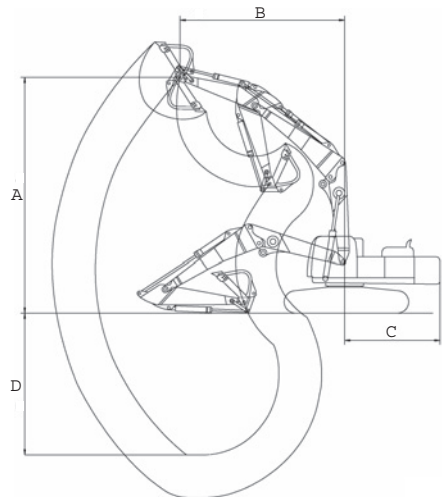
PC350LC Demolition spec.

Hi-reach demolition spec.



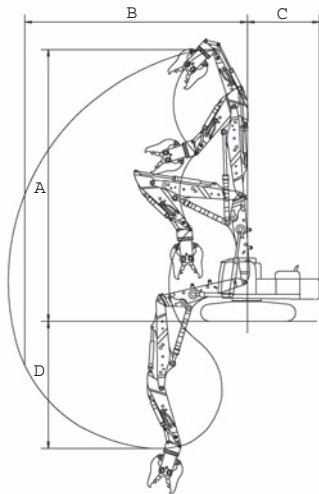
A	Max. working height	mm (ft.in)	20,510 (67'3")
B	Max. forward reach	mm (ft.in)	11,000 (36'1")
C	Turning radius at rear portion	mm (ft.in)	3,800 (12'6")
D	Max. digging depth	mm (ft.in)	—

Demolition excavation boom spec.



A	Max. working height	mm (ft.in)	10,540 (34'7")
B	Max. forward reach	mm (ft.in)	6,710 (22'0")
C	Turning radius at rear portion	mm (ft.in)	4,435 (14'7")
D	Max. digging depth	mm (ft.in)	7,410 (24'4")

Demolition two-piece long front spec.



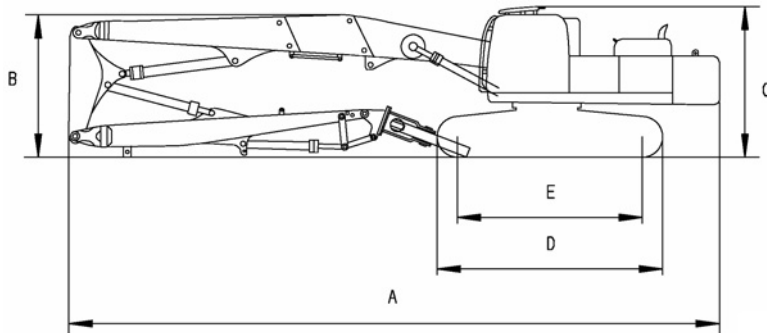
A	Max. working height	mm (ft.in)	14,380 (47'2")
B	Max. forward reach	mm (ft.in)	9,000 (29'6")
C	Turning radius at rear portion	mm (ft.in)	3,230 (10'7")
D	Max. digging depth	mm (ft.in)	6,750 (22'2")

Specifications Demolition High Reach

DEMOLITION

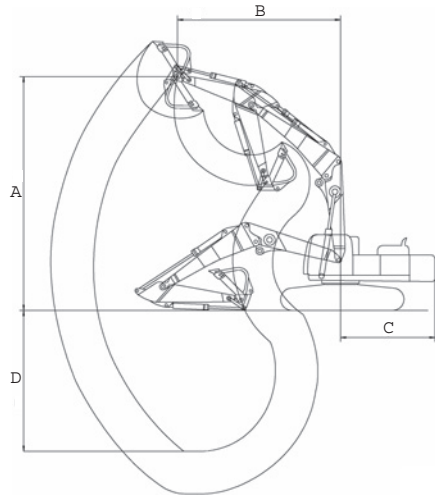
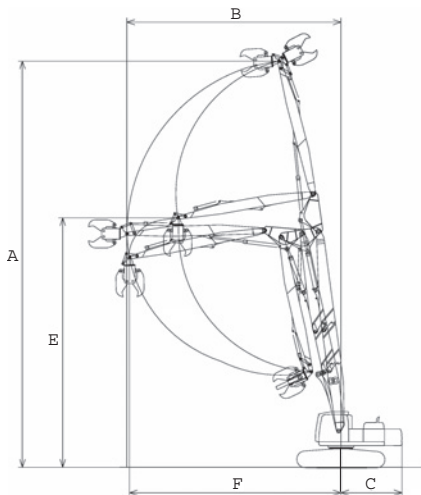
PC450LC Demolition spec.

		Hi-reach demolition spec.	Demolition excavation boom spec.	Demolition two-piece long front spec.
Operating weight	kg (lb)	57,220 (126,150)	54,300 (119,710)	60,520 (133,420)
Max. attachment weight	kg (lb)	2,300 (5,070)	—	5,700 (12,570) or 4,200 (9,260)
Bucket capacity	m ³ (cu.yd)	—	1.9 (2.49)	1.9 (2.49)
A	Overall length	mm (ft.in)	16,450 (54'0")	12,700 (41'8")
B	Overall height	mm (ft.in)	3,450 (11'4")	3,755 (12'4")
C	Cab height	mm (ft.in)	3,450 (11'4")	
D	Track length	mm (ft.in)	5,385 (17'8")	
E	Tumbler distance	mm (ft.in)	4,350 (14'3")	
Overall width		mm (ft.in)	3,490 (11'5")	
Shoe width		mm (in)	600 (24")	
Ground clearance		mm (ft.in)	685 (2'3")	



Hi-reach demolition spec.

Demolition excavation boom spec.



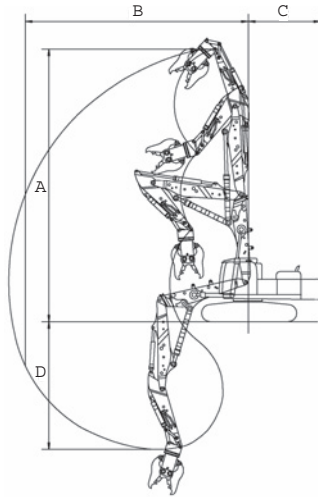
		Hi-reach demolition spec.	Demolition excavation boom spec.
A	Max. working height	mm (ft.in)	24,660 (80'11")
B	Max. forward reach	mm (ft.in)	13,000 (42'8")
C	Turning radius at rear portion	mm (ft.in)	3,710 (12'2")
D	Max. digging depth	mm (ft.in)	—
E	Max. working height at possible horizontal crashing	mm (ft.in)	15,128 (49'8")
F	Max. forward reach at possible horizontal crashing	mm (ft.in)	12,838 (42'1")

Specifications Demolition High Reach

DEMOLITION

PC450LC Demolition spec.

Demolition two-piece long front spec.



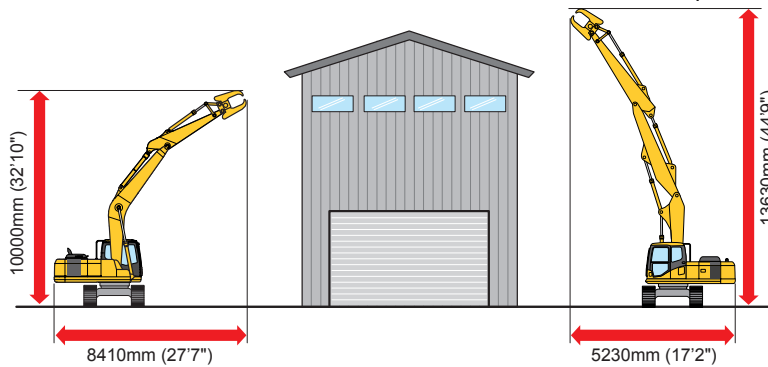
A	Max. working height	mm (ft.in)	15,150 (49'8")
B	Max. forward reach	mm (ft.in)	9,000 (29'6")
C	Turning radius at rear portion	mm (ft.in)	3,710 (12'2")
D	Max. digging depth	mm (ft.in)	6,910 (22'8")
E	Max. working height at possible horizontal crashing	mm (ft.in)	15,145 (49'8")
F	Max. forward reach at possible horizontal crashing	mm (ft.in)	9,000 (29'6")

- The demolition two piece boom now realizes a higher, wider and longer working range.
- It has also made possible demolition work comparable to a one-class larger machine in a tight quarter.
- It demonstrates power when demolishing low-rise to mid-rise building now that it can access closer to a building to be demolished.
- The base machine is designed for demolition work. Various critical parts and work equipment have been strengthened to ensure higher durability. Thus it demonstrates excellent performance in the hard working conditions.

The two piece boom enables an operator to reach a higher work point.

- PC200LC demolition specifications

- PC200LC demolition specifications with 2 piece boom



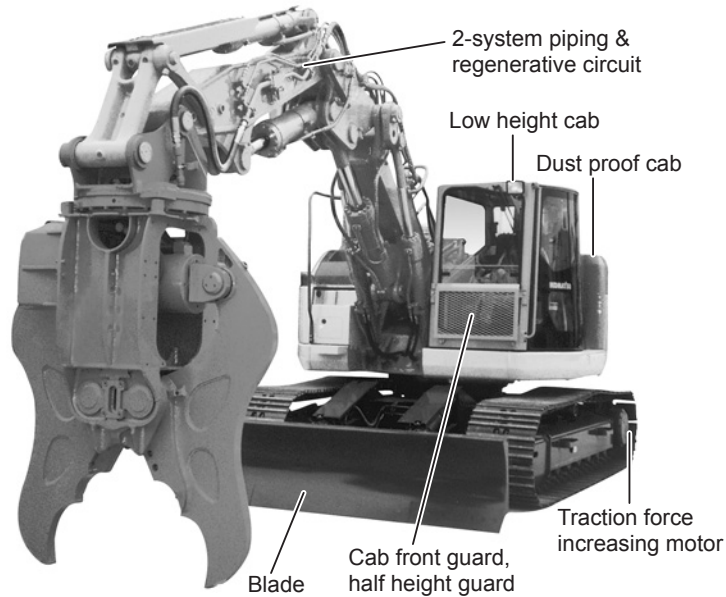
Tow piece boom spec.

		PC78US	PC138US	PC200LC
Operating weight	kg (lb)	8,390 (18,500)	15,675 (34,560)	27,900 (61,510)
Max. attachment weight	kg (lb)	560 (1,230)	1,000 (2,200)	2,300 (5,070)
Bucket capacity	m ³ (cu.yd)	0.28 (0.37)	0.5 (0.65)	0.8 (1.05)

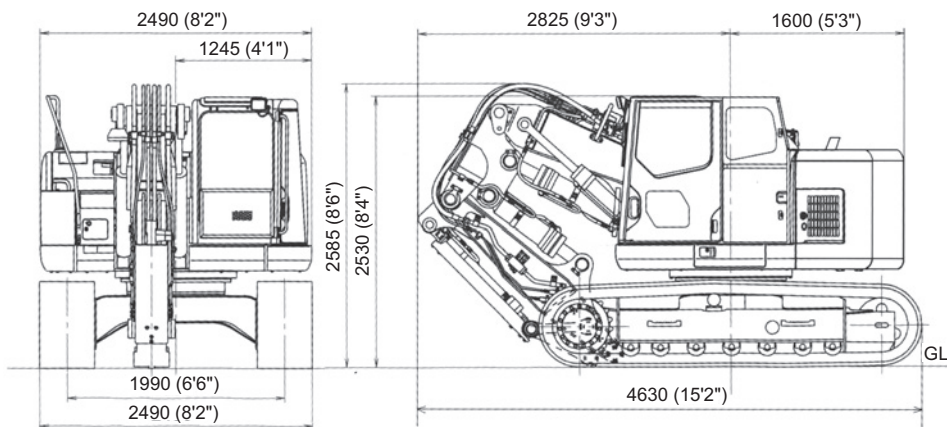
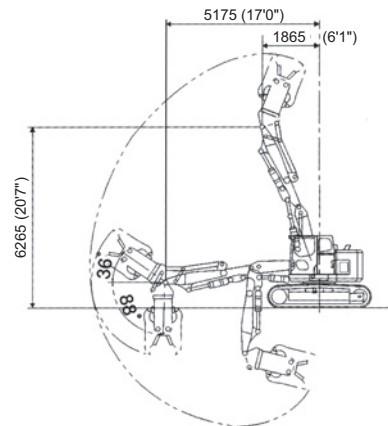
Attachment Features and Specifications Underground Demolition Specifications

DEMOLITION

- A breaker and crusher for a one-class larger machine (PC200 class) can be installed.
- A regenerative circuit assures a hydraulic oil amount equal to that for one-class larger machine (PC200 class) in the crushing work.
- A two piece boom is adopted.
- A low height cab is installed, allowing the machine to pass under 2,530 m (8'4") high beam.
- Ring hooks for lifting the machine are installed as a standard equipment.



Model		PC138US
Item	kg (lb)	15000 (33,070)
Machine weight	kg (lb)	15000 (33,070)
Max. crusher weight	kg (lb)	2300 (5,070)



SECTION **2H**

**SCRAP & MATERIAL
HANDLING**

CONTENTS

Attachments for Industry:

- Scrap Handling Machine 2H-2**
- High-mount Cab 2H-4**
- Lifting Magnet 2H-5**
- Car Scrap Handler 2H-5**
- Scrap Grapple 2H-5**
- Orange Grapple 2H-5**
- Magnet Fork 2H-5**

Scrap Handling Machine

Long Boom and Gooseneck Arm

- Mounted on the machine body these give you increased working height-and safe, easy loading and unloading at those heights. The extended working range pays off in greater scrap-handling efficiency.

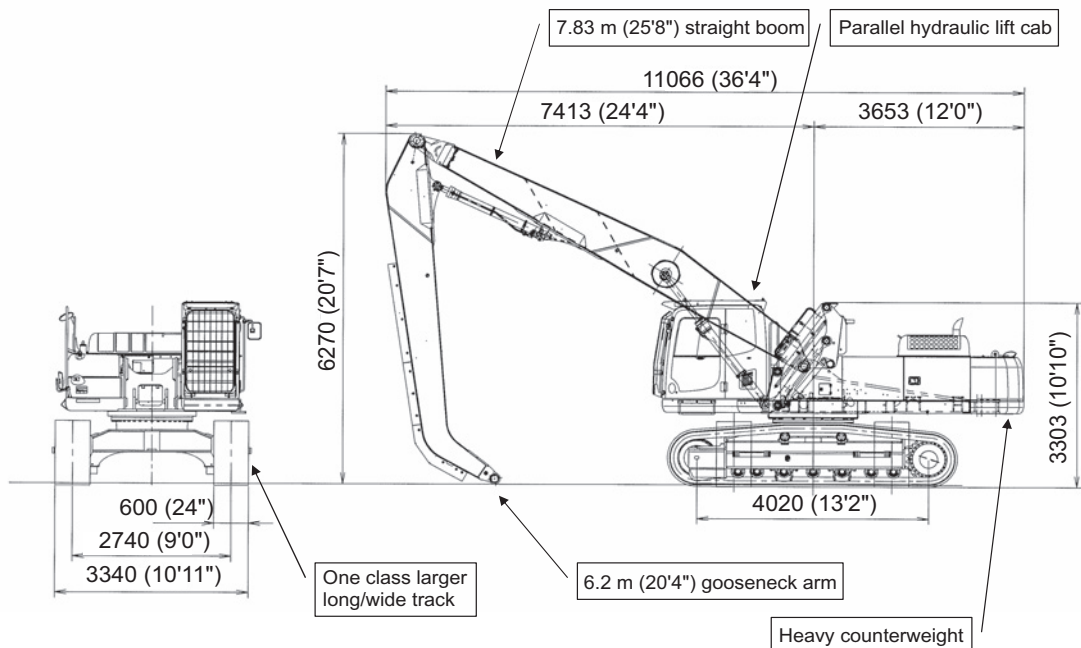
The Komatsu Scrap Handling Machine consists of:

- Basic Machine (See catalog for standard machines.)
- Scrap-handling long boom and gooseneck arm
- Grapple hydraulics
- Boom cylinder hydraulic line and drift-prevention valve
- Bolt-on additional counterweight
- Optional high-mount cabs (fixed, with ladder, or hydraulic elevator)
- Optional widened track gauge: For enhanced lateral stability, we can customize the basic machine's track gauge.



Dimensions & Working range

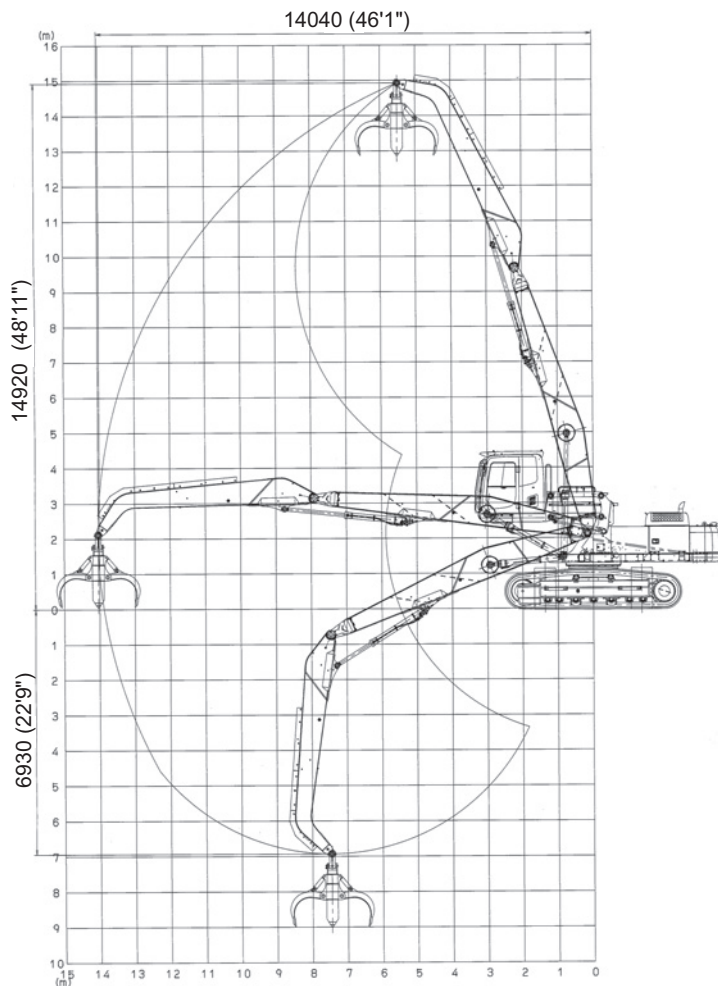
PC300 14 m (46') reach with hydraulic lift cab



Scrap Handling Machine

PC300 14m (46') reach spec with hydraulic lift cab

Working range

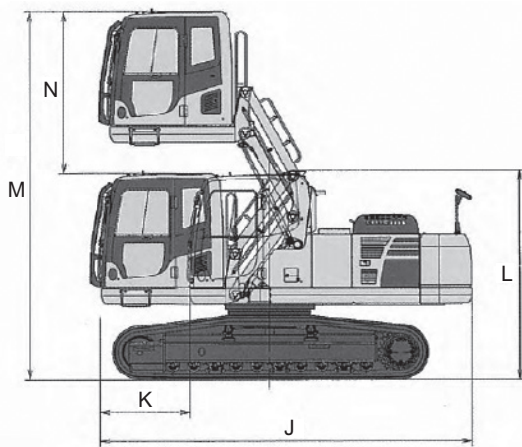


Model		PC300
Boom length	m (ft.in)	7.83 (25'8")
Arm length	m (ft.in)	6.2 (20'8")
Max. reach, at arm end pin	m (ft.in)	14.04 (46'1")
Max. height, at arm end pin	m (ft.in)	14.92 (48'11")
Max. digging depth, at arm end pin	m (ft.in)	6.93 (22'9")

High-mount Cab

A high-mount cab provides the operator with wider and clearer field view, thus facilitating loading or unloading of scrap on or off a truck and charging or discharging into or out of scrap processing machines. The hydraulic elevating cab lowered ensures better transportability.

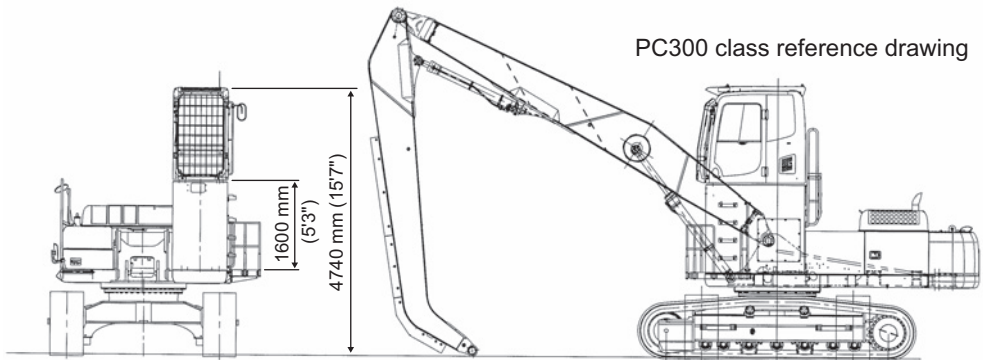
Parallel link cab



Dimension

	Model	PC200	PC220	PC300	
J	Overall length	mm (ft.in)	5,485 (18'0")	5,485 (18'0")	6,310 (20'8")
K	Cab protruding amount [compared with std cab]	mm (ft.in)	1,310 (4'4")	1,310 (4'4")	1,310 (4'4")
L	Height at cab lowest position	mm (ft.in)	3,075 (10'1")	3,085 (10'1")	3,195 (10'6")
M	Height at cab fully raised	mm (ft.in)	5,430 (17'10")	5,440 (17'10")	5,540 (18'2")
N	Lift height	mm (ft.in)	2,400 (7'10")	2,400 (7'10")	2,400 (7'10")

Fixed hi-cab (1.6 m (5'3") height)



Lifting Magnet

- Lifting magnet with strong attraction force by over-excitation and swift release by reverse excitation.
- Engine-driven brushless alternator, realizing a maintenance free operation.



PC200LC
Wide shoe: option

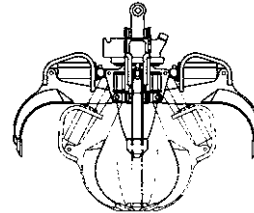
Car Scrap Handler

- With one car scrap handler, preparation, dismantling, and sorting work can be carried out speedily!
The combination play between a state-of-the-art machine and a clamp arm makes delicate removal operations possible!
- Powerful clamp arm! The clamp arm installed to the track frame can hold the scrapped car securely, so picking-up work can be carried out efficiently and smoothly.



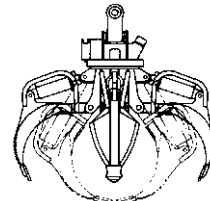
Scrap Grapple

To assure safe handling of massive or irregularly shaped scrap, each of the 4 claws opens and closes by independent hydraulic cylinders. The grapple rotates freely to make grappling readjustments safe and easy.



Orange Grapple

The claws are 4 vane-shaped blades operated independently by hydraulic cylinders. The freely turn-able grapple surrounds the scrap material; grasps accurately, and keeps small-item spillage to a minimum.



Magnet Fork

An excavator-based machine with a lifting magnet and fork device exhibits the best operating performance in scrap handlings by itself through the combination of both the MAGNET absorbing and FORK grapple forces, thus enabling great improvement of working efficiency, because materials to be handled can be freely selected.



SECTION **2J**

SPECIAL APPLICATION MACHINES

CONTENTS

Inboard Work Specifications	2J-2
Barge-ship Work Specifications	
Backhoe Dredger	2J-3
Heat Resistance Specifications	2J-4
Forest Industries	
Swing Yarder	2J-5

Inboard Work Specifications

PC138US Inboard work spec.

- (1) Wide working range can speedy inboard work at vessel corner and high position work.
- (2) Short tail swing type can meet with tight working conditions.



20% large fuel tank capacity for long refill interval

Head guard



Four additional working light



Engine room cover for preventive chip and dust intake



Strengthened arm and link

Large capacity chip bucket

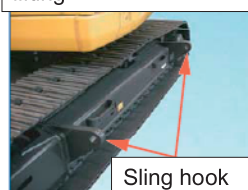
Holed shoe for preventive chip stack



Spiked carrier roller for chip removal from track link



Hook for machine lifting



Sling hook



Photo shown PC138US-2 former model

Backhoe Dredger

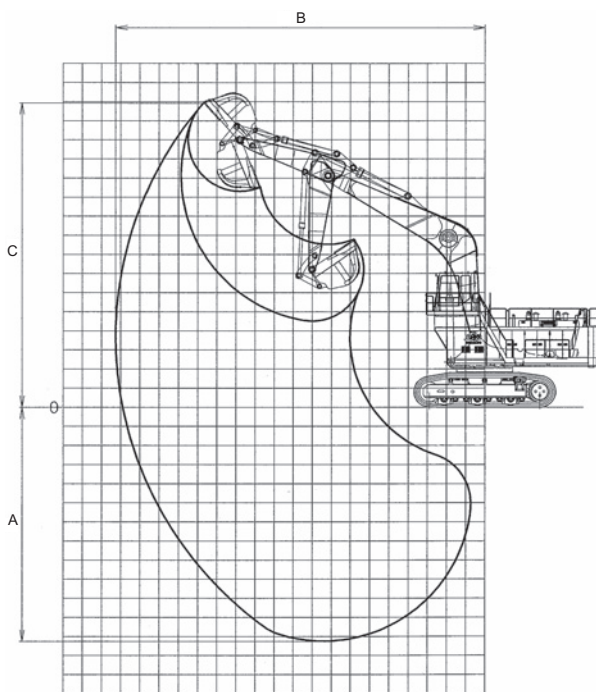
An excavator based machine with BACK-HOE TYPE SPECS mounted on a vessel exhibits its best operating performance in large-scaled ocean works such as filling-up reclamation to build a land, adjustment or enlargement of harbors and demolition or rehabilitation of breakwaters. As for mounting method, besides an excavator type with undercarriages, two methods (gantry- and fixed-type) are provided.

The work in a salty environment is necessary to prevent corrosion of parts.

Antit-corrosion arrangement is also available.



Specifications



Working Range

		PC600	PC800LC		PC1250	
Boom length	m (ft.in)	7.66 (25'2")	8.2 (26'11")	10 (32'10")	9.1 (29'10")	11 (36'1")
Arm length	m (ft.in)	5.2 (17'1")	5.6 (18'4")	5.6 (18'4")	5.7 (18'8")	5.7 (18'8")
Bucket capacity (SAE) *Rock bucket, Heaped	m ³ (cu.yd)	2.0 (2.6)	2.8 (3.7)	2.0 (2.6)	3.4 (4.4)	2.8 (3.7)
A Max. digging depth	mm (ft.in)	10,225 (33'7")	10,595 (34'9")	12,170 (39'11")	11,590 (38'0")	12,380 (40'7")
B Max. digging reach	mm (ft.in)	14,630 (48'0")	15,635 (51'4")	17,505 (57'5")	17,450 (57'3")	18,930 (62'1")
C Max. digging height	mm (ft.in)	12,560 (41'2")	12,690 (41'8")	13,970 (45'10")	13,910 (45'8")	15,810 (51'10")
Min. work equipment swing radius	mm (ft.in)	5,510 (18'1")	6,145 (20'2")	7,575 (24'10")	8,150 (26'9")	9,000 (29'6")

* : Material weight up to 1.8t/m³ (3,000 lb/cu.yd)

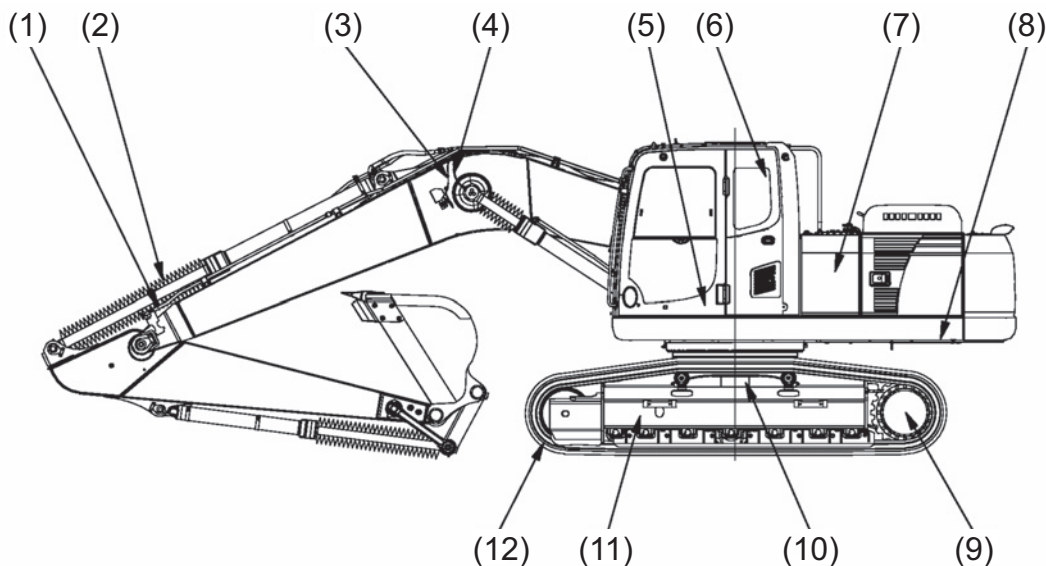
Sand & Gravel bucket and Soft clay bucket etc. is fitted depend on job conditions.

Heat Resistance Specifications

The works at a steel mill in a high temperature work place, typically a slag yard, is always fraught with various problems and danger like early deterioration and corrosion of parts and ignition

Heat resistance specification are developed to protect machine from those tough working condisions.

PC350 / PC450 Heat resistance specification



(1) Heat resistance type hydraulic hoses	(7) Heat resistance type fuel hoses
(2) Hydraulic cylinder rod protective cover (boom, arm and bucket)	(8) Revolving frame under guard
(3) Work lamp wiring harness protect by cover wound	(9) Travel motor hydraulic hoses (Heat resistance type)
(4) Heat resistance type greasing hose	(10) Track frame under guard
(5) Heat resistance hoses between boom and machine	(11) Heat resistance type roller's seal (idler, carrier, track rollers and final drive)
(6) Fire extinguisher (equipped inside and outside cab)	(12) Metal type shoe link seal

Swing Yarder

An excavator-based yarding machine with a winch, called SWING YARDER, features an excellent controllability and high mobility. It also ensures easy operation without requiring any sub-wire ropes and skylines, thus enabling great improvement of job efficiency in timber yarding.



OPTION: GRAPPLE IN PHOTO

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SECTION **3**

WHEEL LOADERS Sec 3A

WHEEL DOZERS Sec 3B

SECTION **3A**

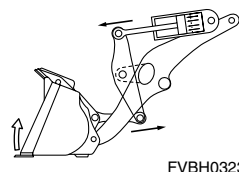
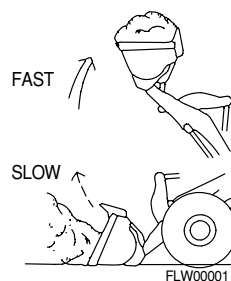
WHEEL LOADERS

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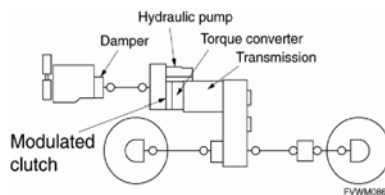
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■ **Excellent productivity**

- Dual hydraulic speed system to reduce cycle time (WA320-WA900, except WA320-3 CUSTOM, WA800-3)
- VOHS (Variable Output Hydraulic System) to reduce cycle time (WA1200)
- High capacity engine with power to spare
The powerful Komatsu engine provides fuel-efficient operation.
- High breakout force
Z-bar loader linkages are made of high-tensile-strength steel for maximum rigidity and powerful excavation.

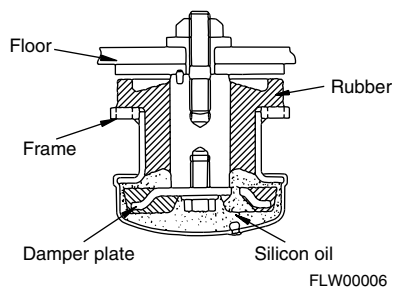
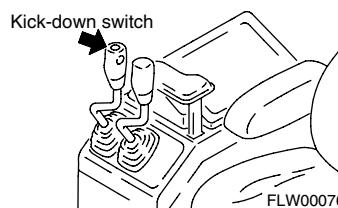
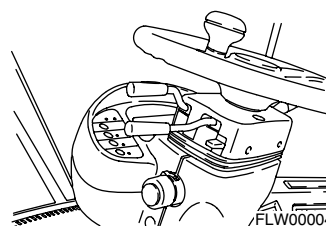


- Modulated clutch allows for selection of drive force and travel speed according to type of work. (WA1200)



■ **Easy & comfortable operation**

- Light-touch operations
Electrically controlled transmission enables light fingertip control of all direction/gear shifting.
- Use of PPC work equipment control valve
- Faster pile-penetration & scooping
Kick-down switch on the boom control lever facilitates material scooping operation.
- Tiltable steering column & one-glance monitor
Tiltable steering wheel and adjustable seat provide operator comfort and efficiency.
- Low vibration & noise
Komatsu viscous damping mounts reduce unpleasant vibration and noise.

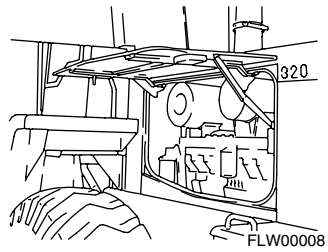


- Easy-to-use with organ-type brake pedal
- Switches centralized in front of operator
- Quick glow automatic preheating system employed
- AJSS (Advanced Joystick Steering System) with light, short strokes for perfect steering accuracy. (WA1200)

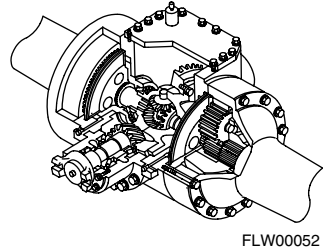


■ Easy maintenance and safety

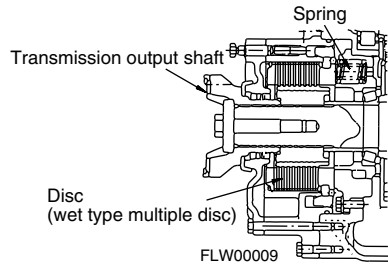
- Gull-wing type side cover
Gull-wing engine side covers facilitate engine access for easy check/replacement of engine oil or filters. (WA320-WA470)



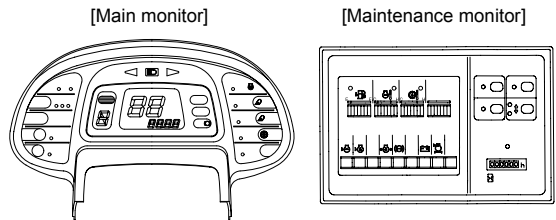
- Fully-sealed wet disc brake
Adjustment-free wet disc brakes ensure braking even on muddy terrain. They are sealed to stay free of dirt and other abrasive contaminants.



- Wet disc type parking brake
The parking brake prevents the entry of dirt or dust and reduced wear to make the parking brake maintenance free.

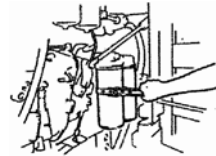


- Electric display panel one unit with steering column
The main monitor and the maintenance monitor (EDIMOS II) are neatly arranged on the instrument panel for a quick, clear reading of machine functions at all times.

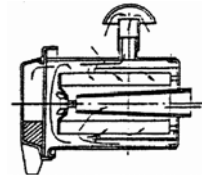


- TMS (Total Management System) & CGC (Color Graphic Console)
TMS connects each controller and sensor to the VHMS (Vehicle Health Monitoring System) controller and displays the condition and management information of the vehicle on the CGC. (WA1200)

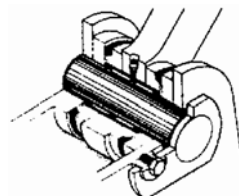
- Spin-on type full-flow engine oil filters and fuel filters for easy element replacement.



- Dry type air cleaner with automatic dust evacuator for longer element service.

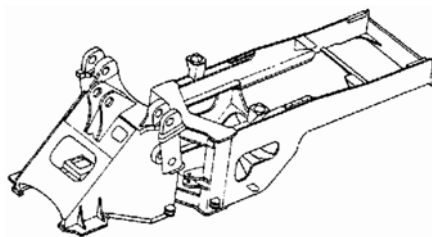


- Sealed loader linkage pins with dust seals and cord rings extend greasing intervals.

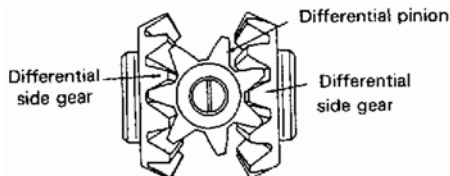


■ Dependable and high-performance components

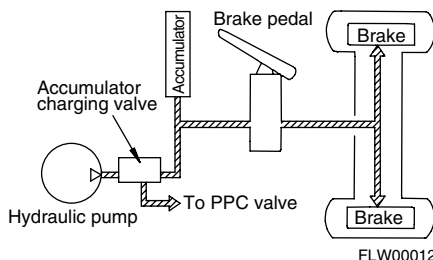
- High-rigidity frames
Front and rear frames are made as one larger loader class to provide high rigidity for the power train and loader equipment.
The high-rigidity frames, together with the reinforced loader linkage for resist loading stress and shock.



- Torque proportioning differential installed
Torque proportioning differentials minimize slippage, improve traction and increase the service life of tires. (WA320-WA470)

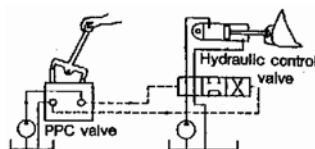


- Dependable braking system
Two independent fully hydraulic brake lines are used for the brake control system.



- High-quality paint
Most exterior plates are treated with a cation electro-deposition undercoat and melamine baked final paint for rust resistance and longer service life.
In addition, some exterior components employ resin.

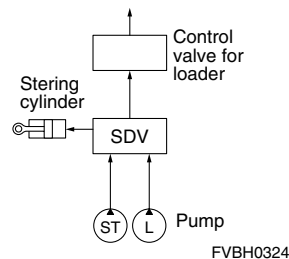
- Proportional pressure control (PPC): Little effort is required to operate the bucket and boom control levers, assuring smooth, responsive bucket/boom action.
[WA320 and over except WA320-3 CUSTOM]



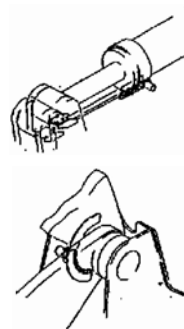
- Tiltable steering wheel and fully adjustable suspension seat provide maximum operator comfort.
[WA320 and over]



- Hydraulic power steering system guarantees light-touch steering at all times.
- High machine stability is assured by a center-pin-supported rear axle and large oscillation angle that keep the machine level even on the roughest surfaces.



- Automatic bucket positioner assures accurate bucket positioning.
- Boom kick out device facilitates repeated dig-load operations.
[WA320 and over]
- Tire saver controls tire slip and lengthens tire life.
[WA1200]



■ High productivity and low fuel consumption

• Dual-mode engine power select system

- This wheel loader offers two selectable operating modes-Normal and Power.
 - **E mode:** This mode provides maximum fuel efficiency for most of general loading.
 - **P mode:** This mode provides maximum power output for hard digging operation or hill climb.

(WA380-6, WA430-5(-6), WA470-5(-6), WA500-6 and WA600-6)

• Automatic transmission mode select system

This operator controlled system allows the operator to select manual shifting or three levels of automatic shifting (low, medium, and high).

(WA380-6, WA430-5(-6), WA470-5(-6), WA500-6 and WA600-6)

• New dual-speed hydraulic system

Komatsu's dual-speed hydraulic system increases operational efficiency by matching the hydraulic demands to work conditions.

(Except WA150 – WA320, WA380-6, WA500-6 and WA600-6)

• Maximum dumping clearance and reach

The long lift arms provide high dumping clearances and maximum dumping reach. The operator can even level loads on the body of a dump truck easily and efficiently.

• Long wheelbase/articulation angle of 40°

The widest tread in class and the long wheelbase provide improved machine stability in both longitudinal and lateral directions. Since the articulation angle is 40°, the operator can work efficiently even in the tightest job sites.

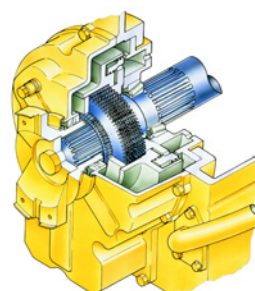
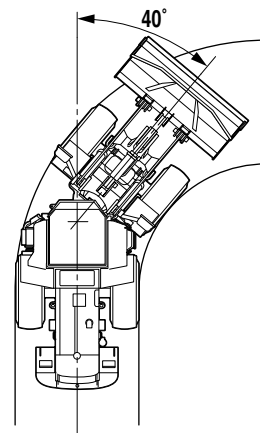
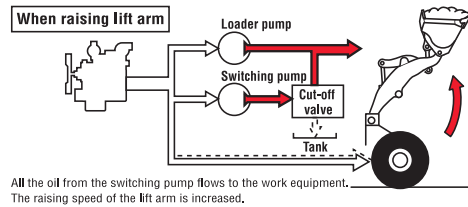
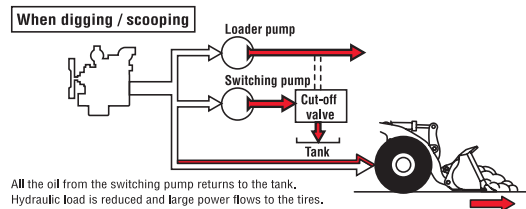
• Low fuel consumption

The fuel consumption is reduced greatly because of the low-noise, high-torque engine and the large-capacity torque converter with maximum efficiency in the low-speed range.

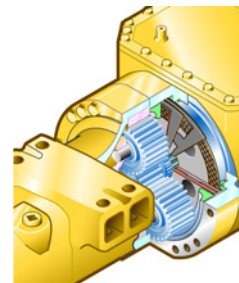
■ Increased reliability

- **Wet multi-disc brakes and fully hydraulic braking system** mean lower maintenance costs and higher reliability. Wet disc brakes are fully sealed. Contaminants are kept out, reducing wear and resulting maintenance.

Brakes require no adjustments for wear, meaning even lower maintenance. The new parking brake is also an adjustment-free, wet multi-disc for high reliability and long life.



Wet multi-disc brake



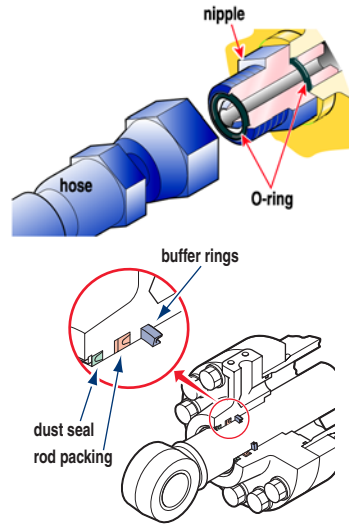
Wet type disc parking brake

- **Hi-rigidity frames**

The front and rear frames have high rigidity to bear twisting and bending loads applied repeatedly to the loader body.

- **Flat face-to-face O-ring seals**

Flat face-to-face O-ring seals are used to securely seal all hydraulic hose connections and to prevent oil leakage. In addition, buffer rings are installed to the head side of the all-hydraulic cylinders to lower the load on the rod seals and maximize the reliability.



- **Komatsu components**

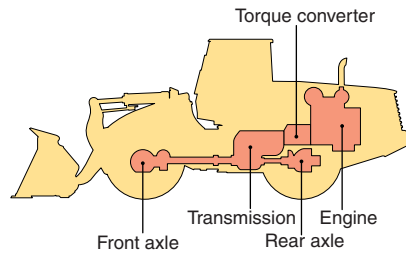
Komatsu manufactures the engine, torque converter, transmission, hydraulic units, electric parts, and even each bolt on this wheel loader.

- **Cathion Electrodeposition primer paint/ powder coating final paint**

Cathion electrodeposition paint is applied as a primer paint and powder coating is applied as topcoat to the exterior metal sheet parts.

- **Sealed DT connectors**

Main harnesses and controller connectors are equipped with sealed DT connectors providing high reliability, water resistance and dust resistance.



- **Easy maintenance**

- **EMMS (Equipment Management Monitoring System)**

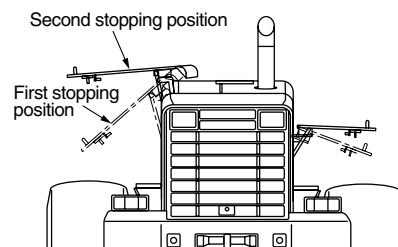
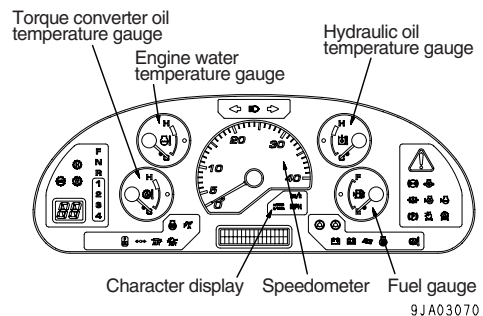
Monitor is mounted in front of the operator for easy view, allowing the operator to easily check gauges and warning lights.

- **Reversible cooling fan and swing-out cooler elements**

If the machine is operating in adverse conditions, the operator can reserve the hydraulic cooling fan from inside the cab by turning on a switch on the control panel.

- **Gull-wing type engine side doors open wide**

The operator can open and close each gull-wing type engine side door easily with the assistance of a gas spring to perform daily service checks from the ground.



FVW00925

■ Easy & comfortable operation

• Automatic transmission with ECMV

Automatic transmission with ECMV automatically selects the proper gear speed based on travel speed, engine speed, and other travel conditions. The ECMV (Electronically Controlled Modulation Valve) system engages the clutch smoothly to prevent lags and shocks when shifting. This system provides efficient machine operation and a comfortable ride.

• Kick-down switch

With the touch of a finger, the kick-down switch automatically down shifts from second to first when beginning the digging cycle.

• Electronically controlled transmission lever

Easy shifting and directional changes with Komatsu two-lever electronic shifting. Change direction or shift gears with a touch of the fingers without removing the shifting hand from the steering wheel.

• Variable transmission cut-off

The operator can adjust the transmission cut-off connected to the left brake pedal with the switch near the operator's seat to set the brake/cut-off point for easier operation and higher operating performance in variable operating conditions.

- High cut-off pressure for digging operations.
- Low cut-off pressure for truck-loading operations.

• Fingertip work equipment control lever

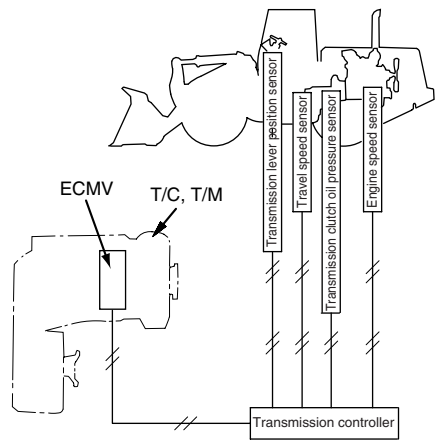
New PPC control levers are used for the work equipment. The operator can easily operate the work equipment with fingertip control, reducing operator fatigue and increasing controllability.

• Low-noise design

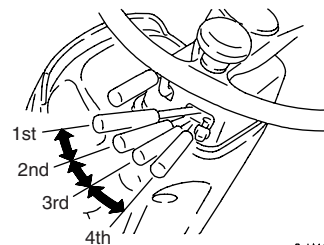
The large cab is mounted with Komatsu's unique ROPS/FOPS viscous mounts. The low-noise engine, hydraulically driven fan, and hydraulic pumps are mounted with rubber cushions, and the cab sealing is improved to provide a quiet, low-vibration, dustproof with pressurizing, and comfortable operating environment.

• Rear-hinged full open cab door

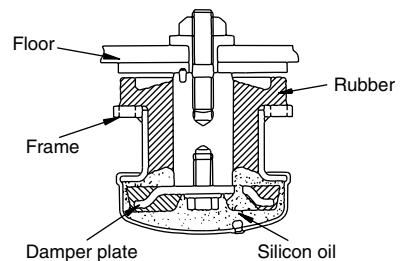
The cab door hinges are installed to the rear side of the cab providing a large opening angle for the operator to enter and exit.



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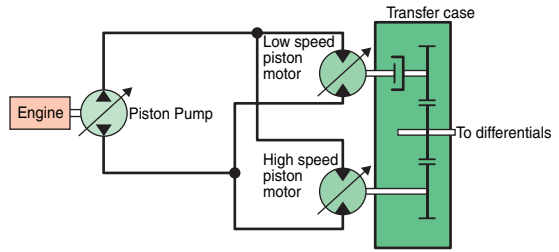


FLW00006

■ **Electronically-Controlled HST Using a 1-Pump, 2-Motor System**

- The 1-pump, 2-motor system allows for high-efficiency and high tractive effort. Engine power is transmitted hydraulically to transfer case, then manually out to the differentials and out to the four driving wheels.
- HST provides quick travel response and aggressive drive into the pile. The variable displacement system automatically adjusts to the tractive effort demand to provide maximum power and efficiency.
- Full auto-shifting eliminates any gear shifting and kick-down operation to allow the operator to concentrate on digging and loading.
- When high drive torque is needed for digging, climbing or initiating movement, the pump feeds both motors. This combination makes the loader very aggressive and quick.
- Under deceleration, the HST system acts as a dynamic brake on the mechanical drive system. The dynamic brake can hold the loader in position on most workable slopes. This can be an advantage in stockpiling and ramp loading.

(WA150, WA200/PT, WA250/PT, WA320)



- As the machine moves and gains ground speed, the torque demand decreases and the low speed motor is effectively removed from the drive system by a clutch. At this point, the flow is going to the high-speed motor and the low-speed motor is not causing a drag on the system.
- An inching pedal gives the operator excellent simultaneous control of his travel and equipment hydraulic speeds. By depressing the inching pedal, drive pump flow to the motors will decrease, reducing ground speed and allowing the operator to use his accelerator to increase flow to his equipment hydraulics. Depressing the inching pedal further will activate the service brakes.

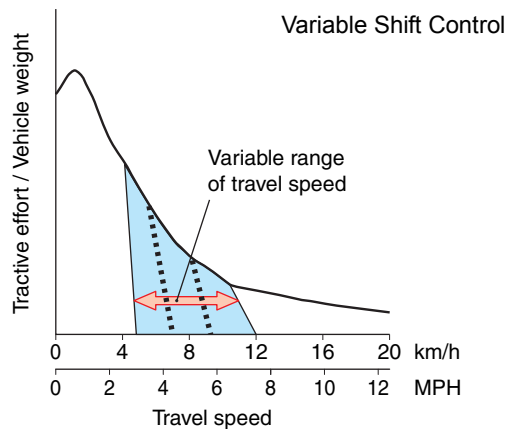
■ **Electronically-Controlled HST with Variable Shift Control System**

The operator can choose between first, second, third or fourth maximum speeds by dialing the speed range selector switch.

The variable shift switch allows the operator to adjust his machine speed in confined v-loading applications.



(WA150, WA200/PT, WA250/PT, WA320)

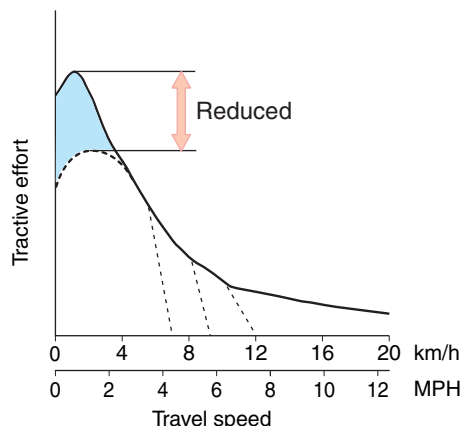


■ Traction Control System

In limited traction situations where the operator would like to avoid tire slippage (such as sandy or wet surface operations), he can automatically reduce slippage by activating the traction control feature. Putting the traction control switch in the "ON" position limits the maximum amount of tractive effort.



(WA150, WA200/PT, WA250/PT, WA320-5(-6))



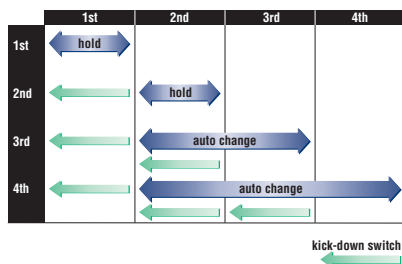
■ Overrun Prevention System

When the machine descends a slope of six degrees or less, maximum travel speed is automatically restricted to specified speed, for safety protection against damage of power train components and brakes by sensing the travel speed and controlling the discharge amount of the HST pump and motor. When the machine descends a steep slope and the travel speed reaches specified speed, the caution lamp lights up to inform the operator to reduce the travel speed.

(WA150, WA200/PT, WA250/PT, WA320-5(-6))

■ Automatic Transmission with ECMV

Automatic transmission with ECMV automatically selects the proper gear speed based on travel speed, engine speed, and other travel conditions. The ECMV (Electronically Controlled Modulation Valve) system engages the clutch smoothly to prevent lags and shocks when shifting. This system provides efficient machine operation and a comfortable ride.



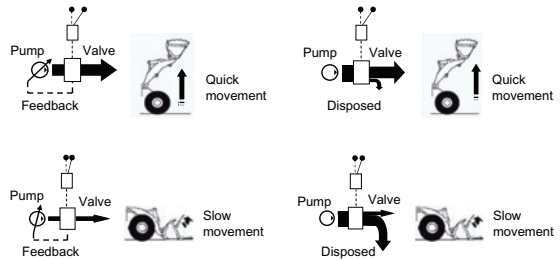
- Kick-down switch: Consider this valuable feature for added productivity. With the touch of a finger, the kick-down switch automatically downshifts from second to first when beginning the digging cycle. It automatically up shifts from first to second when the direction control lever is placed in reverse. This results in increased rim pull for better bucket penetration and reduced cycle times for higher productivity.
- Hold switch: Auto shift is selected and if the operator turns on this switch when the lever is at the 3rd or 4th gear speed position, the transmission is fixed to that gear speed.

(WA380-6, WA430-5(-6), WA470-5(-6), WA480-5(-6), WA500-6, WA600-6)

■ Variable displacement piston pump & CLSS

New design variable displacement piston pump combined with the Closed-center Load Sensing System delivers hydraulic flow just as the job requires preventing wasted hydraulic pressure. Minimized waste loss contributes to better fuel economy.

- **New Variable Displacement Piston Pump:** The pump delivers only necessary amounts minimizing waste loss.
- **Fixed Displacement Piston Pump:** The pump delivers the maximum amount at any time and the unused flow is disposed.

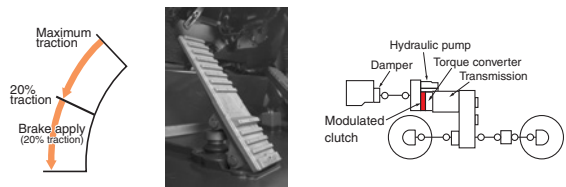


(WA380-6 through WA600-6)

■ Modulated Clutch System

The Modulated Clutch System controls the tractive effort with left brake pedal from 100% to 20% of the converter output torque.

(WA600-6)



■ Lock-up Torque Converter

The Komatsu designed lock-up torque converter provides increased production efficiency, reduced cycle times and optimum fuel savings in load & carry or hill-climb operations.

(WA600-6, option for WA500-6)

■ Ecology Features

ecot 3 (EPA Tier 3, EU Stage 3A certified engine)

Komatsu develops and produces all major components, such as engines, electronics and hydraulic components in house.

With this "Komatsu Technology", and adding customer feedback, Komatsu is achieving great advancements in technology.

To achieve high levels of productivity and ecology, Komatsu developed the main components with an advanced control system.

The result is a new generation of high performance and environment friendly machines.

(WA200-6 through WA600-6)

■ Variable Transmission Cut-off

The operator can adjust the transmission cut-off connected to the left brake pedal with the switch near the operator's seat to set the brake/cut-off point for easier operation and higher operating performance in variable operating conditions.

- High cut-off pressure for digging operations.
- Low cut-off pressure for truck-loading operations.

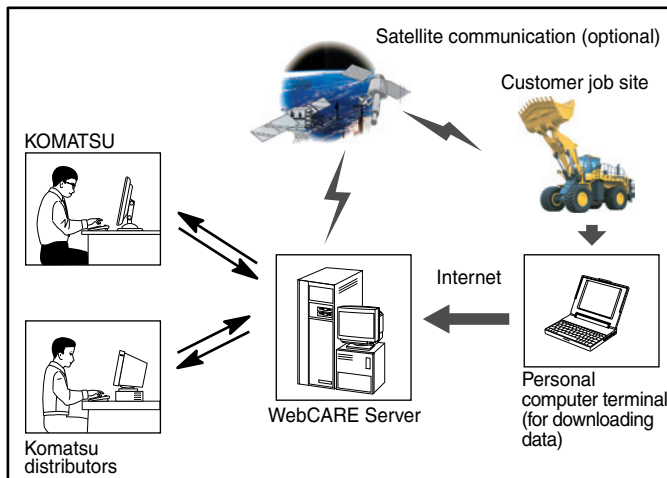
(WA380-6, WA430-5, WA470-5, WA480-5, A500-6)

■ Fuel efficient electronic controlled engine

The engine is EPA Tier 3 and EU Stage 3A emission regulation certified. The engine is turbocharged and features Common Rail Injection system and air-to-air aftercooling to maximize power, fuel efficiency and emission compliance. To minimize noise and vibration, the engine is mounted to the main frame with rubber cushions.

VHMS (Vehicle Health Monitoring System) (Option for WA600-6)

VHMS controller monitors the health conditions of major components, enables remote analysis of the machine and its operation. This process is supported by the Komatsu distributors, factory and design team. This contributes to reduced repair costs and to maintaining maximum availability.



■ Merits of Using VHMS

Diagnosis

- Machine health information that used to take approximately 1 hour to be measured can now be downloaded by personal computer in approximately 10 minutes, shortening the vehicle's down time.
- Furthermore, if the satellite communications function is equipped, the machine information can be gathered without stopping the vehicle at all. (Not available in some regions.)

Recommendation

- An appropriate recommendation can be made by viewing these data over the Internet.
 - Proper driving methods
 - Formulation of maintenance plans in advance that suit the customer's production schedule.

Customer's Benefit

- Sudden break down can be prevented through utilization of data trend (change over time).
- Ascertaining the facts and searching for the cause of the breakdown are simplified, thus enabling problems to be resolved quickly.
- Down time can be shortened by the systematic use of Reman components.
- Machine life can be extended significantly by proper operation and proper maintenance.

1. Japan sourced models

Item	Model	•WA50-6	WA120-3	WA150-5	•WA150-6
OPERATING WEIGHT*	kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	29.7 (39.8)/2400 28.7 (38.6)/2400	63 (85)/2400	71 (96)/2000	74 (99)/2200 73 (98)/2200 71 (95)/2200
BUCKET CAPACITY*	m ³ (cu.yd)				
PERFORMANCE: Travel speeds:	km/h (MPH)				
Forward 1st		0-15.0 (9.3)	7.2 (4.5)	4.6-13.0 (2.9-8.1)**	5.3-13.0 (3.3-8.1)**
2nd			13.6 (8.5)	13.0 (8.1)	13.0 (8.1)
3rd			34.5 (21.4)	20.0 (12.4)	22.4 (13.9)
4th				38.0 (23.6)	36.2 (22.5)
Reverse 1st		0-15.0 (9.3)	7.5 (4.7)	4.6-13.0 (2.9-8.1)**	5.3-13.0 (3.3-8.1)**
2nd			14.0 (8.7)	13.0 (8.1)	13.0 (8.1)
3rd			35.0 (21.7)	20.0 (12.4)	22.4 (13.9)
4th				38.0 (23.6)	36.2 (22.5)
Turning radius* (Outside corner of bucket)	mm (ft.in)				
Articulation angle (each)	degree	40	40	40	40
DIMENSIONS*:	mm (ft.in)				
ENGINE: Model		KOMATSU 4D88E-6B	KOMATSU S4D102E	KOMATSU SAA4D102E-2	KOMATSU SAA4D95LE-5
No. of cylinders- bore × stroke	mm (in)	4-88 × 90 (3.46 × 3.54)	4-102 × 120 (4.0 × 4.7)	4-102 × 120 (4.02 × 4.72)	4-95 × 115 (3.74 × 4.53)
Piston displacement	ltr. (cu.in)	2.189 (135)	3.92 (239)	3.92 (239)	3.76 (199)
CAPACITY: Fuel tank	ltr. (U.S. Gal)	50 (13.2)	133 (35.1)	133 (35.1)	133 (35.1)

Item	Model	WA180-3	•WA200-6	WA200-5	•WA200PZ-6
OPERATING WEIGHT*	kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	82 (110)/2400	95.2 (128)/2000 94 (126)/2000 91 (122)/2000	92 (123)/2000	95.2 (128)/2000 94 (126)/2000
BUCKET CAPACITY*	m ³ (cu.yd)				
PERFORMANCE: Travel speeds:	km/h (MPH)				
Forward 1st		7.2 (4.5)	4.0-13.0 (2.5-8.1)**	4.0-13.0 (2.5-8.1)**	4.4-14.3 (2.7-8.9)**
2nd		12.0 (7.5)	13.0 (8.1)	13.0 (8.1)	14.3 (8.9)
3rd		22.0 (13.7)	20.0 (12.4)	20.0 (12.4)	22.0 (13.7)
4th		34.5 (21.4)	34.5 (21.4)	34.5 (21.4)	38.0 (23.6)
Reverse 1st		7.7 (4.8)	4.4-14.3 (2.7-8.9)**	4.0-13.0 (2.5-8.1)**	4.4-14.3 (2.7-8.9)**
2nd		12.6 (7.8)	14.3 (8.9)	13.0 (8.1)	14.3 (8.9)
3rd		22.9 (14.2)	22.0 (13.7)	20.0 (12.4)	22.0 (13.7)
4th		35.0 (21.7)	38.0 (23.6)	34.5 (21.4)	38.0 (23.6)
Turning radius* (Outside corner of bucket)	mm (ft.in)				
Articulation angle (each)	degree	40	40	40	40
DIMENSIONS*:	mm (ft.in)				
ENGINE: Model		KOMATSU S6D102E	KOMATSU SAA4D107E-1	KOMATSU SAA6D102E-2	KOMATSU SAA4D107E-1
No. of cylinders- bore × stroke	mm (in)	6-102 × 120 (4.0 × 4.7)	4-107 × 124 (4.21 × 4.88)	6-102 × 120 (4.02 × 4.72)	4-107 × 124 (4.21 × 4.88)
Piston displacement	ltr. (cu.in)	5.88 (359)	4.46 (272)	5.88 (359)	4.46 (272)
CAPACITY: Fuel tank	ltr. (U.S. Gal)	170 (44.9)	177 (46.8)	175 (46.2)	177 (46.8)

* See PERFORMANCE DATA
 ** 1st speed can be set variably
 • Tier 3 and Stage 3A model

Specifications

WHEEL LOADERS

Item		Model	*WA250-6	WA250-5	*WA250PZ-6	WA250-3	
OPERATING WEIGHT*		kg (lb)					
HORSEPOWER		SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	104 (140)/2000 103 (138)/2000 100 (134)/2000	101 (135)/2000	104 (140)/2000 103 (138)/2000	97 (130)/2400 97 (132)/2400
BUCKET CAPACITY*		m ³ (cu.yd)					
PERFORMANCE:							
Travel speeds:		km/h (MPH)					
Forward		1st	3.6-11.7 (2.2-7.3)**	3.6-11.7 (2.2-7.3)**	4.0-13.0 (2.5-8.1)**	7.8 (4.8)	
		2nd	11.7 (7.3)	11.7 (7.3)	13.0 (8.1)	12.0 (7.5)	
		3rd	16.2 (10.1)	16.2 (10.1)	18.0 (11.2)	21.2 (13.2)	
		4th	34.2 (21.2)	34.2 (21.2)	38.0 (23.6)	34.5 (21.4)	
Reverse		1st	4.0-13.0 (2.5-8.1)**	3.6-11.7 (2.2-7.3)**	4.0-13.0 (2.5-8.1)**	8.1 (5.0)	
		2nd	13.0 (8.1)	11.7 (7.3)	13.0 (8.1)	12.3 (7.6)	
		3rd	18.0 (11.2)	16.2 (10.1)	18.0 (11.2)	21.8 (13.5)	
		4th	38.0 (23.6)	34.2 (21.2)	38.0 (23.6)	35.0 (21.7)	
Turning radius*		mm (ft.in)					
(Outside corner of bucket)							
Articulation angle (each)		degree	40	40	40	40	
DIMENSIONS*:		mm (ft.in)					
ENGINE:							
Model			KOMATSU SAA6D107E-1	KOMATSU SAA6D102E-2	KOMATSU SAA6D107E-1	KOMATSU S6D102E-2	
No. of cylinders-		mm (in)	6-107 × 124	6-102 × 120	6-107 × 124	6-102 × 120	
bore × stroke			(4.21 × 4.88)	(4.02 × 4.72)	(4.21 × 4.88)	(4.0 × 4.7)	
Piston displacement		ltr. (cu.in)	6.69 (408)	5.88 (359)	6.69 (408)	5.88 (359)	
CAPACITY:							
Fuel tank		ltr. (U.S. Gal)	186 (49.1)	184 (48.6)	186 (49.1)	184 (48.7)	

Item		Model	*WA320-6	WA320-5	WA320-3	WA320-3 CUSTOM	
OPERATING WEIGHT*		kg (lb)					
HORSEPOWER		SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	127.3 (171)/2000 125 (167)/2000 117 (156)/2000	124 (166)/2000	121 (163)/2380 121 (165)/2380	114 (153)/2350
BUCKET CAPACITY*		m ³ (cu.yd)					
PERFORMANCE:							
Travel speeds:		km/h (MPH)					
Forward		1st	4.0-13.0 (2.5-8.1)	4.0-13.0 (2.5-8.1)**	7.5 (4.7)	7.5 (4.7)	
		2nd	13.0 (8.1)	13.0 (8.1)	12.0 (7.5)	12.0 (7.5)	
		3rd	18.7 (11.6)	18.0 (11.2)	21.0 (13.0)	21.0 (13.0)	
		4th	38.0 (23.6)	38.0 (23.6)	34.0 (21.1)	34.0 (21.1)	
Reverse		1st	4.0-13.0 (2.5-8.1)	4.0-13.0 (2.5-8.1)**	7.8 (4.8)	7.8 (4.8)	
		2nd	13.0 (8.1)	13.0 (8.1)	12.5 (7.8)	12.5 (7.8)	
		3rd	18.7 (11.6)	18.0 (11.2)	22.0 (13.7)	22.0 (13.7)	
		4th	38.0 (23.6)	38.0 (23.6)	35.0 (21.7)	35.0 (21.7)	
Turning radius*		mm (ft.in)					
(Outside corner of bucket)							
Articulation angle (each)		degree	40	40	40	40	
DIMENSIONS*:		mm (ft.in)					
ENGINE:							
Model			KOMATSU SAA6D107E-1	KOMATSU SAA6D102E-2	KOMATSU S6D108	KOMATSU SA6D102E-2	
No. of cylinders-		mm (in)	6-107 × 124	6-102 × 120	6-108 × 130	6-102 × 120	
bore × stroke			(4.21 × 4.88)	(4.02 × 4.72)	(4.3 × 5.1)	(4.02 × 4.72)	
Piston displacement		ltr. (cu.in)	6.69 (408)	5.88 (359)	7.15 (436)	5.88 (359)	
CAPACITY:							
Fuel tank		ltr. (U.S. Gal)	245 (64.7)	228 (60.2)	221 (58.4)	200 (52.8)	

- * See PERFORMANCE DATA
- ** 1st speed can be set variably
- Tier 3 and Stage 3A model

Specifications

WHEEL LOADERS

Item	Model	•WA320PZ-6	•WA380-6	WA380-5	WA380-3
OPERATING WEIGHT*	kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	127.3 (171)/2000 125 (167)/2000 117 (156)/2000	143 (192)/2100 142 (191)/2100 133 (179)/2100	140 (187)/2000	140 (187)/2200
BUCKET CAPACITY*	m ³ (cu.yd)				
PERFORMANCE:					
Travel speeds:	km/h (MPH)				
Forward 1st		4.0-13.0 (2.5-8.1)	6.0 (3.7)	6.3 (3.9)	7.1 (4.4)
2nd		13.0 (8.1)	10.6 (6.7)	11.4 (7.1)	11.4 (7.1)
3rd		18.7 (11.6)	18.6 (11.6)	20.2 (12.6)	20.2 (12.6)
4th		38.0 (23.6)	31.1 (19.3)	31.5 (19.6)	31.5 (19.6)
Reverse 1st		4.0-13.0 (2.5-8.1)	6.5 (4.0)	6.7 (4.2)	7.4 (4.6)
2nd		13.0 (8.1)	11.3 (7.0)	11.8 (7.3)	11.8 (7.3)
3rd		18.7 (11.6)	20.2 (12.6)	21.0 (13.0)	21.0 (13.0)
4th		38.0 (23.6)	34.0 (21.1)	32.5 (20.2)	32.5 (20.2)
Turning radius* (Outside corner of bucket)	mm (ft.in)				
Articulation angle (each)	degree	40	40	40	40
DIMENSIONS*:	mm (ft.in)				
ENGINE:					
Model		KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	KOMATSU SAA6D114E-2	KOMATSU S6D108-1
No. of cylinders- bore × stroke	mm (in)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-114 × 135 (4.49 × 5.31)	6-108 × 130 (4.25 × 5.12)
Piston displacement	ltr. (cu.in)	6.69 (408)	6.69 (408)	8.27 (505)	7.15 (436)
CAPACITY:					
Fuel tank	ltr. (U.S. Gal)	245 (64.7)	300 (79.3)	300 (79.3)	287 (75.8)

Item	Model	•WA430-6	WA430-5	•WA470-6	WA470-5
OPERATING WEIGHT*	kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	173 (232)/2100 172 (231)/2100 163 (218)/2100	162 (217)/2000	204 (273)/2000 203 (272)/2000 191 (256)/2000	195 (261)/2000
BUCKET CAPACITY*	m ³ (cu.yd)				
PERFORMANCE:					
Travel speeds:	km/h (MPH)				
Forward 1st		7.0 (4.4)	6.6 (4.1)	7.6 (4.7)	5.8 (3.6)
2nd		12.3 (7.6)	11.5 (7.1)	13.1 (8.1)	11.2 (7.0)
3rd		21.6 (13.4)	20.4 (12.7)	22.9 (14.2)	20.2 (12.6)
4th		37.2 (23.1)	33.2 (20.6)	36.2 (37.2)	33.1 (20.6)
Reverse 1st		7.6 (4.7)	7.1 (4.4)	7.9 (4.9)	6.1 (3.8)
2nd		12.9 (8.0)	12.3 (7.6)	13.5 (8.4)	11.9 (7.4)
3rd		23.0 (14.3)	21.6 (13.4)	23.6 (14.7)	21.4 (13.3)
4th		37.2 (23.1)	34.9 (21.7)	37.3 (23.2)	34.7 (21.6)
Turning radius* (Outside corner of bucket)	mm (ft.in)				
Articulation angle (each)	degree	40	40	40	40
DIMENSIONS*:	mm (ft.in)				
ENGINE:					
Model		KOMATSU SAA6D114E-3	KOMATSU SAA6D125E-3	KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-3
No. of cylinders- bore × stroke	mm (in)	6-114 × 135 (4.49 × 5.32)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)
Piston displacement	ltr. (cu.in)	8.27 (505)	11.04 (674)	11.04 (674)	11.04 (674)
CAPACITY:					
Fuel tank	ltr. (U.S. Gal)	325 (85.9)	343 (90.6)	413 (109.1)	390 (103.0)

- * See PERFORMANCE DATA
- Tier 3 and Stage 3A model

Item		Model	WA470-3	•WA480-6	WA480-5	•WA500-6
OPERATING WEIGHT*		kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	194 (260)/2200	224 (300)/2000 223 (299)/2000 211 (283)/2000	202 (271)/2000	266 (357)/1900 263 (353)/1900 248 (332)/1900
BUCKET CAPACITY*		m ³ (cu.yd)				
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward	1st		6.2 (3.9)	7.7 (4.8)	6.3 (3.9)	7.7 (4.8)
	2nd		11.2 (7.0)	13.1 (8.1)	12.1 (7.5)	12.5 (7.8)
	3rd		19.8 (12.3)	22.9 (14.2)	21.6 (13.4)	22.3 (13.9)
	4th		31.5 (19.6)	36.3 (22.6)	34.3 (21.3)	34.9 (21.7)
Reverse	1st		6.4 (4.0)	7.9 (4.9)	6.6 (4.1)	8.6 (5.3)
	2nd		11.7 (7.3)	13.5 (8.4)	12.8 (8.0)	13.0 (8.1)
	3rd		20.7 (12.9)	23.6 (14.7)	22.8 (14.2)	24.8 (15.4)
	4th		32.7 (20.3)	37.4 (23.2)	35.8 (22.2)	37.5 (23.3)
Turning radius* (Outside corner of bucket)		mm (ft.in)				
Articulation angle (each)		degree	40	40	40	40
DIMENSIONS*:		mm (ft.in)				
ENGINE:						
Model			KOMATSU S6D125-1	KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-3	KOMATSU SAA6D140E-5
No. of cylinders- bore × stroke		mm (in)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)	6-140 × 165 (5.51 × 6.50)
Piston displacement		ltr. (cu.in)	11.04 (674)	11.04 (674)	11.04 (674)	15.24 (930)
CAPACITY:						
Fuel tank		ltr. (U.S. Gal)	400 (105.7)	413 (109.1)	417 (110.2)	473 (124.9)

Item		Model	WA500-6R	WA500-3	•WA600-6	WA600-6R
OPERATING WEIGHT*		kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	266 (357)/1900 263 (353)/1900 248 (332)/1900	235 (315)/2100	396 (530)/1800 393 (527)/1800 374 (502)/1900	396 (530)/1800 393 (527)/1800 374 (502)/1800
BUCKET CAPACITY*		m ³ (cu.yd)				
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward	1st		7.7 (4.8)	6.7 (4.2)	6.7 (4.2)	6.7 (4.2)
	2nd		12.5 (7.8)	12.0 (7.5)	11.7 (7.3)	11.7 (7.3)
	3rd		22.3 (13.9)	20.2 (12.6)	20.3 (12.6)	20.3 (12.6)
	4th		34.9 (21.7)	33.0 (20.5)	33.8 (21.0)	33.8 (21.0)
Reverse	1st		8.6 (5.3)	7.5 (4.7)	7.3 (4.5)	7.3 (4.5)
	2nd		13.0 (8.1)	13.4 (8.3)	12.8 (8.0)	12.8 (8.0)
	3rd		24.8 (15.4)	22.5 (14.0)	22.0 (13.7)	22.0 (13.7)
	4th		36.5 (22.7)	36.1 (22.4)	37.0 (23.0)	37.0 (23.0)
Turning radius* (Outside corner of bucket)		mm (ft.in)				
Articulation angle (each)		degree	40	40	43	43
DIMENSIONS*:		mm (ft.in)				
ENGINE:						
Model			KOMATSU SAA6D140E-5	KOMATSU SA6D140E-3	KOMATSU SAA6D170E-5	KOMATSU SAA6D170E-5
No. of cylinders- bore × stroke		mm (in)	6-140 × 165 (5.51 × 6.50)	6-140 × 165 (5.51 × 6.50)	6-170 × 170 (6.69 × 6.69)	6-170 × 170 (6.69 × 6.69)
Piston displacement		ltr. (cu.in)	15.24 (930)	15.24 (930)	23.15 (1413)	23.15 (1413)
CAPACITY:						
Fuel tank		ltr. (U.S. Gal)	473 (124.9)	450 (118.9)	718 (189.7)	718 (189.7)

* See PERFORMANCE DATA
• Tier 3 and Stage 3A model

Specifications

WHEEL LOADERS

Item		Model	WA600-3	WA700-3	WA800-3E0	WA800-3
OPERATING WEIGHT*		kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	357 (478)/2000	502 (672)/2000	636 (853)/2000 603 (808)/2000	603 (808)/2000
BUCKET CAPACITY*		m ³ (cu.yd)				
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward	1st		6.4 (4.0)	6.4 (4.0)	7.0 (4.3)	7.0 (4.3)
	2nd		11.1 (6.9)	11.1 (6.9)	12.3 (7.6)	12.3 (7.6)
	3rd		18.8 (11.7)	18.7 (11.6)	28.0 (17.4)	28.0 (17.4)
	4th		30.3 (18.8)	30.0(18.6)		
Reverse	1st		7.1 (4.4)	7.1 (4.4)	7.1 (4.4)	7.1 (4.4)
	2nd		12.2 (7.6)	12.3 (7.6)	12.4 (7.7)	12.4 (7.7)
	3rd		20.5 (12.7)	20.5 (12.7)	28.3 (17.6)	28.3 (17.6)
	4th		32.7 (20.3)	32.3 (20.1)		
Turning radius* (Outside corner of bucket)		mm (ft.in)				
Articulation angle (each)		degree	40	40	40	40
DIMENSIONS*:		mm (ft.in)				
ENGINE:						
Model			KOMATSU SAA6D170E-3	KOMATSU SAA6D170E-3	KOMATSU SAA12V140E-3	KOMATSU SA12V140-1
No. of cylinders- bore × stroke		mm (in)	6-170 × 170 (6.69 × 6.69)	6-170 × 170 (6.69 × 6.69)	12-140 × 165 (5.51 × 6.50)	12-140 × 165 (5.51 × 6.50)
Piston displacement		ltr. (cu.in)	23.15 (1413)	23.15 (1413)	30.5 (1,861)	30.5 (1,861)
CAPACITY:						
Fuel tank		ltr. (U.S. Gal)	670 (177)	1100 (290.6)	1555 (410.8)	1425 (376.5)

Item		Model	WA900-3E0	WA900-3	WA1200-3	
OPERATING WEIGHT*		kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	672 (900)/2050 638 (856)/2000	637 (853)/2000	1165 (1560)/1900	
BUCKET CAPACITY*		m ³ (cu.yd)				
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward	1st		7.0 (4.3)	7.0 (4.3)	6.3 (3.9)	
	2nd		12.3 (7.6)	12.3 (7.6)	11.5 (7.1)	
	3rd		28.0 (17.4)	28.0 (17.4)	19.8 (12.3)	
	4th					
Reverse	1st		7.1 (4.4)	7.1 (4.4)	7.4 (4.6)	
	2nd		12.4 (7.7)	12.4 (7.7)	13.4 (8.3)	
	3rd		28.3 (17.6)	28.3 (17.6)	22.6 (14.0)	
	4th					
Turning radius* (Outside corner of bucket)		mm (ft.in)				
Articulation angle (each)		degree	40	40	40	
DIMENSIONS*:		mm (ft.in)				
ENGINE:						
Model			KOMATSU SAA12V140E-3	KOMATSU SA12V140-1	CUMMINS QSK60	
No. of cylinders- bore × stroke		mm (in)	12-140 × 165 (5.51 × 6.50)	12-140 × 165 (5.51 × 6.50)	16-159 × 190 (6.26 × 7.48)	
Piston displacement		ltr. (cu.in)	30.5 (1,861)	30.5 (1,861)	60.2 (3,674)	
CAPACITY:						
Fuel tank		ltr. (U.S. Gal)	1555 (410.8)	1430 (377.8)	5100 (1,347)	

* See PERFORMANCE DATA

2. USA sourced models

Item		Model	•WA150-6*5	•WA200-6*5	WA200PZ-6*5	•WA250-6*5
OPERATING WEIGHT*		kg (lb)				
HORSEPOWER	SAE J1995 Gross	kW (HP)/RPM	74 (99)/2200	95.2 (128)/2000	95.2 (128)/2000	104 (140)/2000
	ISO9249 /SAE J1349 Net	kW (HP)/RPM	73 (98)/2200	94 (126)/2000	94 (126)/2000	103 (138)/2000
	Hyd. fan at max. speed Net	kW (HP)/RPM	71 (95)/2200	91 (122)/2000		100 (134)/2000
BUCKET CAPACITY*		m ³ (cu.yd)				
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward	1st		5.5-13.6 (3.4-8.5)**	4.4-14.3 (2.7-8.9)**	4.4-14.3 (2.7-8.9)**	4.0-13.0 (2.5-8.1)**
	2nd		13.6 (8.5)	14.3 (8.9)	14.3 (8.9)	13.0 (8.1)
	3rd		23.5 (14.6)	22.0 (13.9)	22.0 (13.9)	18.0 (11.2)
	4th		38.0 (23.6)	38.0 (23.6)	38.0 (23.6)	38.0 (23.6)
Reverse	1st		5.5-13.6 (3.4-8.5)**	4.4-14.3 (2.7-8.9)**	4.4-14.3 (2.7-8.9)**	4.0-13.0 (2.5-8.1)**
	2nd		13.6 (8.5)	14.3 (8.9)	14.3 (8.9)	13.0 (8.1)
	3rd		23.5 (14.6)	22.0 (13.7)	22.0 (13.7)	18.0 (11.2)
	4th		38.0 (23.6)	38.0 (23.6)	38.0 (23.6)	38.0 (23.6)
Turning radius* (Outside corner of bucket)		mm (ft.in)				
Articulation angle (each)		degree	40	40	40	40
DIMENSIONS*:		mm (ft.in)				
ENGINE:						
Model			KOMATSU SAA4D95LE-5	KOMATSU SA4D107E-1	KOMATSU SAA4D107E-1	KOMATSU SAA6D107E-1
No. of cylinders- bore × stroke		mm (in)	4-95 × 115 (3.74 × 4.53)	4-107 × 124 (4.21 × 4.88)	4-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)
Piston displacement		ltr. (cu.in)	3.26 (199)	4.46 (272)	4.46 (272)	6.69 (408)
CAPACITY:						
Fuel tank		ltr. (U.S. Gal)	133 (35.1)	177 (46.8)	177 (46.8)	186 (49.1)

Item		Model	•WA250PZ-6*5	•WA320-6*4	•WA320PZ-6*5	•WA380-6*4
OPERATING WEIGHT*		kg (lb)				
HORSEPOWER	SAE J1995 Gross	kW (HP)/RPM	104 (140)/2000	127.3 (171)/2000	127.3 (171)/2000	143 (192)/2100
	ISO9249 /SAE J1349 Net	kW (HP)/RPM	103 (138)/2000	125 (167)/2000	125 (167)/2000	142 (191)/2100
	Hyd. fan at max. speed Net	kW (HP)/RPM	100 (134)/2000	117 (156)/2000	117 (156)/2000	133 (179)/2100
BUCKET CAPACITY*		m ³ (cu.yd)				
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward	1st		4.0-13.0 (2.5-8.1)**	4.0-13.0 (2.5-8.1)**	4.0-13.0 (2.5-8.1)	6.5 (4.0)
	2nd		13.0 (8.1)	13.0 (8.1)	13.0 (8.1)	11.3 (7.0)
	3rd		18.0 (11.2)	18.7 (11.6)	18.7 (11.6)	19.9 (12.4)
	4th		38.0 (23.6)	38.0 (23.6)	38.0 (23.6)	33.0 (20.5)
Reverse	1st		4.0-13.0 (2.5-8.1)**	4.0-13.0 (2.5-8.1)**	4.0-13.0 (2.5-8.1)	7.1 (4.4)
	2nd		13.0 (8.1)	13.0 (8.1)	13.0 (8.1)	12.3 (7.6)
	3rd		18.0 (11.2)	18.6 (11.6)	18.7 (11.6)	21.5 (13.4)
	4th		38.0 (23.6)	38.0 (23.6)	38.0 (23.6)	35.5 (22.1)
Turning radius* (Outside corner of bucket)		mm (ft.in)				
Articulation angle (each)		degree	40	40	40	40
DIMENSIONS*:		mm (ft.in)				
ENGINE:						
Model			KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1	KOMATSU SAA6D107E-1
No. of cylinders- bore × stroke		mm (in)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.88)
Piston displacement		ltr. (cu.in)	6.69 (408)	6.69 (408)	6.69 (408)	6.69 (408)
CAPACITY:						
Fuel tank		ltr. (U.S. Gal)	186 (49.1)	245 (64.7)	245 (64.7)	300 (79.3)

- * See PERFORMANCE DATA
- ** 1st speed can be set variably
- *4 USA source
- *5 For USA
- Tier 3 and Stage 3A model

Specifications

WHEEL LOADERS

Item	Model	•WA430-6*4	•WA470-6*5	•WA480-6*5	•WA500-6*4
OPERATING WEIGHT*	kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net	kW (HP)/RPM	173 (232)/2100	204 (273)/2000	224 (300)/2000	266 (357)/1900
	kW (HP)/RPM	172 (231)/2100	203 (272)/2000	223 (299)/2000	263 (353)/1900
	kW (HP)/RPM	163 (218)/2100	191 (256)/2000	211 (283)/2000	248 (332)/1900
BUCKET CAPACITY*	m ³ (cu.yd)				
PERFORMANCE:					
Travel speeds:	km/h (MPH)				
Forward 1st		7.0 (4.4)	7.6 (4.7)	7.7 (4.8)	7.7 (4.8)
2nd		12.3 (7.6)	13.1 (8.1)	13.1 (8.1)	12.5 (7.8)
3rd		21.6 (13.4)	22.9 (14.2)	22.9 (14.2)	22.3 (13.9)
4th		37.2 (23.1)	36.2 (22.5)	36.3 (22.6)	34.9 (21.7)
Reverse 1st		7.6 (4.7)	7.9 (4.9)	7.9 (4.9)	8.6 (5.3)
2nd		12.9 (8.0)	13.5 (8.4)	13.5 (8.4)	13.0 (8.1)
3rd		23.6 (14.3)	23.6 (14.7)	23.6 (14.7)	24.8 (15.4)
4th		37.2 (23.1)	37.3 (23.2)	37.4 (23.2)	37.5 (23.3)
Turning radius* (Outside corner of bucket)	mm (ft.in)				
Articulation angle (each)	degree	40	40	40	40
DIMENSIONS*:	mm (ft.in)				
ENGINE:					
Model		KOMATSU SAA6D114E-3	KOMATSU SAA6D125E-5	KOMATSU SAA6D125E-5	KOMATSU SAA6D140E-5
No. of cylinders- bore × stroke	mm (in)	6-114 × 135 (4.49 × 5.31)	6-125 × 150 (4.92 × 5.91)	6-125 × 150 (4.92 × 5.91)	6-140 × 165 (5.51 × 6.50)
Piston displacement	ltr. (cu.in)	8.27 (505)	11.04 (674)	11.04 (674)	15.24 (930)
CAPACITY:					
Fuel tank	ltr. (U.S. Gal)	325 (85.9)	413 (109.1)	413 (109.1)	473 (124.9)

* See PERFORMANCE DATA

*4 USA source

*5 With large-capacity torque converter

• Tier 3 and Stage 3A model

3. Germany sourced models

Item		Model	WA65-6*4	WA70-6*4	WA80-6*4	WA90-6*4
OPERATING WEIGHT*		kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	40 (54)/2350	45 (60)/2350	50 (67)/2270	59 (79)/2350
BUCKET CAPACITY*		m ³ (cu.yd)				
PERFORMANCE: Travel speeds:		km/h (MPH)				
Forward			5.0 (3.1) 20.0 (12.4)	5.0 (3.1) 20.0 (12.4)	4.5 (2.8) 20.0 (12.4)	6.0 (3.7) 20.0 (12.4)
Reverse			5.0 (3.1) 20.0 (12.4)	5.0 (3.1) 20.0 (12.4)	4.5 (2.8) 20.0 (12.4)	6.0 (3.7) 20.0 (12.4)
Turning radius* (Outside corner of bucket)		mm (ft.in)				
Articulation angle (each)		degree	40	40	42	40
DIMENSIONS*:		mm (ft.in)				
ENGINE: Model			KOMATSU 4D95-LWE-5	KOMATSU 4D95-LWE-5	KOMATSU S4D95-LWE-5	KOMATSU SAA4D95LE-5
No. of cylinders- bore × stroke		mm (in)	4-95 × 115 (3.74 × 4.53)	4-95 × 115 (3.74 × 4.53)	4-95 × 115 (3.74 × 4.53)	4-95 × 115 (3.74 × 4.53)
Piston displacement		ltr. (cu.in)	3.3 (201)	3.3 (201)	3.3 (201)	3.3 (201)
CAPACITY: Fuel tank		ltr. (U.S. Gal)	132 (34.9)	132 (34.9)	140 (37.0)	140 (37.0)

Item		Model	WA100M-6*4	WA150PZ-5*4	•WA200PZ-6*4	•WA250PZ-6*4
OPERATING WEIGHT*		kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	66.2 (89)/2350	71 (95)/2000	94 (126)/2000	103 (138)/2000
BUCKET CAPACITY*		m ³ (cu.yd)				
PERFORMANCE: Travel speeds:		km/h (MPH)				
Forward			5.0 (3.1)/6.6 (4.1)*** 20.0 (12.4)/30.0 (18.6)	5.0-13.6 (3.1-8.5)** 13.6 (8.5) 21.0 (13.0) 39.0 (24.2)	4.4-14.3 (2.7-8.9)** 14.3 (8.9) 22.0 (13.7) 38.0 (23.6)	4.0-13.0 (2.5-8.1)** 13.0 (8.1) 18.0 (11.2) 38.0 (23.6)
Reverse			5.0 (3.1)/6.6 (4.1) 20.0(12.4)/30.0 (18.6)	5.0-13.6 (3.1-8.5)** 13.6 (8.5) 21.0 (13.0) 39.0 (24.2)	4.4-14.3 (2.7-8.9)** 14.3 (8.9) 22.0 (13.7) 38.0 (23.6)	4.0-13.0 (2.5-8.1)** 13.0 (8.1) 18.0 (11.2) 38.0 (23.6)
Turning radius* (Outside corner of bucket)		mm (ft.in)	4750 (15'7")			
Articulation angle (each)		degree	42	40	40	40
DIMENSIONS*:		mm (ft.in)				
ENGINE: Model			KOMATSU SAA4D95LE-5	KOMATSU SAA4D102E	KOMATSU SAA4D107E-1	KOMATSU SAA6D107E-1
No. of cylinders- bore × stroke		mm (in)	4-95 × 115 (3.74 × 4.53)	4-102 × 120 (4.02 × 4.72)	4-107 × 124 (4.21 × 4.88)	6-107 × 124 (4.21 × 4.85)
Piston displacement		ltr. (cu.in)	3.3 (201)	3.9 (238)	4.46 (272)	6.69 (408)
CAPACITY: Fuel tank		ltr. (U.S. Gal)	140 (37.0)	133 (35.1)	177 (46.8)	186 (49.1)

* See PERFORMANCE DATA
 ** 1st speed can be set variably
 *** 20 km/h version / 30 km/h version
 *4 Germany source
 • Tier 3 and Stage 3A model

Specifications

WHEEL LOADERS

Item		Model	• WA320PZ-6**4	• WA380-6**4	• WA430-6**4	• WA470-6**5
OPERATING WEIGHT*		kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	125 (167)/2000	142 (191)/2100	173 (232)/2000	203 (272)/2000
BUCKET CAPACITY*		m ³ (cu.yd)				
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward 1st		4.0-13.0 (2.5-8.1)**	6.6 (4.1)	6.8 (4.2)	7.6 (4.7)	
2nd		13.0 (8.1)	11.5 (7.1)	12.4 (7.7)	13.2 (8.2)	
3rd		18.7 (11.6)	20.2 (12.3)	21.5 (13.4)	22.7 (14.1)	
4th		38.0 (23.6)	33.5 (20.8)	35.0 (21.7)	36.2 (22.5)	
Reverse 1st		4.0-13.0 (2.5-8.1)**	7.1 (2.8)	7.3 (4.5)	7.9 (4.9)	
2nd		13.0 (8.1)	12.3 (7.6)	12.9 (8.0)	13.5 (8.4)	
3rd		18.7 (11.6)	21.5 (13.4)	22.7 (14.1)	23.5 (14.6)	
4th		38.0 (23.6)	39.0 (24.2)	36.0 (22.4)	37.3 (23.2)	
Turning radius* (Outside corner of bucket)		mm (ft.in)				
Articulation angle (each)		degree	40	40	40	37
DIMENSIONS*:		mm (ft.in)				
ENGINE:						
Model			KOMATSU	KOMATSU	KOMATSU	KOMATSU
No. of cylinders-		mm (in)	SAA6D107E-1	SAA6D107E-1	SAA6D114E-2	SAA6D125E-5
bore × stroke			6-107 × 124	6-107 × 124	6-114 × 135	6-125 × 150
Piston displacement		ltr. (cu.in)	(4.21 × 4.88)	(4.21 × 4.88)	(4.49 × 5.31)	(4.92 × 5.91)
CAPACITY:			6.69 (408)	6.69 (408)	8.27 (505)	11.04 (674)
Fuel tank		ltr. (U.S. Gal)	245 (64.7)	300 (79.3)	300 (79.3)	413 (109.1)

Item		Model	• WA480-6**5	• WA500-6**4		
OPERATING WEIGHT*		kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	223 (299)/2000	263 (353)/1900		
BUCKET CAPACITY*		m ³ (cu.yd)				
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward 1st		7.6 (4.7)	7.7 (4.8)			
2nd		13.2 (8.2)	12.5 (7.8)			
3rd		22.7 (14.1)	22.3 (13.9)			
4th		36.2 (22.5)	35.0 (21.7)			
Reverse 1st		7.9 (4.9)	8.6 (5.3)			
2nd		13.5 (8.4)	13.0 (8.1)			
3rd		23.5 (14.6)	25.0 (15.5)			
4th		37.3 (23.2)	37.5 (23.3)			
Turning radius* (Outside corner of bucket)		mm (ft.in)				
Articulation angle (each)		degree	37	40		
DIMENSIONS*:		mm (ft.in)				
ENGINE:						
Model			KOMATSU	KOMATSU		
No. of cylinders-		mm (in)	SAA6D125E-5	SA6D140E-5		
bore × stroke			6-125 × 150	6-140 × 165		
Piston displacement		ltr. (cu.in)	(4.92 × 5.91)	(5.51 × 6.5)		
CAPACITY:			11.4 (674)	15.24 (930)		
Fuel tank		ltr. (U.S. Gal)	413 (109.1)	473 (125)		

* See PERFORMANCE DATA

** 1st speed can be set variably

*4 Germany source

*5 With large-capacity torque converter

• Tier 3 and Stage 3A model

4. China sourced models

Item		Model	WA320-3*7	WA380-3*7	WA420-3*7	WA470-3*7
OPERATING WEIGHT*		kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	114 (153)/2350	146 (196)/2200	167 (224)/2200	194 (260)/2100
BUCKET CAPACITY*		m ³ (cu.yd)				
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward	1st		7.5 (4.7)	7.7 (4.9)	6.3 (3.9)	7.0 (4.3)
	2nd		12.0(7.5)	12.3 (7.6)	11.7 (7.3)	12.5 (7.8)
	3rd		21.0 (13.0)	21.4 (13.3)	20.5 (12.7)	22.2 (13.8)
	4th		34.0 (21.1)	34.0 (21.1)	32.8 (20.4)	35.3 (21.9)
Reverse	1st		8.0 (5.0)	8.0 (5.0)	6.6 (4.1)	7.2 (4.5)
	2nd		12.5 (7.8)	12.8 (8.0)	12.2 (7.6)	13.2 (8.2)
	3rd		22.0 (13.7)	22.6 (14.0)	21.2 (13.2)	23.1 (14.4)
	4th		35.0 (21.7)	35.0 (21.7)	33.9 (21.1)	36.6 (22.7)
Turning radius* (Outside corner of bucket)		mm (ft.in)				
Articulation angle (each)		degree	40	40	40	40
DIMENSIONS*:		mm (ft.in)				
ENGINE:						
Model			KOMATSU SA6D102E	KOMATSU S6D114	KOMATSU SA6D114	KOMATSU SA6D125E
No. of cylinders- bore × stroke		mm (in)	6-102 × 120 (4.02 × 4.72)	6-114 × 135 (4.5 × 5.3)	6-114 × 135 (4.53 × 5.31)	6-125 × 150 (4.92 × 5.91)
Piston displacement		ltr. (cu.in)	5.88 (359)	8.27 (505)	8.27 (505)	11.04 (674)
CAPACITY:						
Fuel tank		ltr. (U.S. Gal)	188 (49.7)	285 (75.3)	320 (84.5)	391 (103.3)

Item		Model	WA500-3*7	WA600-3*7		
OPERATING WEIGHT*		kg (lb)				
HORSEPOWER SAE J1995 Gross ISO9249 /SAE J1349 Net Hyd. fan at max. speed Net		kW (HP)/RPM kW (HP)/RPM kW (HP)/RPM	235 (315)/2100	327 (439)/2000		
BUCKET CAPACITY*		m ³ (cu.yd)				
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward	1st		6.7 (4.2)	7.4 (4.6)		
	2nd		12.0 (7.5)	12.7 (7.9)		
	3rd		20.2 (12.6)	21.0 (13.0)		
	4th		33.0 (20.5)	33.5 (20.8)		
Reverse	1st		7.5 (4.7)	8.2 (5.1)		
	2nd		13.4 (8.3)	13.9 (8.6)		
	3rd		22.5 (14.0)	23.0 (14.3)		
	4th		36.1 (22.4)	35.2 (21.9)		
Turning radius* (Outside corner of bucket)		mm (ft.in)				
Articulation angle (each)		degree	40			
DIMENSIONS*:		mm (ft.in)				
ENGINE:						
Model			KOMATSU S6D140E-2	KOMATSU S6D170E		
No. of cylinders- bore × stroke		mm (in)	6-140 × 165 (5.51 × 6.50)	6-170 × 170 (6.69 × 6.69)		
Piston displacement		ltr. (cu.in)	15.24 (930)	23.15 (1413)		
CAPACITY:						
Fuel tank		ltr. (U.S. Gal)	465 (122.9)	670 (177.0)		

* See PERFORMANCE DATA

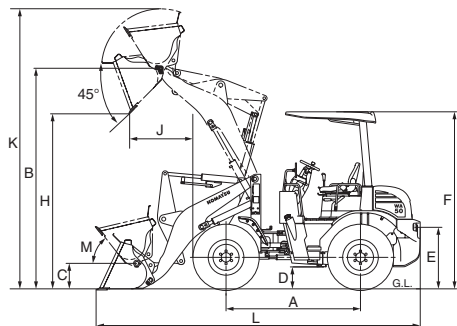
*7 China source

**Performance Data
Dimensions**

WHEEL LOADERS

WA50-6

Unit: mm (ft.in)



Tires	15.5/60-18-8PR(L-2)
Tread	1250 (4'1")
Width over tires	1650 (5'5")
A Wheelbase	1900 (6'3")
B Hinge pin height, max. height	3120 (10'3")
C Hinge pin height, carry position	360 (1'2")
D Ground clearance	310 (1'0")
E Hitch height	470 (1'7")
F Overall height, ROPS (canopy/cab)	2500 (8'2")/2540 (8'4")
M Tilt back angle	52°

Measured with 15.5/60-18-8PR (L2) tires

Bucket Type			Stockpile bucket With Bolt-on Cutting Edge
Bucket capacity	Heaped	m ³ (yd ³)	0.6 (0.8)
	Struck	m ³ (yd ³)	0.5 (0.7)
Bucket width		mm (ft.in)	1690 (5'7")
Bucket weight (with B.O.C.)		kg (lb)	215 (475)
Static tipping load	Straight (canopy/cab)	kg (lb)	2450 (5,400)/2580 (5,690)
	Full turn (canopy/cab)	kg (lb)	2000 (4,410)/2100 (4,630)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2475 (8'1")
Reach at 2130 mm (7') and 45° dump angle**		mm (ft.in)	
J. Reach at max. height and 45° dump angle**		mm (ft.in)	900 (2'11")
Reach with arm horizontal and bucket level**		mm (ft.in)	1945 (6'5")
K. Operating height (fully raised)		mm (ft.in)	3955 (13'0")
L. Overall length, bucket on ground		mm (ft.in)	4580 (15'0")
Turning radius*		mm (ft.in)	3825 (12'7")
Digging depth	0°	mm (ft.in)	43 (1.7")
	10°	mm (ft.in)	175 (6.9")
Breakout force		kN/kgf (lb)	29.9/3050 (6,720)
Operating weight (canopy/cab)		kg (lb)	3675 (8,100)/3825 (8,430)

* Bucket at carry, outside corner of bucket.

** At the end of B.O.C.

**Performance Data
Dimensions**

WHEEL LOADERS

WA120-3

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I General-purpose bucket with bolt-on cutting edges; (Loading and excavating of soil, sand and variety of other commonly handled materials.)	1.4 (1.85)	1.2 (1.55)	2390 (7'10")	600 (1320)	6120 (13490)
II General-purpose bucket with teeth	1.3 (1.7)	1.1 (0.45)	2390 (7'10")	550 (1210)	6680 (14730)
III Excavating bucket with bolt-on cutting edges	1.2 (1.55)	1.0 (1.3)	2390 (7'10")	570 (1260)	6470 (14260)
IV Excavating bucket with teeth (Loading and excavating of crushed rock and blasted rock.)	1.2 (1.55)	1.0 (1.3)	2390 (7'10")	515 (1135)	7060 (15560)
V Light material bucket with bolt-on cutting edges; (A Lighter-weight, large-capacity bucket.)	1.7 (2.25)	1.5 (1.95)	2390 (7'10")	665 (1465)	5220 (11510)

Tires/Buckets	Operating weight kg/lb				Static tipping load kg/lb											
					Straight				35° turn				40° full turn			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
16.9-24-10PR (L-2)	7600 16760	7550 16640	7570 16690	7515 16570	6300 13890	6365 14030	6350 14000	6415 14140	5670 12500	5730 12630	5715 12600	5775 12730	5480 12080	5535 12200	5525 12180	5580 12300
16.9-24-10PR (L-3)	7700 16980	7650 16870	7670 16910	7615 16790	6370 14040	6435 14190	6420 14150	6485 14300	5730 12630	5790 12760	5785 12740	5835 12860	5540 12210	5595 12330	5585 12310	5640 12430
14.00-24-12PR (L-2)	7730 17040	7680 16930	7700 17000	7645 16850	6395 14100	6460 14240	6445 14210	6510 14350	5755 12690	5815 12820	5800 12790	5860 12920	5565 12270	5620 12390	5610 12370	5665 12490
15.5-25-8PR (L-2)	7610 16780	7560 16670	7580 16710	7525 16590	6310 13910	6375 14050	6360 14020	6425 14160	5680 12520	5340 11770	5725 12620	5785 12750	5485 12090	5540 12210	5530 12190	5585 12310
15.5-25-8PR (L-3)	7660 16890	7610 16780	7630 16820	7575 16700	6340 13980	6405 14120	6390 14090	6455 14230	5705 12580	5765 12710	5750 12680	5810 12810	5515 12160	5570 12780	5560 12260	5615 12380
15.5-25-12PR (L-2)	7750 17090	7700 17000	7720 17020	7665 16900	6410 14130	6475 14270	6460 14240	6525 14380	5770 12720	5830 142850	5815 12820	5875 12950	5580 12300	5635 12420	5625 12400	5680 12520
17.5-25-12PR (L-3)	7790 17170	7740 17060	7760 17110	7705 16990	6440 14200	6505 14340	6490 14310	6555 14450	5795 12780	5855 12910	5840 12870	5900 13010	5600 12350	5655 12470	5640 12430	5690 12540

- All dimensions, weights and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.

Weight Changes

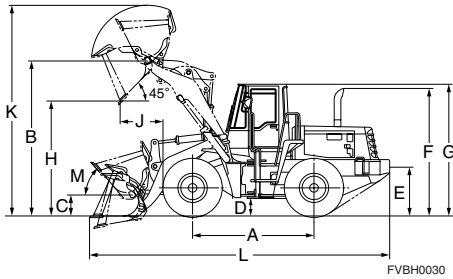
	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS cab	-500 (-1100)	-470 (-1040)	-410 (-900)
Install ROPS canopy 320 kg (710 lb)	-180 (-400)	-170 (-370)	-150 (-330)
Install steel cab 310 kg (680 lb)	-190 (-420)	-180 (-400)	-160 (-350)
Install additional counterweight	+280 (+620)	+530 (+1170)	+460 (+1010)

**Performance Data
Dimensions**

WHEEL LOADERS

WA120-3

Unit: mm (ft.in)



	16.9-24 tires	14.00-24 and 17.5-25 tires	15.5-25 tires
Tread	1780 (5'10")	1780 (5'10")	1780 (5'10")
Width over tires	2250 (7'5")	2185 (7'2") 2225 (7'4")	2180 (7'2")
A Wheelbase	2600 (8'6")	2600 (8'6")	2600 (8'6")
B Hinge pin height, max. height	3450 (11'4")	3475 (11'5)	3440 (11'3")
C Hinge pin height, carry position	360 (1'2")	355 (1'2")	365 (1'2")
D Ground clearance	400 (1'4")	425 (1'5")	390 (1'4")
E Hitch height	780 (2'7")	805 (2'8")	770 (2'6")
F Overall height, top of the stack	2955 (9'8")	2980 (9'9")	2945 (9'8")
M Tilt buck angle	46°	46°	46°

Measured with 16.9-24 tires

	Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle*		2700 (8'10")	2640 (8'8")	2730 (8'11")	2670 (8'9")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		1370 (4'6")	1390 (4'7")	1355 (4'5")	1375 (4'6")
J. Reach at max. height and 45° dump angle*		975 (3'2")	1025 (3'4")	945 (3'1")	995 (3'3")
Reach with arm horizontal and bucket level		2005 (6'7")	2080 (6'10")	1965 (6'5")	2040 (6'8")
K. Operating height (fully raised)		4545 (14'11")	4545 (14'11")	4445 (14'7")	4445 (14'7")
L. Overall length		5975 (19'7")	6055 (19'10")	5955 (19'6")	6015 (19'9")
Loader clearance circle (bucket at carry, outside corner of bucket)		10360 (34')	10400 (34'1")	10340 (33'11")	10380 (34'1")
Digging depth	0°	80 (3.1")	85 (3.3")	80 (3.1")	85 (3.3")
	10°	235 (9.3")	255 (10")	230 (9.1")	250 (9.8")

* At the end of teeth or BOC

Measured with 14.00-24 and 17.5-25 tires

	Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle*		2725 (8'11")	2665 (8'9")	2755 (9')	2695 (8'10")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		1365 (4'6")	1385 (4'7")	1350 (4'5")	1370 (4'6")
J. Reach at max. height and 45° dump angle*		955 (3'2")	1005 (3'4")	925 (3')	975 (3'3")
Reach with arm horizontal and bucket level		1985 (6'6")	2060 (6'9")	1945 (6'5")	2020 (6'8")
K. Operating height (fully raised)		4570 (15')	4570 (15')	4470 (14'8")	4470 (14'8")
L. Overall length		5950 (19'6")	6030 (19'9")	5930 (19'5")	5990 (19'8")
Loader clearance circle (bucket at carry, outside corner of bucket)		10340 (33'11")	10380 (34'1")	10320 (33'10")	10360 (34')
Digging depth	0°	55 (2.2")	60 (2.4")	55 (2.2")	60 (2.4")
	10°	210 (8.3")	230 (9.1")	205 (8.1")	225 (8.9")

* At the end of teeth or BOC

Measured with 15.5-25 tires

	Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle*		2690 (8'10")	2630 (8'8")	2720 (8'11")	2660 (8'8")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		1380 (4'6")	1400 (4'7")	1370 (4'6")	1390 (4'7")
J. Reach at max. height and 45° dump angle*		985 (3'3")	1035 (3'5")	955 (3'2")	1005 (3'4")
Reach with arm horizontal and bucket level		2015 (6'7")	2090 (6'10")	1975 (6'6")	2050 (6'9")
K. Operating height (fully raised)		4535 (14'11")	4535 (14'11")	4435 (14'7")	4435 (14'7")
L. Overall length		5985 (19'8")	6065 (19'11")	5965 (19'7")	6025 (19'9")
Loader clearance circle (bucket at carry, outside corner of bucket)		10380 (34'1")	10420 (34'2")	10360 (34')	10400 (34'1")
Digging depth	0°	90 (3.5")	95 (3.5")	90 (3.5")	95 (3.7")
	10°	245 (9.6")	265 (10.4")	240 (9.4")	260 (10.2")

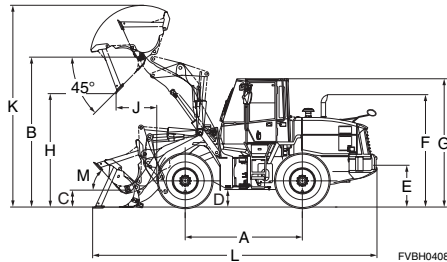
* At the end of teeth or BOC

Performance Data Dimensions

WHEEL LOADERS

WA150-6

Unit: mm (ft.in)



	16.9-24 tires	15.5-25 tires	17.5-25 tires
Tread	1780 (5'10")	1780 (5'10")	1780 (5'10")
Width over tires	2250 (7'5")	2180 (7'2")	2220 (7'3")
A Wheelbase	2600 (8'6")	2600 (8'6")	2600 (8'6")
B Hinge pin height, max. height	3485 (11'5")	3475 (11'5")	3510 (11'6")
C Hinge pin height, carry position	360 (1'2")	360 (1'2")	355 (1'2")
D Ground clearance	400 (1'4")	390 (1'3")	425 (1'5")
E Hitch height	800 (2'7")	790 (2'1")	825 (2'8")
F Overall height, top of the stack	2495 (8'2")	2485 (8'2")	2520 (8'3")
G Overall height, ROPS cab	3035 (9'11")	3025 (9'11")	3060 (10'0")
H See dumping clearance below			
M Tilt back angle	46°	46°	46°

Measured with 16.9-24-10PR (L2) tires

Bucket Type			Stockpile Bucket		Excavating Bucket		Light Material Bucket
			Bolt-on Cutting Edge	Teeth	Bolt-on Cutting Edge	Teeth	Bolt-on Cutting Edge
Bucket capacity	Heaped	m ³ (yd ³)	1.5 (2.0)	1.4 (1.8)	1.3 (1.7)	1.2 (1.6)	1.7 (2.2)
	Struck	m ³ (yd ³)	1.25 (1.6)	1.2 (1.6)	1.1 (1.4)	1.05 (1.4)	1.5 (2.0)
Bucket width		mm (ft.in)	2390 (7'10")	2390 (7'10")	2390 (7'10")	2390 (7'10")	2390 (7'10")
Bucket weight		kg (lb)	595 (1,310)	540 (1,190)	580 (1,280)	525 (1,160)	665 (1,470)
Static tipping load	Straight	kg (lb)	6635 (14,630)	6690 (14,750)	6675 (14,720)	6730 (14,840)	6540 (14,420)
	Full turn (38°)	kg (lb)	5775 (12,730)	5825 (12,840)	5810 (12,810)	5860 (12,920)	5695 (12,560)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2705 (8'10")	2645 (8'8")	2745 (9'0")	2685 (8'10")	2630 (8'8")
Reach at 2130 mm (7') and 45° dump angle**		mm (ft.in)	1385 (4'7")	1405 (4'7")	1365 (4'6")	1385 (4'7")	1420 (4'8")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	970 (3'10")	1020 (3'4")	930 (3'1")	980 (3'3")	1045 (3'5")
Reach with arm horizontal and bucket level**		mm (ft.in)	2055 (6'9")	2130 (7'0")	1995 (6'6")	2070 (6'9")	2160 (7'1")
K. Operating height (fully raised)		mm (ft.in)	4630 (15'2")	4630 (15'2")	4560 (15'0")	4560 (15'0")	4710 (15'5")
L. Overall length, bucket on ground		mm (ft.in)	6310 (20'8")	6385 (20'11")	6250 (20'6")	6325 (20'6")	6415 (21'1")
Turning radius*		mm (ft.in)	5380 (17'8")	5400 (17'9")	5360 (17'7")	5385 (17'8")	5405 (17'9")
Digging depth	0°	mm (ft.in)	90 (3.5")	100 (3.9")	90 (3.5")	100 (3.9")	90 (3.5")
	10°	mm (ft.in)	255 (10.0")	275 (10.8")	245 (9.6")	265 (10.4")	270 (10.6")
Breakout force		kN (kgf) (lb)	72.6 (7400) (16,310)	66.5 (6780) (14,950)	78.6 (8010) (17,660)	71.5 (7290) (16,070)	64.0 (6530) (14,400)
Operating weight		kg (lb)	7700 (16,980)	7645 (16,850)	7685 (16,940)	7630 (16,830)	7770 (17,130)

* Bucket at carry, outside corner of bucket.

** At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

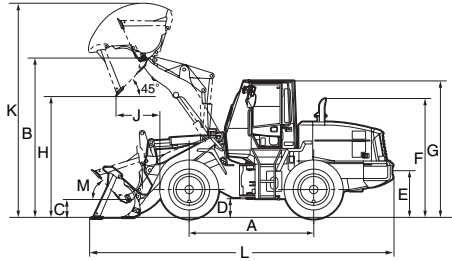
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions		Change in Reach	
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
15.5-25-8PR (L2)	+10	+22	+10	+22	+5	+11	2180	7'2"	390	1'3"	-10	-0.4"	+10	+0.4"
17.5-25-12PR (L2)	+150	+331	+110	+243	+95	+209	2220	7'3"	425	1'5"	+25	+1.0"	-25	-1.0"
Install ROPS canopy (instead of cab)	-150	-331	-160	-353	-150	-331								
Additional counterweight	+200	+441	+380	+838	+336	+728								

Performance Data Dimensions

WHEEL LOADERS

WA150-5



	Unit: mm (ft.in)			
	16.9-24-10PR (L2)	14.00-24-12PR (L2)	15.5-25-8PR (L2)	17.5-25-12PR (L2)
Tread	1780 (5'10")	1780 (5'10")	1780 (5'10")	1780 (5'10")
Width over tires	2250 (7'5")	2185 (7'2")	2180 (7'2")	2220 (7'3")
A Wheelbase	2600 (8'6")	2600 (8'6")	2600 (8'6")	2600 (8'6")
B Hinge pin height, max. height	3485 (11'5")	3510 (11'6")	3475 (11'5")	3510 (11'6")
C Hinge pin height, carry position	360 (1'2")	355 (1'2")	360 (1'2")	355 (1'2")
D Ground clearance	400 (1'4")	425 (1'5")	390 (1'3")	425 (1'5")
E Hitch height	800 (2'7")	825 (2'8")	790 (2'7")	825 (2'8")
F Overall height, top of the stack	2420 (7'11")	2445 (8'0")	2410 (7'11")	2445 (8'0")
G Overall height, ROPS cab	3035 (9'11")	3060 (10'0")	3025 (9'11")	3060 (10'0")
H See dumping clearance below				
M Tilt back angle	46°	46°	46°	46°

Measured with 16.9-24-10PR (L2) tires

Bucket Type			Stockpile Bucket With Bolt-on Cutting Edge	Excavating Bucket With Bolt-on Cutting Edge	Light Material Bucket With Bolt-on Cutting Edge
Bucket capacity	Heaped	m ³ (yd ³)	1.5 (2.0)	1.3 (1.7)	1.7 (2.2)
	Struck	m ³ (yd ³)	1.25 (1.6)	1.1 (1.4)	1.5 (2.0)
Bucket width		mm (ft.in)	2390 (7'10")	2390 (7'10")	2390 (7'10")
Bucket weight		kg (lb)	595 (1,312)	580 (1,279)	665 (1,466)
Static tipping load	Straight	kg (lb)	6370 (14,043)	6410 (14,132)	6280 (13,845)
	Full turn (40°)	kg (lb)	5540 (12,213)	5570 (12,280)	5460 (12,037)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2705 (8'10")	2745 (9'0")	2630 (8'8")
Reach at 2130 mm (7') and 45° dump angle**		mm (ft.in)	1385 (4'7")	1365 (4'6")	1420 (4'8")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	970 (3'2")	930 (3'1")	1045 (3'5")
Reach with arm horizontal and bucket level**		mm (ft.in)	2055 (6'9")	1995 (6'6")	2160 (7'1")
K. Operating height (fully raised)		mm (ft.in)	4630 (15'2")	4560 (15'0")	4710 (15'5")
L. Overall length, bucket on ground		mm (ft.in)	6320 (20'9")	6260 (20'6")	6425 (21'1")
Turning radius*		mm (ft.in)	5185 (17'0")	5180 (17'0")	5225 (17'2")
Digging depth	0°	mm (ft.in)	90 (3.5")	90 (3.5")	90 (3.5")
	10°	mm (ft.in)	255 (10.0")	245 (9.6")	270 (10.6")
Breakout force		kgf (lb)	7400 (16,314)	8010 (17,659)	6530 (14,396)
Operating weight		kg (lb)	7425 (16,369)	7410 (16,336)	7495 (16,524)

* Bucket at carry, outside corner of bucket.

** At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire	Ground Clearance	Change in Vertical Dimensions		Change in Reach			
			Straight		Full Turn				mm	ft.in	mm	ft.in		
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in		
14.00-24-12PR (L2)	+130	+287	+95	+209	+85	+187	2185	7'2"	425	1'5"	+25	+1.0"	-25	-1.0"
15.5-25-8PR (L2)	+10	+22	+10	+22	+5	+11	2180	7'2"	390	1'3"	-10	-0.4"	+10	+0.4"
17.5-25-12PR (L2)	+150	+331	+110	+243	+95	+209	2220	7'3"	425	1'5"	+25	+1.0"	-25	-1.0"
Install ROPS canopy (instead of cab)	-110	-243	-110	-243	-95	-209								
Additional counterweight	+200	+441	+380	+838	+330	+728								
Air conditioner	+70	+154	+80	+176	+70	+154								

**Performance Data
Dimensions**

WHEEL LOADERS

WA180-3

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I General-purpose bucket with bolt-on cutting edges; (Loading and excavating of soil, sand and variety of other commonly handled materials.)	1.7 (2.25)	1.55 (2.02)	2440 (8')	710 (1570)	7940 (17500)
II General-purpose bucket with teeth	1.6 (2.1)	1.34 (1.75)	2440 (8')	665 (1470)	8570 (18890)
III Excavating bucket with bolt-on cutting edges	1.5 (2.0)	1.3 (1.7)	2440 (8')	725 (1600)	8300 (18300)
IV Excavating bucket with teeth (Loading and excavating of crushed rock and blasted rock.)	1.5 (2.0)	1.27 (1.66)	2440 (8')	670 (1480)	8980 (19800)
V Light material bucket with bolt-on cutting edges; (A Lighter-weight, large-capacity bucket.)	2.2 (2.9)	1.9 (2.5)	2440 (8')	800 (1760)	6590 (14530)

Tires/Buckets	Operating weight kg/lb				Static tipping load kg/lb											
					Straight				35° turn				40° full turn			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
18.4-24-10PR (L-2)	8700 19180	8655 19080	8715 19210	8660 19090	7560 16670	7620 16800	7645 16860	7720 170200	6805 15000	6860 15130	6880 151700	6950 15320	6580 14510	6630 14620	6650 14660	6720 14820
14.00-24- 12PR (L-2)	8720 19220	8675 19120	8735 19260	8810 19420	7570 16690	7630 16820	7655 16880	7730 17040	6815 15030	6870 15150	6890 15190	6960 15350	6590 14530	6640 14640	6660 14690	6725 14830
14.00-24- 12PR (L-3)	8800 19400	8755 19300	8815 19430	8890 19600	7630 16820	7690 16960	7715 17010	7790 17180	6870 15150	6920 15260	6945 15310	7010 15460	6640 14640	6690 14750	6715 14810	6780 14950
15.5-25-12PR (L-2)	8630 19030	8585 18930	8645 19060	8720 19220	7510 16560	7570 16690	7595 16750	7670 16910	6760 14910	6815 15030	6835 15070	6905 15230	6535 14410	6585 14520	6610 14580	6675 14720
15.5-25-12PR (L-3)	8680 19140	8635 19040	8695 19170	8770 19330	7550 17090	7610 16780	7635 16840	7710 17000	6795 14980	6850 15100	6875 15160	6940 15300	6570 14490	6620 14600	6645 14650	6710 14800
17.5-25-12PR (L-2)	8750 19290	8705 19190	8765 19320	8840 19490	7600 16760	7660 16890	7685 16950	7760 17110	6840 15080	6895 15200	6920 15260	6985 15400	6615 14590	6665 14700	6685 14740	6750 14880
17.5-25-12PR (L-3)	8790 19380	8745 19280	8805 19410	8880 19580	7630 16820	7690 16960	7715 17010	7790 17180	6870 15150	6920 15260	6945 15310	7010 15460	6640 14640	6690 14750	6715 14810	6780 14950

- All dimensions, weights and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.

Weight Changes

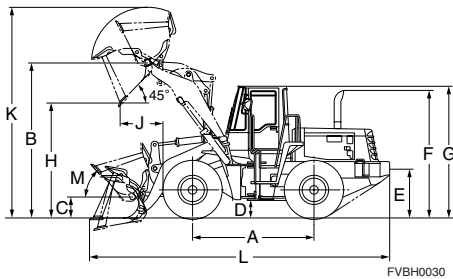
	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS cab	-500 (-1100)	-460 (-1010)	-400 (-880)
Install ROPS canopy 320 kg (710 lb)	-180 (-400)	-170 (-370)	-140 (-310)
Install steel cab 310 kg (680 lb)	-190 (-420)	-175 (-390)	-150 (-330)
Install additional counterweight	+280 (+620)	+520 (+1150)	+450 (+990)

Performance Data Dimensions

WHEEL LOADERS

WA180-3

Unit: mm (ft.in)



	18.4-24 tires	14.00-24 and 17.5-25 tires	15.5-25 tires
Tread	1820 (6')	1820 (6')	1820 (6')
Width over tires	2320 (7'7")	2225 (7'4") 2260 (7'5")	2220 (7'3")
A Wheelbase	2700 (8'10")	2700 (8'10")	2700 (8'10")
B Hinge pin height, max. height	3545 (11'7")	3535 (11'7")	3505 (11'6")
C Hinge pin height, carry position	365 (1'2")	365 (1'2")	375 (1'3")
D Ground clearance	430 (1'5")	420 (1'5")	390 (1'4")
E Hitch height	820 (2'8")	810 (2'8")	780 (2'7")
F Overall height, top of the stack	3000 (9'10")	2990 (9'10")	2960 (9'9")
G Overall height, ROPS cab	3100 (10'2")	3090 (10'2")	3060 (10')
M Tilt back angle	46°	46°	46°

Measured with 18.4-25 tires

	Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle*		2720 (8'11")	2630 (8'8")	2745 (9')	2660 (8'9")
Reach at 2130 mm (7") cut edge clearance and 45° dump angle		1395 (4'7")	1420 (4'8")	1380 (4'6")	1410 (4'8")
J. Reach at max. height and 45° dump angle*		970 (3'2")	1040 (3'5")	940 (3'1")	1015 (3'4")
Reach with arm horizontal and bucket level		2085 (6'10")	2195 (7'2")	2045 (6'9")	2160 (7'1")
K. Operating height (fully raised)		4700 (15'5")	4700 (15'5")	4645 (15'3")	4645 (15'3")
L. Overall length		6410 (21')	6520 (21'5")	6375 (20'11")	6485 (21'3")
Loader clearance circle (bucket at carry, outside corner of bucket)		10770 (35'4")	10840 (35'7")	10750 (35'3")	10820 (35'6")
Digging depth	0°	115 (4.5")	125 (4.9")	115 (4.5")	125 (4.9")
	10°	285 (11.2")	310 (12.2")	275 (10.8")	305 (12")

* At the end of teeth or BOC

Measured with 14.00-24 and 17.5-25 tires

	Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle*		2710 (8'11")	2620 (8'7")	2735 (9')	2650 (8'8")
Reach at 2130 mm (7") cut edge clearance and 45° dump angle		1405 (4'7")	1430 (4'8")	1390 (4'7")	1415 (4'8")
J. Reach at max. height and 45° dump angle*		980 (3'3")	1050 (3'5")	950 (3'1")	1025 (3'4")
Reach with arm horizontal and bucket level		2095 (6'10")	2205 (7'3")	2055 (6'9")	2170 (7'1")
K. Operating height (fully raised)		4690 (15'5")	4690 (15'5")	4635 (15'2")	4635 (15'2")
L. Overall length		6420 (21'1")	6530 (21'5")	6385 (20'11")	6495 (21'4")
Loader clearance circle (bucket at carry, outside corner of bucket)		10790 (35'5")	10860 (35'8")	10770 (35'4")	10840 (35'7")
Digging depth	0°	125 (4.9")	135 (5.3")	125 (4.9")	135 (5.3")
	10°	295 (11.6")	320 (12.6")	285 (11.2")	315 (12.4")

* At the end of teeth or BOC

Measured with 15.5-25 tires

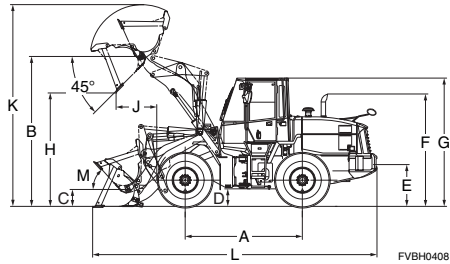
	Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle*		2680 (8'10")	2590 (8'6")	2705 (8'10")	2620 (8'7")
Reach at 2130 mm (7") cut edge clearance and 45° dump angle		1425 (4'8")	1445 (4'9")	1410 (4'8")	1435 (4'8")
J. Reach at max. height and 45° dump angle*		1010 (3'4")	1080 (3'7")	980 (3'3")	1055 (3'6")
Reach with arm horizontal and bucket level		2125 (7')	2235 (7'4")	2085 (6'10")	2200 (7'3")
K. Operating height (fully raised)		4660 (15'3")	4660 (15'3")	4605 (15'1")	4605 (15'1")
L. Overall length		6445 (21'2")	6555 (21'6")	6410 (21')	6520 (21'5")
Loader clearance circle (bucket at carry, outside corner of bucket)		10830 (35'6")	10900 (35'9")	10810 (35'6")	10880 (35'8")
Digging depth	0°	155 (6.1")	165 (6.5")	155 (6.1")	165 (6.5")
	10°	325 (12.8")	350 (13.8")	315 (12.4")	345 (13.6")

* At the end of teeth or BOC

Performance Data Dimensions

WHEEL LOADERS

WA200-6



	17.5-25 tires	20.5-25 tires
Tread	1930 (6'4")	1930 (6'4")
Width over tires	2375 (7'10")	2470 (8'1")
A Wheelbase	2840 (9'4")	2840 (9'4")
B Hinge pin height, max. height	3635 (11'11")	3705 (12'2")
C Hinge pin height, carry position	410 (1'4")	380 (1'3")
D Ground clearance	425 (1'5")	495 (1'8")
E Hitch height	870 (2'10")	940 (3'1")
F Overall height, top of the stack	2725 (8'11")	2795 (9'2")
G Overall height, ROPS cab	3110 (10'2")	3180 (10'5")
H See dumping clearance below		
M Tilt back angle		48°

Measured with 17.5-25-12PR (L2) tires

Bucket Type			Stockpile Bucket		Excavating Bucket		Light Material Bucket
			Bolt-on Cutting Edge	Teeth	Bolt-on Cutting Edge	Teeth	Bolt-on Cutting Edge
Bucket capacity	Heaped	m ³ (yd ³)	2.0 (2.6)	2.0 (2.6)	1.7 (2.2)	1.7 (2.2)	2.4 (3.1)
	Struck	m ³ (yd ³)	1.7 (2.2)	1.7 (2.2)	1.4 (1.8)	1.4 (1.8)	2.0 (2.6)
Bucket width		mm (ft.in)	2550 (8'4")	2550 (8'4")	2550 (8'4")	2550 (8'4")	2550 (8'4")
Bucket weight		kg (lb)	785 (1,731)	740 (1,631)	740 (1,631)	700 (1,543)	875 (1,929)
Static tipping load	Straight	kg (lb)	8655 (19,081)	8705 (19,191)	8715 (19,213)	8750 (19,290)	8505 (18,750)
	Full turn (38°)	kg (lb)	7455 (16,413)	7485 (16,501)	7505 (16,546)	7525 (16,590)	7295 (16,083)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2760 (9'1")	2655 (8'9")	2815 (9'3")	2725 (8'11")	2655 (8'9")
Reach at 2130 mm (7') and 45° dump angle**		mm (ft.in)	1480 (4'10")	1500 (4'11")	1455 (4'9")	1500 (4'11")	1530 (5'0")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1000 (3'3")	1085 (3'7")	945 (3'1")	1040 (3'5")	1105 (3'8")
Reach with arm horizontal and bucket level**		mm (ft.in)	2215 (7'3")	2345 (7'8")	2135 (7'0")	2265 (7'5")	2365 (7'9")
K. Operating height (fully raised)		mm (ft.in)	4885 (16'0")	4885 (16'0")	4765 (15'8")	4765 (15'8")	4995 (16'5")
L. Overall length, bucket on ground		mm (ft.in)	6895 (22'7")	7030 (23'1")	6815 (22'4")	6945 (22'9")	7050 (23'2")
Turning radius*		mm (ft.in)	5850 (19'2")	5890 (19'4")	5830 (19'2")	5865 (19'3")	5890 (19'4")
Digging depth	0°	mm (ft.in)	135 (5.3")	155 (6.1")	135 (5.3")	155 (6.1")	135 (5.3")
	10°	mm (ft.in)	320 (1'1")	360 (1'1")	305 (1'0")	345 (1'2")	345 (1'2")
Breakout force		kN kgf (lb)	93.2 9500 (20,944)	83.0 8465 (18,662)	102.5 10450 (23,038)	90.7 10450 (23,038)	81.4 8300 (18,298)
Operating weight		kg (lb)	9630 (21,231)	9590 (21,142)	9585 (21,131)	9585 (21,131)	9715 (21,418)

* Bucket at carry, outside corner of bucket.

** At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

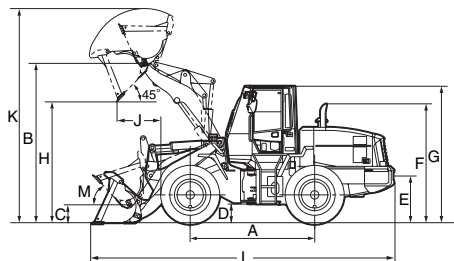
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions		Change in Reach	
	kg	lb	Straight		Full Turn		mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
			kg	lb	kg	lb								
17.5-25-12PR (L3)	+105	+231	+80	+176	+70	+154	2375	7'10"	425	1'5"	0	0"	0	0"
20.5-25-12PR (L2)	+400	+882	+305	+672	+270	+595	2470	8'1"	495	1'8"	+70	+2.8"	-70	-2.8"
20.5-25-12PR (L3)	+585	+1,290	+445	+981	+390	+860	2470	8'1"	495	1'8"	+70	+2.8"	-70	-2.8"
Install ROPS canopy (instead of cab)	-150	-331	-150	-331	-130	-287								
Additional counterweight	+300	+661	+590	+1,301	+510	+1,124								

Performance Data Dimensions

WHEEL LOADERS

WA200-5



	17.5-25 tires	20.5-25 tires
Tread	1930 (6'4")	1930 (6'4")
Width over tires	2375 (7'10")	2470 (8'1")
A Wheelbase	2840 (9'4")	2840 (9'4")
B Hinge pin height, max. height	3635 (11'11")	3705 (12'2")
C Hinge pin height, carry position	410 (1'4")	380 (1'3")
D Ground clearance	425 (1'5")	495 (1'8")
E Hitch height	870 (2'10")	940 (3'1")
F Overall height, top of the stack	2715 (8'11")	2785 (9'2")
G Overall height, ROPS cab	3110 (10'2")	3180 (10'5")
H See dumping clearance below		
M Tilt back angle		48°

Measured with 17.5-25-12PR (L2) tires

Bucket Type			Stockpile Bucket With Bolt-on Cutting Edge	Excavating Bucket With Bolt-on Cutting Edge	Light Material Bucket With Bolt-on Cutting Edge
Bucket capacity	Heaped	m ³ (yd ³)	2.0 (2.6)	1.7 (2.2)	2.4 (3.1)
	Struck	m ³ (yd ³)	1.7 (2.2)	1.4 (1.8)	2.0 (2.6)
Bucket width		mm (ft.in)	2550 (8'4")	2550 (8'4")	2550 (8'4")
Bucket weight		kg (lb)	785 (1,731)	740 (1,631)	875 (1,929)
Static tipping load	Straight	kg (lb)	8400 (18,519)	8460 (18,652)	8250 (18,188)
	Full turn (40°)	kg (lb)	7300 (16,094)	7360 (16,226)	7175 (15,818)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2760 (9'1")	2815 (9'3")	2655 (8'9")
Reach at 2130 mm (7') and 45° dump angle**		mm (ft.in)	1480 (4'10")	1455 (4'9")	1530 (5'0")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1000 (3'3")	945 (3'1")	1105 (3'8")
Reach with arm horizontal and bucket level**		mm (ft.in)	2215 (7'3")	2135 (7'0")	2365 (7'9")
K. Operating height (fully raised)		mm (ft.in)	4885 (16'0")	4765 (15'8")	4995 (16'5")
L. Overall length, bucket on ground		mm (ft.in)	6895 (22'7")	6820 (22'5")	7050 (23'2")
Turning radius*		mm (ft.in)	5650 (18'6")	5620 (18'5")	5715 (18'9")
Digging depth	0°	mm (ft.in)	135 (5.3")	135 (5.3")	135 (5.3")
	10°	mm (ft.in)	320 (1'1")	305 (1'0")	345 (1'2")
Breakout force		kgf (lb)	9500 (20,944)	10450 (23,038)	8300 (18,298)
Operating weight		kg (lb)	9470 (20,878)	9425 (20,779)	9555 (21,065)

* Bucket at carry, outside corner of bucket.

** At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Weight Changes

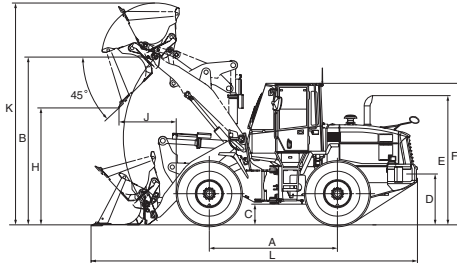
	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions		Change in Reach	
	kg	lb	Straight		Full Turn		mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
			kg	lb	kg	lb								
17.5-25-12PR (L3)	+105	+231	+80	+176	+70	+154	2375	7'10"	425	1'5"	0	0"	0	0"
20.5-25-12PR (L2)	+450	+992	+240	+529	+220	+485	2470	8'1"	495	1'8"	+70	+2.8"	-75	-3.0"
20.5-25-12PR (L3)	+665	+1,466	+355	+783	+320	+705	2470	8'1"	495	1'8"	+70	+2.8"	-75	-3.0"
Install ROPS canopy (instead of cab)	-250	-551	-250	-551	-220	-485								
Additional counterweight	+300	+661	+590	+1,301	+510	+1,124								
Air conditioner	+70	+154	+60	+132	+50	+110								

Performance Data Dimensions

WHEEL LOADERS

WA200PZ-6

Unit: mm (ft.in)



Tread	17.5-25 tires	20.5-25 tires
Width over tires	1930 (6'4")	1930 (6'4")
A Wheelbase	2375 (7'10")	2470 (8'1")
B Hinge pin height, max. height	2840 (9'4")	2840 (9'4")
C Ground clearance	3815 (12'6")	3885 (12'9")
D Hitch height	425 (1'5")	495 (1'8")
E Overall height, top of the stack	870 (2'10")	940 (3'1")
F Overall height, ROPS cab	2725 (8'11")	2795 (9'2")
	3110 (10'2")	3180 (10'5")

Bucket

Measured with 20.5-25-12PR (L2) tires

Bucket Type			Stockpile Bucket With Bolt-on Cutting Edge	
Bucket capacity	Heaped	m ³ (yd ³)	2.0 (2.6)	
	Struck	m ³ (yd ³)	1.7 (2.2)	
Bucket width		mm (ft.in)	2540 (8'4")	
Bucket weight		kg (lb)	910 (2,005)	
Static tipping load	Straight	kg (lb)	7955 (17,540)	
	Full turn (40°)	kg (lb)	7000 (15,430)	
H. Dumping clearance, max. height and 45° dump angle*		mm (ft.in)	2810 (9'3")	
Reach at 2130 mm (7') and 45° dump angle*		mm (ft.in)	1645 (5'5")	
J. Reach at max. height and 45° dump angle*		mm (ft.in)	1090 (3'7")	
Reach with boom/bucket level*		mm (ft.in)	3275 (10'9")	
K. Operating height (fully raised)		mm (ft.in)	5305 (17'5")	
L. Overall length, bucket on ground		mm (ft.in)	7310 (24'0")	
Digging depth	0°	mm (ft.in)	120 (4.7")	
	10°	mm (ft.in)	345 (1'2")	
Breakout force		kN/kgf (lb)	88.4/9010 (19,865)	
Operating weight		kg (lb)	11450 (25,240)	

* At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Weight Changes

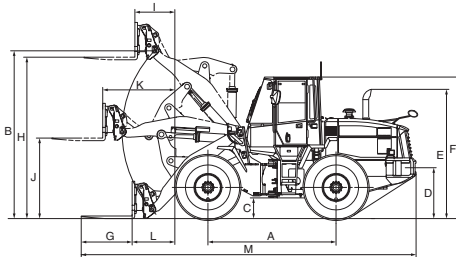
	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions		Change in Reach	
	kg	lb	Straight		Full Turn		mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
			kg	lb	kg	lb								
17.5-25-12PR (L2)	-325	-716	-215	-474	-185	-408	2375	7'10"	425	1'5"	-70	-2.8"	+75	+3.0"
17.5-25-12PR (L3)	-290	-639	-190	-419	-167	-368	2375	7'10"	425	1'5"	-70	-2.8"	+75	+3.0"
20.5-25-12PR (L3)	+165	+364	+105	+231	+95	+209	2470	8'1"	495	1'8"	0	0"	0	0"
Install ROPS canopy (instead of cab)	-167	-368	-152	-335	-134	-295								

Performance Data Dimensions

WHEEL LOADERS

WA200PZ-6

Unit: mm (ft.in)



Tread	17.5-25 tires	20.5-25 tires
Width over tires	1930 (6'4")	1930 (6'4")
A Wheelbase	2375 (7'10")	2470 (8'1")
B Hinge pin height, max. height	2840 (9'4")	2840 (9'4")
C Ground clearance	3815 (12'6")	3885 (12'9")
D Hitch height	425 (1'5")	495 (1'8")
E Overall height, top of the stack	870 (2'10")	940 (3'1")
F Overall height, ROPS cab	2725 (8'11")	2795 (9'2")

Fork

Measured with 20.5-25-12PR (L2) tires

Static tipping load – boom level Fork level, 610 mm (24") load center	Straight	kg (lb)	6050 (13,340)
	Full turn (40°)	kg (lb)	5300 (11,680)
Operating weight		kg (lb)	11460 (25,260)
G. Fork tine length		mm (ft.in)	1220 (4'0")
H. Ground to top of tine at maximum lift		mm (ft.in)	3765 (12'4")
I. Reach at maximum lift		mm (ft.in)	775 (2'7")
J. Ground to top of Tine – boom and tine level		mm (ft.in)	1780 (5'10")
K. Reach – boom and tine level		mm (ft.in)	1675 (5'6")
L. Reach – tine level on ground		mm (ft.in)	1040 (3'5")
M. Overall length – tine level on ground		mm (ft.in)	7645 (25'1")
Operating load		kg (lb)	2650 (5,840)

Operating load per SAE J1197 (Feb. 1991), 50% of static tipping load.

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator. Machine stability and operating weight affected by tire size and attachments.

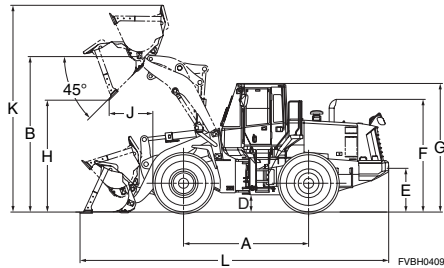
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn									
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
17.5-25-12PR (L2)	-325	-716	-215	-474	-185	-408	2375	7'10"	425	1'5"	-70	-2'8"	+75	+3.0"
17.5-25-12PR (L3)	-290	-639	-190	-419	-167	-368	2375	7'10"	425	1'5"	-70	-2'8"	+75	+3.0"
20.5-25-12PR (L3)	+165	+364	+105	+231	+95	+209	2470	8'1"	495	1'8"	0	0"	0	0"
Install ROPS canopy (instead of cab)	-167	-368	-152	-335	-134	-295								

Performance Data Dimensions

WHEEL LOADERS

WA250-6



	17.5-25 tires	20.5-25 tires
Tread	1930 (6'4")	1930 (6'4")
Width over tires	2375 (7'10")	2470 (8'1")
A Wheelbase	2900 (9'6")	2900 (9'6")
B Hinge pin height, max. height	3725 (12'3")	3795 (12'5")
C Hinge pin height, carry position	375 (1'3")	450 (1'6")
D Ground clearance	395 (1'4")	465 (1'6")
E Hitch height	880 (2'11")	950 (3'1")
F Overall height, top of the stack	2855 (9'4")	2925 (9'7")
G Overall height, ROPS cab	3130 (10'3")	3200 (10'6")
H See dumping clearance below		
M Tilt back angle		50°

Measured with 17.5-25-16PR (L2) tires

Bucket Type			Stockpile Bucket		Excavating Bucket		Light Material Bucket
			Bolt-on Cutting Edge	Teeth	Bolt-on Cutting Edge	Teeth	Bolt-on Cutting Edge
Bucket capacity	Heaped	m ³ (yd ³)	2.3 (3.0)	2.1 (2.7)	1.9 (2.5)	1.8 (2.4)	2.7 (3.5)
	Struck	m ³ (yd ³)	2.0 (2.6)	1.8 (2.4)	1.6 (2.1)	1.5 (2.0)	2.3 (3.0)
Bucket width		mm (ft.in)	2685 (8'10")	2705 (8'10")	2685 (8'10")	2705 (8'10")	2685 (8'10")
Bucket weight		kg (lb)	960 (2,116)	865 (1,907)	905 (1,995)	810 (1,786)	1050 (2,315)
Static tipping load	Straight	kg (lb)	11110 (24,495)	11205 (24,705)	11230 (24,760)	11325 (24,970)	10960 (24,160)
	Full turn (38°)	kg (lb)	9780 (21,560)	9860 (21,740)	9885 (21,790)	9965 (21,970)	9645 (21,265)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2780 (9'1")	2665 (8'9")	2855 (9'4")	2740 (9'0")	2685 (8'10")
Reach at 2130 mm (7') and 45° dump angle**		mm (ft.in)	1535 (5'0")	1560 (5'1")	1495 (4'11")	1530 (5'0")	1580 (5'2")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1055 (3'6")	1155 (3'9")	980 (3'3")	1080 (3'3")	1150 (3'9")
Reach with arm horizontal and bucket level**		mm (ft.in)	2305 (7'7")	2450 (8'0")	2200 (7'3")	2345 (7'3")	2430 (8'0")
K. Operating height (fully raised)		mm (ft.in)	4995 (16'5")	4995 (16'5")	4875 (16'0")	4875 (16'0")	5130 (16'10")
L. Overall length, bucket on ground		mm (ft.in)	7055 (23'2")	7200 (23'7")	6950 (22'10")	7095 (23'3")	7185 (23'7")
Turning radius*		mm (ft.in)	6030 (19'9")	6070 (19'11")	6015 (19'9")	6040 (19'10")	6110 (20'1")
Digging depth	0°	mm (ft.in)	145 (5.7")	160 (6.3")	145 (5.7")	160 (6.3")	145 (5.7")
	10°	mm (ft.in)	335 (1'1")	375 (1'3")	315 (1'0")	355 (1'2")	355 (1'2")
Breakout force		kN (kgf) (lb)	121 (12340) (27,205)	106 (10830) (23,875)	136 (13850) (30,534)	117 (12010) (26,475)	108 (11000) (24,251)
Operating weight		kg (lb)	10965 (24,170)	10870 (23,965)	10910 (24,050)	10815 (23,845)	11055 (24,370)

* Bucket at carry, outside corner of bucket.

** At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

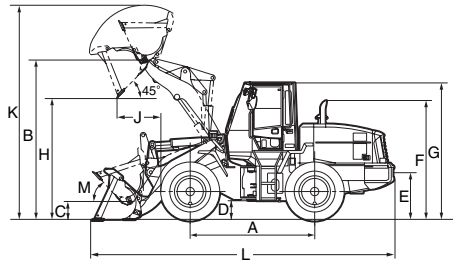
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn									
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
17.5-25-16PR (L3)	+55	+121	+45	+99	+35	+77	2375	7'10"	395	1'4"	0	0"	0	0"
20.5-25-12PR (L2)	+280	+617	+215	+474	+190	+419	2470	8'1"	465	1'6"	+70	+2.8"	-70	-2.8"
20.5-25-12PR (L3)	+430	+948	+325	+717	+280	+617	2470	8'1"	465	1'6"	+70	+2.8"	-70	-2.8"
Install ROPS canopy (instead of cab)	-150	-331	-150	-331	-130	-287								
Additional counterweight	+300	+661	+580	+1,279	+510	+1,124								

Performance Data Dimensions

WHEEL LOADERS

WA250-5



	Unit: mm (ft.in)	
Tread	17.5-25 tires	20.5-25 tires
Width over tires	1930 (6'4")	1930 (6'4")
A Wheelbase	2375 (7'10")	2470 (8'1")
B Hinge pin height, max. height	2900 (9'6")	2900 (9'6")
C Hinge pin height, carry position	3725 (12'3")	3795 (12'5")
D Ground clearance	375 (1'3")	450 (1'6")
E Hitch height	395 (1'4")	465 (1'6")
F Overall height, top of the stack	880 (2'11")	950 (3'1")
G Overall height, ROPS cab	2665 (8'9")	2735 (9'0")
H See dumping clearance below	3130 (10'3")	3200 (10'6")
M Tilt back angle		50°

Measured with 17.5-25-16PR (L2) tires

Bucket Type			Stockpile Bucket With Bolt-on Cutting Edge	Excavating Bucket With Bolt-on Cutting Edge	Light Material Bucket With Bolt-on Cutting Edge
Bucket capacity	Heaped	m ³ (yd ³)	2.3 (3.0)	1.9 (2.5)	2.7 (3.5)
	Struck	m ³ (yd ³)	2.0 (2.6)	1.6 (2.1)	2.3 (3.0)
Bucket width		mm (ft.in)	2685 (8'10")	2685 (8'10")	2685 (8'10")
Bucket weight		kg (lb)	960 (2,116)	905 (1,995)	1050 (2,315)
Static tipping load	Straight	kg (lb)	8985 (19,809)	9105 (20,073)	8825 (19,456)
	Full turn (40°)	kg (lb)	7900 (17,416)	8010 (17,659)	7910 (17,439)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2780 (9'1")	2855 (9'4")	2685 (8'10")
Reach at 2130 mm (7') and 45° dump angle**		mm (ft.in)	1535 (5'0")	1495 (4'11")	1580 (5'2")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1055 (3'6")	980 (3'3")	1150 (3'9")
Reach with arm horizontal and bucket level**		mm (ft.in)	2305 (7'7")	2200 (7'3")	2430 (8'0")
K. Operating height (fully raised)		mm (ft.in)	4995 (16'5")	4875 (16'0")	5130 (16'10")
L. Overall length, bucket on ground		mm (ft.in)	7055 (23'2")	6950 (22'10")	7185 (23'7")
Turning radius*		mm (ft.in)	5820 (19'0")	5780 (19'0")	5875 (19'3")
Digging depth	0°	mm (ft.in)	145 (5.7")	145 (5.7")	145 (5.7")
	10°	mm (ft.in)	335 (1'1")	315 (1'0")	355 (1'2")
Breakout force		kgf (lb)	12340 (27,205)	13850 (30,534)	11000 (24,251)
Operating weight		kg (lb)	10620 (23,413)	10565 (23,292)	10710 (23,611)

* Bucket at carry, outside corner of bucket.

** At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

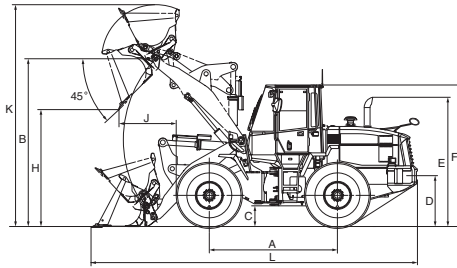
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn									
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
17.5-25-16PR (L3)	+55	+121	+45	+99	+35	+77	2375	7'10"	395	1'4"	0	0"	0	0"
20.5-25-12PR (L2)	+280	+617	+215	+474	+190	+419	2470	8'1"	465	1'6"	+70	+2.8"	-70	-2.8"
20.5-25-12PR (L3)	+430	+948	+325	+717	+280	+617	2470	8'1"	465	1'6"	+70	+2.8"	-70	-2.8"
Install ROPS canopy (instead of cab)	-250	-551	-250	-551	-220	-485								
Additional counterweight	+300	+661	+580	+1,279	+510	+1,124								
Air conditioner	+70	+154	+50	+110	+40	+88								

Performance Data Dimensions

WHEEL LOADERS

WA250PZ-6



	Unit: mm (ft.in)	
Tread	17.5-25 tires	20.5-25 tires
Width over tires	1930 (6'4")	1930 (6'4")
A Wheelbase	2375 (7'10")	2470 (8'1")
B Hinge pin height, max. height	2900 (9'6")	2900 (9'6")
C Ground clearance	3895 (12'9")	3965 (13'0")
D Hitch height	395 (1'4")	465 (1'6")
E Overall height, top of the stack	880 (2'11")	950 (3'1")
F Overall height, ROPS cab	2855 (9'4")	2925 (9'7")
	3130 (10'2")	3200 (10'6")

Bucket

Measured with 20.5-25-16PR (L2) tires

Bucket Type			Stockpile Bucket With Bolt-on Cutting Edge	
Bucket capacity	Heaped	m ³ (yd ³)	2.2 (2.9)	
	Struck	m ³ (yd ³)	2.1 (2.7)	
Bucket width		mm (ft.in)	2550 (8'4")	
Bucket weight		kg (lb)	960 (2,120)	
Static tipping load	Straight	kg (lb)	8940 (19,710)	
	Full turn (40°)	kg (lb)	7865 (17,340)	
H. Dumping clearance, max. height and 45° dump angle*		mm (ft.in)	2820 (9'3")	
Reach at 2130 mm (7') and 45° dump angle*		mm (ft.in)	1650 (5'5")	
J. Reach at max. height and 45° dump angle*		mm (ft.in)	1090 (3'7")	
Reach with boom/bucket level*		mm (ft.in)	3330 (10'11")	
K. Operating height (fully raised)		mm (ft.in)	5365 (17'7")	
L. Overall length, bucket on ground		mm (ft.in)	7410 (24'4")	
Digging depth	0°	mm (ft.in)	142 (5.6")	
	10°	mm (ft.in)	375 (1'3")	
Breakout force		kN/kgf (lb)	105/10730 (23,660)	
Operating weight		kg (lb)	12690 (27,980)	

* At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

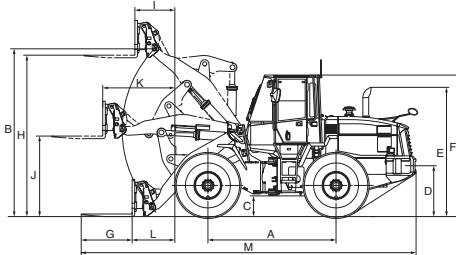
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions		Change in Reach	
	kg	lb	Straight		Full Turn		mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
			kg	lb	kg	lb								
17.5-25-16PR (L2)	-300	-661	-200	-441	-170	-375	2375	7'10"	395	1'4"	-70	-2.8"	+70	+2.8"
17.5-25-16PR (L3)	-260	-573	-170	-375	-150	-331	2375	7'10"	395	1'4"	-70	-2.8"	+70	+2.8"
20.5-25-12PR (L3)	+165	+364	+110	+243	+95	+209	2470	8'1"	465	1'6"	0	0"	0	0"
Install ROPS canopy (instead of cab)	-165	-364	-145	-320	-125	-276								

Performance Data Dimensions

WHEEL LOADERS

WA250PZ-6



	Unit: mm (ft.in)	
Tread	17.5-25 tires	20.5-25 tires
Width over tires	1930 (6'4")	1930 (6'4")
A Wheelbase	2375 (7'10")	2470 (8'1")
B Hinge pin height, max. height	2900 (9'6")	2900 (9'6")
C Ground clearance	3895 (12'9")	3965 (13'0")
D Hitch height	395 (1'4")	465 (1'6")
E Overall height, top of the stack	880 (2'11")	950 (3'1")
F Overall height, ROPS cab	2855 (9'4")	2925 (9'7")
	3130 (10'3")	3200 (10'6")

Fork

Measured with 20.5-25-12PR (L2) tires

Static tipping load – boom level Fork level, 610 mm (24") load center	Straight	kg (lb)	6875 (15,160)
	Full turn (40°)	kg (lb)	5980 (13,180)
Operating weight		kg (lb)	12275 (27,060)
G. Fork tine length		mm (ft.in)	1220 (4'0")
H. Ground to top of tine at maximum lift		mm (ft.in)	3820 (12'6")
I. Reach at maximum lift		mm (ft.in)	790 (2'7")
J. Ground to top of Tine – boom and tine level		mm (ft.in)	1820 (6'0")
K. Reach – boom and tine level		mm (ft.in)	1690 (5'7")
L. Reach – tine level on ground		mm (ft.in)	1025 (3'4")
M. Overall length – tine level on ground		mm (ft.in)	7680 (25'2")
Operating load		kg (lb)	2990 (6,590)

Operating load per SAE J1197 (Feb. 1991), 50% of static tipping load.

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator. Machine stability and operating weight affected by tire size and attachments.

Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn									
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
17.5-25-12PR (L2)	-300	-661	-140	-309	-125	-276	2375	7'10"	395	1'4"	-70	-2.8"	+70	+2.8"
17.5-25-12PR (L3)	-260	-573	-125	-276	-110	-243	2375	7'10"	395	1'4"	-70	-2.8"	+70	+2.8"
20.5-25-12PR (L3)	+165	+364	+80	+176	+70	+154	2470	8'1"	465	1'6"	0	0"	0	0"
Install ROPS canopy (instead of cab)	-165	-364	-105	-231	-90	-198								

**Performance Data
Dimensions**

WHEEL LOADERS

WA250-3

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I General-purpose bucket with bolt-on cutting edges; (Loading and excavating of soil, sand and variety of other commonly handled materials.)	2.1 (2.75)	1.8 (2.35)	2685 (8'10")	970 (2140)	9500 (20940)
II General-purpose bucket with teeth	1.9 (2.5)	1.7 (2.25)	2685 (8'10")	875 (1930)	10520 (23190)
III Excavating bucket with bolt-on cutting edges	1.9 (2.5)	1.6 (2.1)	2685 (8'10")	935 (2060)	10050 (22160)
IV Excavating bucket with teeth (Loading and excavating of crushed rock and blasted rock.)	1.8 (2.35)	1.5 (1.95)	2685 (8'10")	845 (1860)	11200 (24690)
V Light material bucket with bolt-on cutting edges; (A Lighter-weight, large-capacity bucket.)	2.7 (3.55)	2.3 (3.0)	2685 (8'10")	1030 (2270)	8000 (17640)

Tires/Buckets	Operating weight kg/lb				Static tipping load kg/lb											
					Straight				35° turn				40° full turn			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
17.5-25-12PR (L-2)	10480 23100	10385 22890	10445 23030	10355 22830	9170 20220	9295 20490	9135 20140	9250 20390	8340 18390	8455 18640	8310 18320	8410 18540	8070 17790	8180 18030	8040 17720	8140 17950
17.5-25-12PR (L-3)	10550 23260	10455 23050	10515 23180	10425 22980	9225 20340	9350 20610	9190 20260	9305 20510	8390 18500	8505 18750	8360 18430	8460 18650	8120 17900	8230 18140	8090 17840	8190 18060
20.5-25-12PR (L-2)	10810 23830	10715 23620	10775 23750	10685 23560	9420 20770	9545 21040	9385 20690	9500 20940	8570 18890	8680 19140	8535 18820	8640 19050	8290 18280	8400 18520	8260 18210	8360 18430
20.5-25-12PR (L-3)	10900 24030	10805 23820	10865 23950	10775 23750	9500 20930	9625 21220	9465 20870	9580 21120	8640 19050	8755 19300	8610 18980	8710 19200	8360 18430	8470 18670	8330 18360	8430 18580

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.

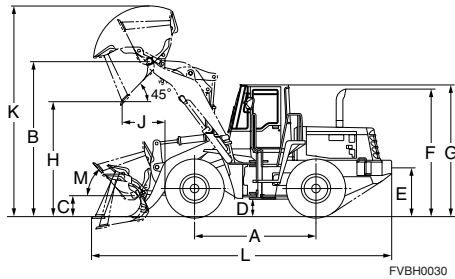
Weight Changes

	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS cab	-520 (-1150)	-450 (-990)	-395 (-870)
Install ROPS canopy 280 kg (620 lb)	-240 (-530)	-210 (-460)	-185 (-410)
Install steelcab 310 kg (680 lb)	-210 (-460)	-185 (-410)	-160 (-350)
Install additional counterweight	+280 (+620)	+590 (+1300)	+520 (+1150)

Performance Data Dimensions

WHEEL LOADERS

WA250-3



	17.5-25 tires	20.5-25 tires
Tread	1930 (6'4")	1930 (6'4")
Width over tires	2375 (7'10")	2465 (8'1")
A Wheelbase	2900 (9'6")	2900 (9'6")
B Hinge pin height, max. height	3680 (12'1")	3750 (12'4")
C Hinge pin height, carry position	400 (1'4")	370 (1'3")
D Ground clearance	395 (1'4")	465 (1'6")
E Hitch height	910 (3')	980 (3'3")
F Overall height, top of the stack	3075 (10'1")	3145 (10'4")
G Overall height, ROPS cab	3195 (10'6")	3265 (10'9")
M Tilt back angle	48°	

Measured with 17.5-25 tires

Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle*	2760 (9'1")	2660 (8'9")	2795 (9'2")	2695 (8'10")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle	1490 (4'11")	1515 (5')	1470 (4'10")	1500 (4'11")
J. Reach at max. height and 45° dump angle*	1040 (3'5")	1120 (3'8")	1005 (3'4")	1085 (3'7")
Reach with arm horizontal and bucket level	2240 (7'4")	2365 (7'9")	2190 (7'2")	2315 (7'7")
K. Operating height (fully raised)	4915 (16'2")	4915 (16'2")	4815 (15'10")	4815 (15'10")
L. Overall length	6985 (22'11")	7110 (23'4")	6935 (22'9")	7060 (23'2")
Loader clearance circle (bucket at carry, outside corner of bucket)	11560 (37'11")	11630 (38'2")	11540 (37'10")	11610 (38'1")
Digging depth	0°	140 (5.5")	155 (6.1")	140 (5.5")
	10°	325 (12.8")	360 (14.2")	315 (12.4")

* At the end of teeth or BOC

Measured with 20.5-25 tires

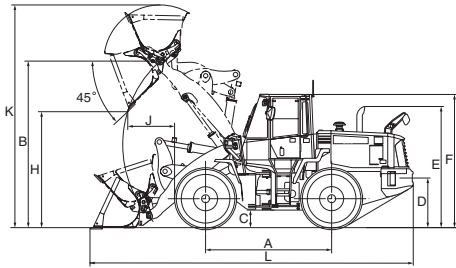
Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle*	2830 (9'3")	2730 (8'11")	2865 (9'5")	2765 (9'1")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle	1450 (4'9")	1480 (4'10")	1430 (4'8")	1460 (4'9")
J. Reach at max. height and 45° dump angle*	970 (3'2")	1050 (3'5")	935 (3'1")	1015 (3'4")
Reach with arm horizontal and bucket level	2170 (7'1")	2295 (7'6")	2120 (6'11")	2245 (7'4")
K. Operating height (fully raised)	4985 (16'4")	4985 (16'4")	4885 (16')	4885 (16')
L. Overall length	6950 (22'10")	7075 (23'3")	6900 (22'8")	7025 (23'1")
Loader clearance circle (bucket at carry, outside corner of bucket)	11540 (37'10")	11610 (38'1")	11520 (37'10")	11590 (38')
Digging depth	0°	70 (2.8")	85 (3.3")	70 (2.8")
	10°	255 (10")	290 (11.4")	245 (9.6")

* At the end of teeth or BOC

Performance Data Dimensions

WHEEL LOADERS

WA320PZ-6



Unit: mm (ft.in)

Tread	2050 (6'9")
Width over tires	2590 (8'6")
A Wheelbase	3030 (9'11")
B Hinge pin height, max. height	4005 (13'2")
C Ground clearance	425 (1'5")
D Hitch height	1095 (3'7")
E Overall height, top of the stack	2915 (9'7")
F Overall height, ROPS cab	3200 (10'6")

Bucket

Measured with 20.5-25-12PR (L2) tires

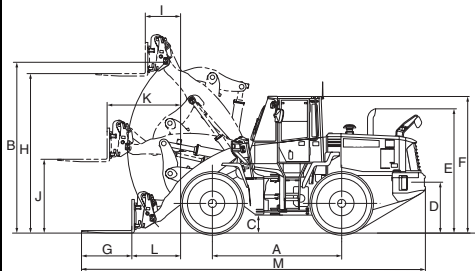
Bucket Type		Light Material Bucket With Bolt-on Cutting Edge	
Bucket capacity	Heaped	m ³ (yd ³)	2.7 (3.5)
	Struck	m ³ (yd ³)	2.3 (3.0)
Bucket width		mm (ft.in)	2740 (9'0")
Bucket weight		kg (lb)	1140 (2,510)
Static tipping load	Straight	kg (lb)	10410 (22,950)
	Full turn (40°)	kg (lb)	9160 (20,190)
H. Dumping clearance, max. height and 45° dump angle*		mm (ft.in)	2800 (9'2")
Reach at 2130 mm (7') and 45° dump angle*		mm (ft.in)	1670 (5'6")
J. Reach at max. height and 45° dump angle*		mm (ft.in)	1130 (3'8")
Reach with boom/bucket level*		mm (ft.in)	2655 (8'9")
K. Operating height (fully raised)		mm (ft.in)	5355 (17'7")
L. Overall length, bucket on ground		mm (ft.in)	7770 (25'6")
Digging depth	0°	mm (ft.in)	130 (5.1")
	10°	mm (ft.in)	370 (1'3")
Breakout force		kN/kgf (lb)	141/14410 (31,770)
Operating weight		kg (lb)	15280 (33,690)

* At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Fork

Static tipping load - boom level Fork level, 610 mm 24" load center	Straight	kg (lb)	8235 (18,150)
		kg (lb)	7055 (15,550)
	Full turn (40°)	kg (lb)	14695 (32,400)
Operating weight		mm (ft.in)	1220 (4'0")
G Fork tine length		mm (ft.in)	1220 (4'0")
H Ground to top of tine at maximum lift		mm (ft.in)	3810 (12'6")
I Reach at maximum lift		mm (ft.in)	835 (2'9")
J Ground to top of Tine - boom and tine level		mm (ft.in)	1795 (5'11")
K Reach - boom and tine level		mm (ft.in)	1730 (5'8")
L Reach - tine level on ground		mm (ft.in)	1100 (3'7")
M Overall Length - tine level on ground		mm (ft.in)	8035 (26'4")
Operating load		kg (lb)	3525 (7,770)



Operating load per SAE J1197 (Feb. 1991), 50% of static tipping load.

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator. Machine stability and operating weight affected by tire size and attachments.

Weight Changes

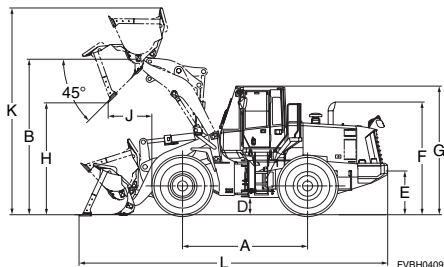
	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions		Change in Reach	
	kg	lb	Straight		Full Turn		mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
			kg	lb	kg	lb								
20.5-25-12PR (L3)	+165	+364	+105	+231	+95	+209	2590	8'6"	425	1'5"	0	0"	0	0"
Install ROPS canopy (instead of cab)	-290	-639	-135	-298	-120	-265								

Performance Data Dimensions

WHEEL LOADERS

WA320-6

Unit: mm (ft.in)



Tread	2050 (6'9")
Width over tires	2595 (8'6")
A Wheelbase	3030 (9'11")
B Hinge pin height, max. height	3905 (12'10")
C Hinge pin height, carry position	480 (1'7")
D Ground clearance	425 (1'5")
E Hitch height	1095 (3'7")
F Overall height, top of the stack	2915 (9'7")
G Overall height, ROPS cab	3200 (10'6")
H See dumping clearance below	
M Tilt back angle	47°

Measured with 20.5-25-12PR (L3) tires

Bucket Type			Stockpile Bucket		Excavating Bucket		Light Material Bucket	
			Bolt-on Cutting Edge	Teeth	Bolt-on Cutting Edge	Teeth	Bolt-on Cutting Edge	Teeth
Bucket capacity	Heaped	m³ (yd³)	2.8 (3.7)	2.6 (3.4)	2.3 (3.0)	2.1 (2.7)	3.2 (4.2)	3.0 (3.9)
	Struck	m³ (yd³)	2.4 (3.1)	2.2 (2.9)	2.0 (2.6)	1.8 (2.4)	2.8 (3.7)	2.6 (3.4)
Bucket width		mm (ft.in)	2740 (9'0")	2760 (9'1")	2740 (9'0")	2760 (9'1")	2685 (8'10")	2705 (8'10")
Bucket weight		kg (lb)	1230 (2,714)	1125 (2,480)	1195 (2,634)	1090 (2,403)	1410 (3,110)	1305 (2,877)
Static tipping load	Straight	kg (lb)	11520 (25,400)	11795 (26,005)	11735 (25,870)	11850 (26,125)	11595 (25,565)	11700 (25,795)
	Full turn (40°)	kg (lb)	10270 (22,640)	10550 (23,260)	10490 (23,130)	10600 (23,370)	10345 (22,810)	10450 (23,040)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2850 (9'4")	2740 (9'0")	2955 (9'8")	2845 (9'4")	2715 (8'11")	2665 (8'7")
Reach at 2130 mm (7') and 45° dump angle**		mm (ft.in)	1580 (5'2")	1615 (5'4")	1530 (5'0")	1565 (5'2")	1640 (5'5")	1665 (5'6")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1035 (3'5")	1125 (3'8")	930 (3'1")	1020 (3'4")	1170 (3'10")	1260 (4'2")
Reach with arm horizontal and bucket level**		mm (ft.in)	2525 (8'3")	2670 (9'1")	2380 (7'10")	2525 (8'3")	2720 (8'11")	2865 (9'5")
K. Operating height (fully raised)		mm (ft.in)	5325 (17'6")	5325 (17'6")	5135 (16'10")	5165 (16'11")	5405 (17'9")	5500 (18'1")
L. Overall length, bucket on ground		mm (ft.in)	7515 (24'8")	7600 (25'2")	7370 (24'2")	7515 (24'8")	7705 (25'3")	7850 (25'9")
Turning radius*		mm (ft.in)	6260 (20'6")	6310 (20'8")	6220 (20'5")	6270 (20'7")	6290 (20'8")	6345 (20'10")
Digging depth	0°	mm (ft.in)	85 (3.3")	100 (3.9")	85 (3.3")	100 (3.9")	85 (3.3")	100 (3.9")
	10°	mm (ft.in)	296 (11.7")	335 (1'1")	275 (10.8")	310 (1'1")	330 (1.1")	370 (1'3")
Breakout force		kN (kgf) (lb)	129 (13180) (29,060)	115 (11700) (25,795)	148 (15140) (33,380)	130 (13210) (29,125)	111 (11280) (24,870)	109 (11080) (24,430)
Operating weight		kg (lb)	13850 (30,535)	13745 (30,305)	13810 (30,450)	13705 (30,215)	14025 (30,920)	13920 (30,690)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, additional counterweight and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Weight Changes

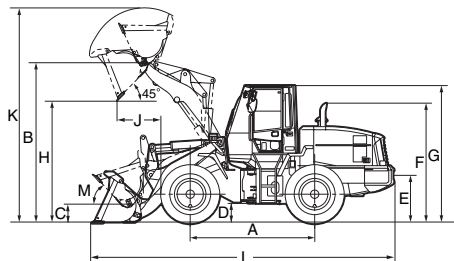
	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
20.5-25-12PR (L2)	-210	-463	-165	-364	-164	-364	2590	8'6"	425	1'5"	0	0"
Install ROPS canopy (instead of cab)	-150	-331	-150	-371	-140	-309						
Additional counterweight	+520	+1,146	+1,015	+2,238	+870	+1,918						

Performance Data Dimensions

WHEEL LOADERS

WA320-5

Unit: mm (ft.in)



Tread	2050 (6'9")
Width over tires	2585 (8'6")
A Wheelbase	3030 (9'11")
B Hinge pin height, max. height	3905 (12'10")
C Hinge pin height, carry position	480 (1'7")
D Ground clearance	425 (1'5")
E Hitch height	1095 (3'7")
F Overall height, top of the stack	2775 (9'1")
G Overall height, ROPS cab	3200 (10'6")
H See dumping clearance below	
M Tilt back angle	49°

Measured with 20.5-25-12PR (L3) tires

Bucket Type			Stockpile Bucket With Bolt-on Cutting Edge	Excavating Bucket With Bolt-on Cutting Edge	Light Material Bucket With Bolt-on Cutting Edge
Bucket capacity	Heaped	m ³ (yd ³)	2.8 (3.7)	2.3 (3.0)	3.2 (4.2)
	Struck	m ³ (yd ³)	2.4 (3.1)	2.0 (2.6)	2.8 (3.7)
Bucket width		mm (ft.in)	2740 (9'0")	2740 (9'0")	2740 (9'0")
Bucket weight		kg (lb)	1240 (2,734)	1330 (2,932)	1430 (3,153)
Static tipping load	Straight	kg (lb)	11250 (24,802)	11160 (24,604)	11060 (24,383)
	Full turn (40°)	kg (lb)	9800 (21,605)	9720 (21,429)	9630 (21,230)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2850 (9'4")	2955 (9'8")	2715 (8'11")
Reach at 2130 mm (7') and 45° dump angle**		mm (ft.in)	1570 (5'2")	1675 (5'6")	1435 (4'8")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1035 (3'5")	930 (3'1")	1170 (3'10")
Reach with arm horizontal and bucket level**		mm (ft.in)	2420 (7'11")	2275 (7'6")	2610 (8'7")
K. Operating height (fully raised)		mm (ft.in)	5330 (17'6")	5145 (16'11")	5415 (17'9")
L. Overall length, bucket on ground		mm (ft.in)	7455 (24'6")	7310 (24'0")	7645 (25'1")
Turning radius*		mm (ft.in)	6090 (20'0")	6030 (19'9")	6165 (20'2")
Digging depth	0°	mm (ft.in)	85 (3.3")	85 (3.3")	85 (3.3")
	10°	mm (ft.in)	296 (11.7")	275 (10.8")	322 (12.7")
Breakout force		kgf (lb)	13180 (29,057)	15100 (33,290)	11280 (24,868)
Operating weight		kg (lb)	13520 (29,806)	13610 (30,005)	13710 (30,225)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, additional counterweight and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
	kg	lb	Straight		Full Turn		mm	ft.in	mm	ft.in	mm	ft.in
			kg	lb	kg	lb						
20.5-25-12PR (L2)	-160	-353	-120	-265	-104	-229	2585	8'6"	425	1'5"	0	0"
Install ROPS canopy (instead of cab)	-150	-331	-107	-236	-93	-205						
Additional counterweight	+520	+1,146	+1,010	+2,227	+880	+1,940						
Air conditioner	+70	+154	+90	+198	+80	+176						

Performance Data Dimensions

WHEEL LOADERS

WA320-3

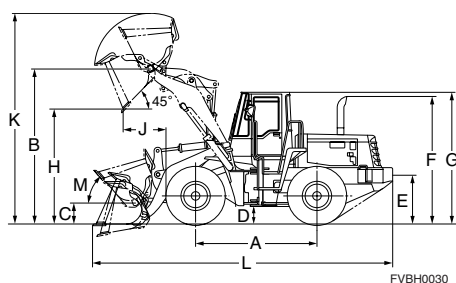
	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I General-purpose bucket with bolt-on cutting edges; (Loading and excavating of soil, sand and variety of other commonly handled materials.)	2.7 (3.55)	2.3 (3.0)	2740 (9')	1270 (2790)	12500 (27600)
II General-purpose bucket with teeth	2.5 (3.25)	2.2 (2.9)	2760 (9'1")	1150 (2540)	13600 (30000)
III Excavating bucket with bolt-on cutting edges	2.3 (3.0)	1.95 (2.55)	2740 (9')	1320 (2910)	14010 (30880)
IV Excavating bucket with teeth (Loading and excavating of crushed rock and blasted rock.)	2.1 (2.75)	1.8 (2.35)	2760 (9'1")	1210 (2670)	15490 (34150)
V Light material bucket with bolt-on cutting edges; (A Lighter-weight, large-capacity bucket.)	3.2 (4.2)	2.8 (3.7)	2740 (9')	1430 (3150)	10500 (23100)

Tires/Buckets	Operating weight kg/lb				Static tipping load kg/lb											
					Straight				35° turn				40° full turn			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
17.5-25-12PR (L-2)	13350 29440	13230 29175	13400 29550	13290 29305	11430 25210	11550 25470	11245 24800	11355 25040	10260 22625	10365 22860	10095 22255	10195 22475	9915 21865	9915 22090	9755 21510	9850 21715
17.5-25-12PR (L-3)	13460 29680	13340 29415	13510 29790	13400 29550	11515 25390	11635 25655	11330 24980	11440 25220	10335 22790	10445 23025	10170 22420	10265 22635	9990 22025	10090 22250	9830 21670	9920 21875
20.5-25-12PR (L-2)	13515 29800	13395 29540	13565 29910	13455 29670	11560 25485	11675 25750	11370 25075	11480 25315	10375 22875	10480 23110	10205 22505	10305 22720	10025 22105	10130 22335	9865 21750	9960 21955
20.5-25-12PR (L-3)	13700 30210	13580 29945	13750 30320	13640 30080	11700 25800	11820 26060	11510 25380	11620 25620	10500 23155	10605 23390	10335 22780	10430 22995	10150 22375	10250 22605	9985 22015	10080 22225

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.

Weight Changes

	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS cab	-510 (-1125)	-490 (-1080)	-465 (-1025)
Install additional counterweight 325 kg (715 lb)	+325 (+715)	+815 (+1795)	+680 (+1500)



	Unit: mm (ft.in)	
Tread	17.5-25 tires 2050 (6'9")	20.5-25 tires 2050 (6'9")
Width over tires	2530 (8'4")	2585 (8'6")
A Wheelbase	3030 (9'11")	3030 (9'11")
B Hinge pin height, max. height	3815 (12'6")	3885 (12'9")
C Hinge pin height, carry position	475 (1'7")	450 (1'6")
D Ground clearance	330 (1'11")	400 (1'4")
E Hitch height	1120 (3'8")	1190 (3'11")
F Overall height, top of the stack	3165 (10'5")	3235 (10'7")
G Overall height, ROPS cab	3245 (10'8")	3315 (10'10")
M Tilt back angle	48°	

Measured with 17.5-25 tires

	Unit: mm (ft.in)			
Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle*	2780 (9'1")	2845 (9'4")	2865 (9'5")	2730 (8'11")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle	1605 (5'3")	1535 (5')	1665 (5'6")	1590 (5'3")
J. Reach at max. height and 45° dump angle*	1105 (3'8")	1225 (4')	1020 (3'4")	1140 (3'9")
Reach with arm horizontal and bucket level	2465 (8'1")	2590 (8'6")	2345 (7'8")	2470 (8'1")
K. Operating height (fully raised)	5195 (17'1")	5195 (17'1")	5020 (16'6")	5020 (16'6")
L. Overall length	7470 (24'6")	7595 (24'11")	7350 (24'1")	7475 (24'6")
Loader clearance circle (bucket at carry, outside corner of bucket)	12160 (39'11")	12260 (40'3")	12130 (39'10")	12150 (39'10")
Digging depth	0°	160 (6.3")	175 (6.9")	160 (6.3")
	10°	365 (1'2")	400 (1'4")	355 (1'2")

* At the end of teeth or BOC

**Performance Data
Dimensions**

WHEEL LOADERS

Measured with 20.5-25 tires

Unit: mm (ft.in)

Buckets	I	II	III	IV	
H. Dumping clearance, max. height and 45° dump angle*	2850 (9'4")	2915 (9'7")	2935 (9'8")	2800(9'2")	
Reach at 2130 mm (7') cut edge clearance and 45° dump angle	1570 (5'2")	1500 (4'11")	1630 (5'4")	1565 (5'2")	
J. Reach at max. height and 45° dump angle*	1035 (3'5")	1155 (3'9")	950 (3'1")	1070 (3'6")	
Reach with arm horizontal and bucket level	2395 (7'10")	2520 (8'3")	2275 (7'6")	2400 (7'10")	
K. Operating height (fully raised)	5265 (17'3")	5265 (17'3")	5090 (16'8")	5090 (16'8")	
L. Overall length	7410 (24'4")	7535 (24'9")	7290 (23'11")	7415 (24'4")	
Loader clearance circle (bucket at carry, outside corner of bucket)	12160 (39'11")	12220 (40'1")	12090 (39'8")	12110 (39'9")	
Digging depth	0°	90 (3.5")	105 (4.1")	90 (3.5")	105 (4.1")
	10°	295 (11.6")	330 (1'1")	275 (10.8")	310 (1')

* At the end of teeth or BOC

Performance Data Dimensions

WHEEL LOADERS

WA320-3 CUSTOM

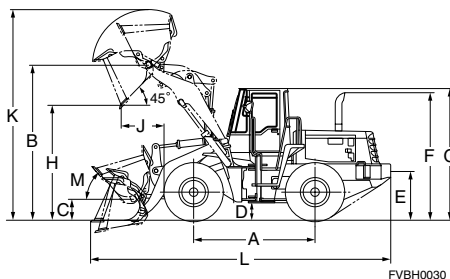
	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I General-purpose bucket with bolt-on cutting edges; (Loading and excavating of soil, sand and variety of other commonly handled materials.)	2.7 (3.53)	2.3 (3.01)	2740 (9')	1245 (2,745)	13050 (28,770)
II General-purpose bucket with teeth	2.5 (3.0)	1.95 (2.55)	2760 (9'1")	1125 (2,720)	14680 (32,360)
III Excavating bucket with bolt-on cutting edges	2.3 (3.0)	1.95 (2.55)	2740 (9')	1320 (2,910)	14010 (30,890)
IV Excavating bucket with teeth (Loading and excavating of crushed rock and blasted rock.)	2.1 (2.75)	1.8 (2.35)	2760 (9'1")	1210 (2,670)	15490 (34,150)
V Light material bucket with bolt-on cutting edges; (A Lighter-weight, large-capacity bucket.)	3.2 (4.2)	2.8 (3.7)	2740 (9')	1430 (3,150)	10450 (23,040)

Tires/ Buckets	Operating weight kg(lb)				Static tipping load kg(lb)											
					Straight				35° turn				40° full turn			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
20.5-25- 12PR (L-3)	12970 (2,8590)	12850 (2,8330)	13045 (2,8760)	12935 (2,8515)	10560 (2,3280)	10440 (2,3015)	10635 (2,3445)	10525 (2,3205)	9505 (2,0950)	9385 (2,0690)	9580 (2,1120)	9470 (2,0880)	9185 (2,0250)	9065 (1,9985)	9260 (2,0415)	9150 (2,0170)

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.

Weight Changes

	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS cab	-310 (-683)	-280 (-620)	-245 (-540)
Install additional counterweight 325 kg (715 lb)	+325 (+715)	+830 (+1,830)	+690 (+1,520)



	Unit: mm (ft.in)
Tread	2050 (6'9")
Width over tires	2585 (8'6")
A Wheelbase	3030 (9'11")
B Hinge pin height, max. height	3885 (12'9")
C Hinge pin height, carry position	450 (1'6")
D Ground clearance	400 (1'4")
E Hitch height	1190 (3'11")
F Overall height, top of the stack	3235 (10'6")
G Overall height, ROPS cab	3335 (10'11")
M Tilt back angle	48°

Measured with 17.5-25 tires

	Unit: mm (ft.in)			
Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle**	2850 (9'4")	2715 (8'11")	2935 (9'8")	2800 (9'2")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle	1570 (5'2")	1600 (5'3")	1530 (5')	1560 (5'1")
J. Reach at max. height and 45° dump angle**	1035 (3'5")	1155 (3'9")	950 (3'1")	1070 (3'6")
Reach with arm horizontal and bucket level	2395 (7'10")	2520 (8'3")	2275 (7'6")	2400 (7'10")
K. Operating height (fully raised)	5265 (17'3")	5265 (17'3")	5110 (16'9")	5110 (16'9")
L. Overall length	7410 (24'4")	7535 (24'9")	7290 (23'11")	7415 (24'4")
Turning radius*	6080 (19'11")	6125 (20'1")	6045 (19'10")	6090 (20'0")
Digging depth	0°	90 (3.5")	105 (4.1")	90 (3.5")
	10°	295 (11.6")	330 (1'13")	275 (10.8")
				310 (12'2")

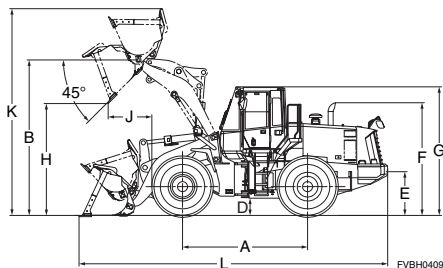
* Bucket at carry, outside corner of bucket.

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA380-6



	Unit: mm (ft.in)
Tread	2160 (7'1")
Width over tires	2695 (8'10")
A Wheelbase	3300 (10'10")
B Hinge pin height, max. height	4030 (13'3")
C Hinge pin height, carry position	520 (1'8")
D Ground clearance	390 (1'3")
E Hitch height	1085 (3'7")
F Overall height, top of the stack	2885 (9'6")
G Overall height, ROPS cab	3315 (10'11")
M Tilt back angle	50°

Measured with 20.5-25-16PR (L3) tires

Bucket Type			General Purpose Buckets		Excavating Buckets			Light Material Bucket
			Bolt-on Cutting Edges	Teeth	Bolt-on Cutting Edges	Teeth and Segments	Teeth	Bolt-on Cutting Edges
Bucket capacity	Heaped	m ³ (yd ³)	3.3 (4.3)	3.1 (4.1)	2.9 (3.8)	2.9 (3.8)	2.7 (3.5)	4.0 (5.2)
	Struck	m ³ (yd ³)	2.9 (3.8)	2.7 (3.5)	2.4 (3.1)	2.4 (3.1)	2.3 (3.0)	3.4 (4.4)
Bucket width		mm (ft.in)	2905 (9'6")	2925 (9'7")	2905 (9'6")	2925 (9'7")	2925 (9'7")	2905 (9'6")
Bucket weight		kg (lb)	1620 (3,570)	1540 (3,395)	1720 (3,790)	1765 (3,890)	1645 (3,627)	1835 (4,045)
Static tipping load	Straight	kg (lb)	13880 (30,600)	13970 (30,800)	13780 (30,380)	13710 (30,230)	13870 (30,580)	13640 (30,070)
	Full turn	kg (lb)	12000 (26,460)	12100 (26,680)	11900 (26,230)	11840 (26,100)	12000 (26,460)	11770 (25,950)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2885 (9'6")	2755 (9'0")	2960 (9'9")	2840 (9'4")	2840 (9'4")	2790 (9'2")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	1210 (4'0")	1305 (4'3")	1125 (3'8")	1225 (4'0")	1225 (4'0")	1295 (4'3")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1760 (5'9")	1790 (5'10")	1720 (5'8")	1755 (5'9")	1755 (5'9")	1800 (5'11")
Reach with arm horizontal and bucket level		mm (ft.in)	2650 (8'8")	2810 (9'3")	2510 (8'3")	2680 (8'10")	2680 (8'10")	2775 (9'1")
K. Operating height (fully raised)		mm (ft.in)	5535 (18'2")	5535 (18'2")	5420 (17'9")	5420 (17'9")	5420 (17'9")	5670 (18'7")
L. Overall length		mm (ft.in)	8195 (26'11")	8365 (27'5")	8055 (26'5")	8225 (27'0")	8225 (27'0")	8320 (27'4")
Turning radius		mm (ft.in)	7220 (23'8")	7275 (23'10")	7185 (23'7")	7240 (23'9")	7240 (23'9")	7250 (23'9")
Digging depth	0°	mm (ft.in)	125 (4.9")	140 (5.5")	125 (4.9")	140 (5.5")	140 (5.5")	125 (4.9")
	10°	mm (ft.in)	360 (14'2")	400 (15'7")	335 (13'2")	380 (15'0")	380 (15'0")	380 (15'0")
Breakout force		kN kgf (lb)	158 16100 (35,495)	170 17300 (38,140)	176.5 18000 (39,680)	183 18700 (41,225)	191 19500 (42,990)	144 14700 (32,405)
Operating weight		kg (lb)	16610 (36,620)	16540 (36,460)	16720 (36,860)	16760 (36,950)	16650 (36,710)	16850 (37,150)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.
Apply the following weight changes to operating weight and static tipping load.

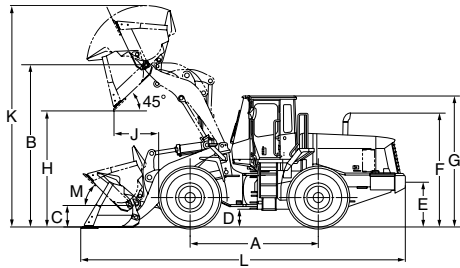
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
20.5-25-16PR (L3)	0	0	0	0	0	0	2,695	8'10"	390	1'3"	0	0"
23.5-25-16PR (L3)	+970	+2,140	+770	+1,700	+680	+1,500	2,780	9'1"	455	1'6"	+65	3"
Install additional counterweight	+340	+750	+900	+1,985	+755	+1,655						

Performance Data Dimensions

WHEEL LOADERS

WA380-5



Unit: mm (ft.in)

Tread	2160 (7'1")
Width over tires	2695 (8'10")
A Wheelbase	3300 (10'10")
B Hinge pin height, max. height	4030 (13'3")
C Hinge pin height, carry position	520 (1'8")
D Ground clearance	390 (1'3")
E Hitch height	1085 (3'7")
F Overall height, top of the stack	2885 (9'6")
G Overall height, ROPS cab	3315 (10'11")
M Tilt back angle	50°

Measured with 20.5-25-16PR (L3) tires

Bucket Type			General Purpose Buckets		Excavating Buckets			Light Material Bucket
			Bolt-on Cutting Edges	Teeth	Bolt-on Cutting Edges	Teeth and Segments	Teeth	Bolt-on Cutting Edges
Bucket capacity	Heaped	m ³ (yd ³)	3.3 (4.3)	3.1 (4.1)	2.9 (3.8)	2.9 (3.8)	2.7 (3.5)	4.0 (5.2)
	Struck	m ³ (yd ³)	2.9 (3.8)	2.7 (3.5)	2.4 (3.1)	2.4 (3.1)	2.3 (3.0)	3.4 (4.4)
Bucket width		mm (ft.in)	2905 (9'6")	2925 (9'7")	2905 (9'6")	2925 (9'7")	2925 (9'7")	2905 (9'6")
Bucket weight		kg (lb)	1645 (3,627)	1570 (3,461)	1720 (3,792)	1765 (3,891)	1645 (3,627)	1835 (4,045)
Static tipping load	Straight	kg (lb)	12880 (28,395)	12955 (28,561)	12805 (28,230)	12760 (28,131)	12880 (28,395)	12690 (27,976)
	40° full turn	kg (lb)	11200 (24,692)	11275 (24,857)	11125 (24,526)	11080 (24,427)	11200 (24,692)	11010 (24,273)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2885 (9'6")	2755 (9'0")	2960 (9'9")	2840 (9'4")	2840 (9'4")	2790 (9'2")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	1760 (5'9")	1790 (5'10")	1720 (5'8")	1755 (5'9")	1755 (5'9")	1800 (5'11")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1210 (4'0")	1305 (4'3")	1125 (3'8")	1225 (4'0")	1225 (4'0")	1295 (4'3")
Reach with arm horizontal and bucket level		mm (ft.in)	2650 (8'8")	2810 (9'3")	2535 (8'4")	2695 (8'10")	2695 (8'10")	2775 (9'1")
K. Operating height (fully raised)		mm (ft.in)	5520 (18'1")	5520 (18'1")	5405 (17'9")	5405 (17'9")	5405 (17'9")	5655 (18'7")
L. Overall length		mm (ft.in)	8195 (26'11")	8350 (27'5")	8080 (26'6")	8235 (27'0")	8235 (27'0")	8320 (27'4")
Turning radius		mm (ft.in)	6580 (21'7")	6635 (21'9")	6545 (21'6")	6600 (21'8")	6600 (21'8")	6610 (21'8")
Digging depth	0°	mm (ft.in)	125 (4.9")	140 (5.5")	125 (4.9")	140 (5.5")	140 (5.5")	125 (4.9")
	10°	mm (ft.in)	360 (1'2")	400 (1'4")	335 (1'1")	380 (1'3")	380 (1'3")	380 (1'3")
Breakout force		kN kgf (lb)	148 15080 (33,245)	160 16315 (35,968)	163 16621 (36,642)	168 17131 (37,766)	177 18048 (39,789)	135 13766 (30,348)
Operating weight		kg (lb)	16230 (35,781)	16160 (35,626)	16310 (35,957)	16350 (36,045)	16230 (35,781)	16420 (36,200)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.
Apply the following weight changes to operating weight and static tipping load.

Weight Changes

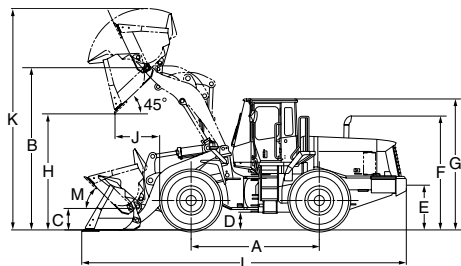
	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
20.5-25-16PR (L3)	0	0	0	0	0	0	2,695	8'10"	390	1'3"	0	0"
23.5-25-16PR (L3)	+1080	+2,381	+740	+1,632	+650	+1,433	2,780	9'1"	460	1'6"	+65	2.6"
Remove ROPS cab	-660	-1,455	-650	-1,433	-625	-1,378						
Install front/rear compartment	+120	+265	+120	+265	+115	+254						
Install additional counterweight	+325	+717	+860	+1,896	+715	+1,577						

Performance Data Dimensions

WHEEL LOADERS

WA380-5 (with high lift boom)

Unit: mm (ft.in)



Tread	2160 (7'1")
Width over tires	2695 (8'10")
A Wheelbase	3330 (10'10")
B Hinge pin height, max. height	4500 (15'0")
C Hinge pin height, carry position	685 (2'3")
D Ground clearance	390 (1'3")
E Hitch height	1085 (3'7")
F Overall height, top of the stack	2885 (9'6")
G Overall height, ROPS cab	3315 (10'15")
M Tilt back angle	50°

Measured with 20.5-25-16PR (L3) tires

Bucket Type			High-lift Bucket With Bolt-on Cutting Edge	High-lift Bucket With Teeth
Bucket capacity	Heaped	m ³ (yd ³)	2.9 (3.8)	2.7 (3.5)
	Struck	m ³ (yd ³)	2.4 (3.1)	2.3 (3.0)
Bucket width		mm (ft.in)	2905 (9'6")	2915 (9'7")
Bucket weight		kg (lb)	1720 (3,792)	1645 (3,627)
Static tipping load	Straight	kg (lb)	12020 (26,500)	12105 (26,685)
	Full turn (40°)	kg (lb)	10460 (23,060)	10535 (23,225)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3510 (11'6")	3400 (11'2")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	2240 (7'4")	2305 (7'7")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1250 (4'1")	1360 (4'6")
Reach with arm horizontal and bucket level		mm (ft.in)	3000 (9'10")	3155 (10'4")
Operating height (fully raised)		mm (ft.in)	5920 (19'5")	5920 (19'5")
Overall length		mm (ft.in)	8800 (28'10")	8955 (29'5")
Turning radius*		mm (ft.in)	6800 (22'4")	6855 (22'6")
Digging depth	0°	mm (ft.in)	180 (7")	195 (8")
	10°	mm (ft.in)	385 (1'3")	415 (1'4")
Breakout force		kN	161.5	176
		kgf	16470	17950
		(lb)	(36,310)	(39,573)
Operating weight		kg (lb)	17255 (38,040)	17180 (37,875)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments. Apply the following weight changes to operating weight and static tipping load.

Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
20.5-25-16PR (L3)	0	0	0	0	0	0	2695	8'10"	390	1'3"	0	0"
23.5-25-16PR (L3)	+1080	+2,381	+740	+1,632	+650	+1,433	2780	9'1"	460	1'6"	+65	+2.6"
Remove ROPS cab	-660	-1,455	-650	-1,433	-625	-1,378						
Install front/rear compartment	+120	+265	+120	+265	+115	+254						
Install additional counterweight	+325	+717	+860	+1,896	+715	+1,577						

**Performance Data
Dimensions**

WHEEL LOADERS

WA380-3

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I General-purpose bucket with bolt-on cutting edges; (Loading and excavating of soil, sand and variety of other commonly handled materials.)	3.2 (4.2)	2.7 (3.55)	2905 (9'6")	1630 (3,590)	15100 (33,300)
II General-purpose bucket with teeth	3.0 (3.9)	2.6 (3.4)	2920 (9'7")	1560 (3,440)	16300 (36,000)
III Excavating bucket with bolt-on cutting edges	2.8 (3.65)	2.35 (3.07)	2905 (9'6")	1710 (3,770)	16600 (36,600)
IV Excavating bucket with teeth (Loading and excavating of crushed rock and blasted rock.)	2.6 (3.4)	2.2 (2.9)	2920 (9'7")	1640 (3,620)	18100 (39,900)
V Light material bucket with bolt-on cutting edges; (A Lighter-weight, large-capacity bucket.)	4.0 (5.25)	3.4 (4.45)	2905 (9'6")	1830 (4,030)	13100 (28,900)

Tires/Buckets	Operating weight kg(lb)			
	I	II	III	IV
20.5-25-16PR (L-2)	16285 (3,5910)	16215 (35,755)	16365 (36,085)	16295 (35,930)
20.5-25-16PR (L-3)	16480 (36,340)	16410 (36,185)	16560 (36,515)	16490 (36,360)
23.5-25-12PR (L-2)	17030 (37,550)	16960 (37,400)	17110 (37,730)	17040 (37,575)
23.5-25-12PR (L-3)	17335 (38,225)	17265 (38,070)	17415 (38,400)	17345 (38,250)
23.5-25-16PR (L-2)	17070 (37,640)	17000 (37,485)	17150 (37,820)	17080 (37,660)
23.5-25-16PR (L-3)	17445 (38,470)	17375 (38,315)	17525 (38,645)	17455 (38,490)
23.5-25-20PR (L-2)	17135 (37,785)	17065 (37,630)	17215 (37,960)	17145 (37,805)
23.5-25-20PR (L-3)	17445 (38,470)	17375 (38,315)	17525 (38,645)	17455 (38,490)

Tires/Buckets	Static tipping load kg(lb)											
	Straight				35° turn				40° full turn			
	I	II	III	IV	I	II	III	IV	I	II	III	IV
20.5-25-16PR (L-2)	12480 (27,515)	12550 (27,665)	12385 (27,305)	12450 (27,455)	11180 (24,650)	11240 (24,790)	11090 (24,460)	11155 (24,600)	10805 (23,830)	10865 (23,960)	10720 (23,645)	10780 (23,775)
20.5-25-16PR (L-3)	12630 (27,845)	12700 (27,995)	12530 (27,635)	12600 (27,785)	11320 (24,950)	11375 (25,080)	11230 (24,760)	11290 (24,895)	10935 (24,115)	10995 (24,245)	10850 (23,930)	10910 (24,060)
23.5-25-12PR (L-2)	13050 (28,780)	13120 (28,930)	12955 (28,565)	13025 (28,720)	11700 (25,785)	11755 (25,920)	11610 (25,595)	11670 (25,730)	11300 (24,925)	11360 (25,055)	11220 (24,740)	11280 (24,870)
23.5-25-12PR (L-3)	13285 (29,295)	13355 (29,445)	13190 (29,085)	13260 (29,235)	11910 (26,250)	11965 (26,385)	11820 (26,060)	11880 (26,195)	11505 (25,370)	11565 (25,500)	11420 (25,190)	11480 (25,320)
23.5-25-16PR (L-2)	13080 (28,845)	13150 (28,995)	12985 (28,635)	13055 (28,785)	11725 (25,845)	11780 (25,980)	11635 (25,655)	11695 (25,790)	11330 (24,980)	11390 (25,110)	11245 (24,800)	11305 (24,930)
23.5-25-16PR (L-3)	13370 (29,480)	13440 (29,635)	13275 (29,270)	13345 (29,425)	11980 (26,415)	12040 (26,550)	11895 (26,225)	11955 (26,360)	11580 (25,535)	11640 (25,665)	11495 (25,350)	11555 (25,480)
23.5-25-20PR (L-2)	13130 (28,955)	13200 (29,105)	13035 (28,745)	13105 (28,895)	11770 (25,945)	11830 (26,080)	11680 (25,755)	11740 (25,890)	11370 (25,080)	11430 (25,210)	11290 (24,895)	11350 (25,025)
23.5-25-20PR (L-3)	13370 (294,80)	13440 (29,635)	13275 (29,270)	13345 (29,425)	11980 (26,415)	12040 (26,550)	11895 (26,225)	11955 (26,360)	11580 (25,535)	11640 (25,665)	11495 (25,350)	11555 (25,480)

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS cab and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.

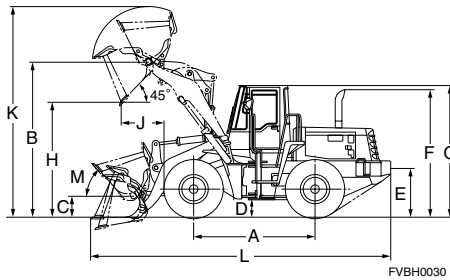
Weight Changes

	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS cab	-670 (-1,475)	-610 (-1,345)	-590 (-1,300)
Install additional counterweight 325 kg (715 lb)	+325 (+715)	+830 (+1,835)	+690 (+1,520)

**Performance Data
Dimensions**

WHEEL LOADERS

WA380-3



		Unit: mm (ft.in)	
	Tread	20.5-25 tires	23.5-25 tires
	Width over tires	2160 (7'1")	2160 (7'1")
	A Wheelbase	2695 (8'10")	2780 (9'1")
	B Hinge pin height, max. height	3200 (10'6")	3200 (10'6")
	C Hinge pin height, carry position	4030 (13'3")	4095 (13'5")
	D Ground clearance	520 (1'8")	505 (1'8")
	E Hitch height	390 (1'3")	455 (1'6")
	F Overall height, top of the stack	1085 (3'7")	1150 (3'9")
	G Overall height, ROPS cab	3280 (10'9")	3345 (11')
	M Tilt back angle	3315 (10'10")	3380 (11'1")
		48°	

Measured with 20.5-25 tires

	Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle**		2925 (9'7")	2800 (9'2")	3005 (9'10")	2880 (9'5")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		1745 (5'9")	1780 (5'10")	1705 (5'7")	1740 (5'9")
J. Reach at max. height and 45° dump angle**		1170 (3'10")	1270 (4'2")	1090 (3'7")	1190 (3'11")
Reach with arm horizontal and bucket level		2590 (8'6")	2745 (9')	2480 (8'2")	2635 (8'8")
K. Operating height (fully raised)		5455 (17'11")	5455 (17'11")	5310 (17'5")	5310 (17'5")
L. Overall length*		7965 (26'2")	8120 (26'8")	7855 (25'9")	8010 (26'3")
Turning radius		6430 (21'1")	6470 (21'3")	6400 (21'0")	6440 (21'2")
Digging depth	0°	125 (4.9")	145 (5.7")	125 (4.9")	145 (5.7")
	10°	345 (1'2")	390 (1'3")	325 (1'1")	370 (1'3")

Measured with 23.5-25 tires

	Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle**		2990 (9'10")	2865 (9'5")	3070 (10'1")	2945 (9'8")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		1715 (5'8")	1750 (5'9")	1675 (5'6")	1710 (5'7")
J. Reach at max. height and 45° dump angle**		1110 (3'8")	1210 (4')	1030 (3'5")	1130 (3'8")
Reach with arm horizontal and bucket level		2530 (8'4")	2685 (9')	2420 (7'11")	2575 (8'5")
K. Operating height (fully raised)		5520 (18'1")	5520 (18'1")	5375 (17'8")	5375 (17'8")
L. Overall length		7905 (25'11")	8060 (26'5")	7795 (25'7")	7950 (26'1")
Turning radius*		6405 (21'0")	6455 (21'2")	6375 (20'11")	6415 (21'1")
Digging depth	0°	65 (2.6")	80 (3.1")	65 (2.6")	80 (3.1")
	10°	280 (11")	325 (1'1")	260 (10.2")	305 (1')

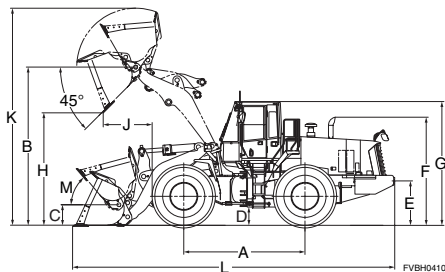
* Bucket at carry, outside corner of bucket.

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA430-6



	Unit: mm (ft.in)
Tread	2200 (7'3")
Width over tires	2820 (9'3")
A Wheelbase	3300 (10'10")
B Hinge pin height, max. height	4165 (13'8")
C Hinge pin height, carry position	520 (1'8")
D Ground clearance	455 (1'6")
E Hitch height	1150 (3'9")
F Overall height, top of the stack	2940 (9'8")
G Overall height, ROPS cab	3390 (11'1")
M Tilt back angle	46°

Measured with 20.5-25-16PR (L3) tires

Bucket Type			General Purpose Buckets		Excavating Buckets			Light Material Bucket
			Bolt-on Cutting Edges	Teeth	Bolt-on Cutting Edges	Teeth and Segments	Teeth	Bolt-on Cutting Edges
Bucket capacity	Heaped	m ³ (yd ³)	3.5 (4.6)	3.3 (4.3)	3.3 (4.3)	3.3 (4.3)	3.1 (4.1)	4.6 (6.0)
	Struck	m ³ (yd ³)	3.0 (3.9)	2.8 (3.7)	2.8 (3.7)	2.8 (3.7)	2.6 (3.4)	4.0 (5.2)
Bucket width		mm (ft.in)	3050 (10'0")	3065 (10'1")	3050 (10'0")	3065 (10'1")	3065 (10'1")	3050 (10'0")
Bucket weight		kg (lb)	1735 (3,820)	1665 (3,670)	1810 (3,990)	1870 (4,120)	1740 (3,840)	1990 (4,390)
Static tipping load	Straight	kg (lb)	13980 (30,820)	14320 (31,570)	13955 (30,770)	13885 (30,610)	14150 (31,200)	13665 (30,130)
	Full turn (40°)	kg (lb)	12990 (28,640)	13280 (29,280)	12985 (28,630)	12940 (28,530)	13145 (28,980)	12785 (28,190)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3020 (9'11")	2895 (9'6")	3090 (10'2")	2970 (9'9")	2970 (9'9")	2870 (9'5")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	1835 (6'0")	1870 (6'2")	1795 (5'11")	1835 (6'0")	1835 (6'0")	1910 (6'3")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1190 (3'11")	1290 (4'3")	1120 (3'8")	1215 (4'0")	1215 (4'0")	1340 (4'5")
Reach with arm horizontal and bucket level		mm (ft.in)	2685 (8'10")	2840 (9'4")	2580 (8'6")	2735 (9'0")	2735 (9'0")	2895 (9'6")
K. Operating height (fully raised)		mm (ft.in)	5645 (18'6")	5645 (18'6")	5590 (18'4")	5590 (18'4")	5590 (18'4")	5945 (19'6")
L. Overall length		mm (ft.in)	8305 (27'3")	8460 (27'9")	8200 (26'11")	8355 (27'5")	8355 (27'5")	8515 (27'11")
Turning radius*		mm (ft.in)	7335 (24'1")	7380 (24'3")	7295 (23'11")	7350 (24'1")	7350 (24'1")	7380 (24'3")
Digging depth	0°	mm (ft.in)	120 (4.7")	135 (5.3")	120 (4.7")	135 (5.3")	135 (5.3")	120 (4.7")
	10°	mm (ft.in)	350 (1'2")	395 (1'4")	330 (1'1")	375 (1'3")	375 (1'3")	385 (1'3")
Breakout force		kN kgf (lb)	180 18400 (40,565)	194 19800 (43,650)	196 20000 (44,090)	198 20200 (44,530)	213 21700 (47,840)	155 15800 (34,830)
Operating weight		kg (lb)	18290 (40,320)	18220 (40,170)	18365 (40,490)	18425 (40,620)	18295 (40,330)	18545 (40,880)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments. Apply the following weight changes to operating weight and static tipping load.

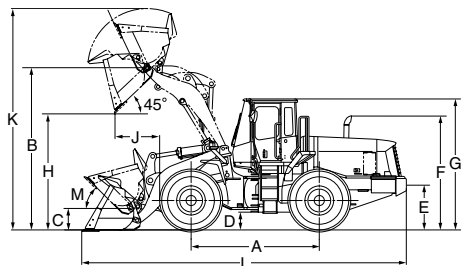
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
23.5-25-16PR (L3)	0	0	0	0	0	0	2820	9'3"	455	1'6"	0	0"
26.5-25-16PR (L3)	+420	+925	+330	+730	+290	+640	2940	9'8"	620	2'0"	+65	+2.6"
Install additional counterweight	+340	+750	+860	+1,900	+720	+1,590						

Performance Data Dimensions

WHEEL LOADERS

WA430-5



	Unit: mm (ft.in)
Tread	2200 (7'3")
Width over tires	2820 (9'3")
A Wheelbase	3350 (11'0")
B Hinge pin height, max. height	4250 (13'11")
C Hinge pin height, carry position	520 (1'8")
D Ground clearance	460 (1'6")
E Hitch height	1150 (3'9")
F Overall height, top of the stack	2965 (9'9")
G Overall height, ROPS cab	3380 (11'1")
M Tilt back angle	50°

Measured with 20.5-25-16PR (L3) tires

Bucket Type			General Purpose Buckets		Excavating Buckets			Light Material Bucket	Rock Bucket
			Bolt-on Cutting Edges	Teeth	Bolt-on Cutting Edges	Teeth and Segments	Teeth	Bolt-on Cutting Edges	Teeth
Bucket capacity	Heaped	m ³ (yd ³)	3.7 (4.8)	3.5 (4.6)	3.3 (4.3)	3.3 (4.3)	3.1 (4.1)	4.6 (6.0)	3.1 (4.1)
	Struck	m ³ (yd ³)	3.2 (4.2)	3.0 (3.9)	2.8 (3.7)	2.8 (3.7)	2.6 (3.4)	4.0 (5.2)	2.7 (3.5)
Bucket width		mm (ft.in)	3050 (10'0")	3065 (10'1")	3050 (10'0")	3065 (10'1")	3065 (10'1")	3050 (10'0")	3050 (10'0")
Bucket weight		kg (lb)	1745 (3,847)	1670 (3,682)	1835 (4,045)	1885 (4,156)	1760 (3,880)	1980 (4,365)	1830 (4,034)
Static tipping load	Straight	kg (lb)	13800 (30,423)	13875 (30,589)	13710 (30,225)	13660 (30,115)	13785 (30,390)	13565 (29,905)	13715 (30,236)
	Full turn (40°)	kg (lb)	12000 (26,445)	12075 (26,621)	11910 (26,257)	11860 (26,147)	11985 (26,422)	11765 (25,937)	11915 (26,268)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3125 (10'3")	3000 (9'10")	3175 (10'5")	3055 (10'0")	3055 (10'0")	2955 (9'8")	2890 (9'6")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	2615 (8'7")	2660 (8'9")	2585 (8'6")	2630 (8'8")	2630 (8'8")	2710 (8'11")	2730 (8'11")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1110 (3'8")	1210 (4'0")	1055 (3'6")	1155 (3'9")	1155 (3'9")	1280 (4'2")	1335 (4'5")
Reach with arm horizontal and bucket level		mm (ft.in)	3425 (11'3")	3585 (11'9")	3350 (11'0")	3505 (11'6")	3505 (11'6")	3665 (12'0")	3750 (12'4")
K. Operating height (fully raised)		mm (ft.in)	5825 (19'1")	5825 (19'1")	5745 (18'10")	5745 (18'10")	5745 (18'10")	6085 (20'0")	5745 (18'10")
L. Overall length		mm (ft.in)	8375 (27'6")	8530 (28'0")	8295 (27'3")	8455 (27'9")	8455 (27'9")	8610 (28'3")	8700 (28'7")
Turning radius*		mm (ft.in)	6720 (22'1")	6765 (22'2")	6685 (21'11")	6743 (22'1")	6743 (22'1")	6775 (22'3")	6743 (22'1")
Digging depth	0°	mm (ft.in)	120 (4.7")	135 (5.3")	120 (4.7")	135 (5.3")	135 (5.3")	120 (4.7")	125 (4.9")
	10°	mm (ft.in)	345 (1'2")	390 (1'3")	335 (1'1")	375 (1'3")	375 (1'3")	385 (1'3")	410 (1'4")
Breakout force		kN (kgf) (lb)	180 (1840) (40,565)	195 (1990) (43,870)	193 (1970) (43,430)	195 (1990) (43,870)	209 (2130) (46,960)	151 (1540) (33,950)	173 (1760) (38,800)
Operating weight		kg (lb)	18350 (40,455)	18275 (40,290)	18440 (40,655)	18490 (40,765)	18365 (40,485)	18585 (40,970)	18435 (40,640)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments. Apply the following weight changes to operating weight and static tipping load.

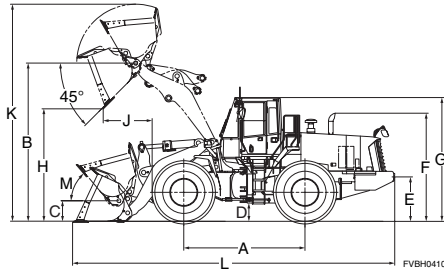
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
23.5-25-16PR (L3)	0	0	0	0	0	0	2820	9'3"	460	1'6"	0	0"
26.5-25-16PR (L3)	+420	+925	+330	+730	+290	+640	2940	9'8"	525	1'9"	+65	+2.6"
Remove ROPS cab	-660	-1,455	-635	-1,400	-605	-1,335						
Install front/rear compartment	+120	+265	+115	+255	+110	+245						
Install additional counterweight	+325	+715	+880	+1,940	+735	+1,620						

Performance Data Dimensions

WHEEL LOADERS

WA470-6



Unit: mm (ft.in)

Tread	2300 (7'7")
Width over tires	3010 (9'11")
A Wheelbase	3450 (11'4")
B Hinge pin height, max. height	4360 (14'4")
C Hinge pin height, carry position	585 (1'11")
D Ground clearance	525 (1'9")
E Hitch height	1240 (4'1")
F Overall height, top of the stack	3080 (10'1")
G Overall height, ROPS cab	3500 (11'6")
M Tilt back angle	50°

Measured with 26.5-25-16PR (L3) tires

Bucket Type		General Purpose Buckets						Rock Bucket	Loose Material Bucket	Light Material Bucket
		Stockpile		Excavating						
		Bolt-on Cutting Edges	Teeth	Bolt-on Cutting Edges	Teeth and Segments	Teeth	Teeth			
Bucket capacity	Heaped	m ³ (yd ³)	4.2 (5.5)	3.9 (5.1)	3.8 (5.0)	3.8 (5.0)	3.6 (4.7)	3.6 (4.7)	4.4 (5.8)	5.2 (6.8)
	Struck	m ³ (yd ³)	3.5 (4.6)	3.3 (4.3)	3.2 (4.2)	3.2 (4.2)	3.1 (4.1)	3.1 (4.1)	3.9 (5.1)	4.5 (5.9)
Bucket width		mm (ft.in)	3170 (10'5")	3190 (10'6")	3170 (10'5")	3190 (10'6")	3190 (10'6")	3170 (10'5")	3170 (10'5")	3170 (10'5")
Bucket weight		kg (lb)	2050 (4,519)	1970 (4,343)	2150 (4,740)	2200 (4,850)	2070 (4,564)	2165 (4,773)	2110 (4,652)	2185 (4,817)
Static tipping load	Straight	kg (lb)	18295 (40,330)	18370 (40,500)	18205 (40,130)	18160 (40,040)	18275 (40,290)	18190 (40,100)	18240 (40,210)	18175 (40,070)
	Full turn (40°)	kg (lb)	15720 (34,660)	15795 (34,820)	15630 (34,460)	15585 (34,360)	15705 (34,620)	15615 (34,420)	15665 (34,530)	15600 (34,390)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3185 (10'5")	3060 (10'0")	3235 (10'7")	3110 (10'2")	3110 (10'2")	2975 (9'9")	3055 (10'0")	3035 (9'11")
Reach at 2130 mm (7") clearance and 45° dump angle		mm (ft.in)	1935 (6'4")	1975 (6'6")	1905 (6'3")	1950 (6'5")	1950 (6'5")	2035 (6'8")	2010 (6'7")	2020 (6'8")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1235 (4'1")	1335 (4'5")	1185 (3'11")	1285 (4'3")	1285 (4'3")	1435 (4'8")	1365 (4'6")	1385 (4'7")
Reach with arm horizontal and bucket level		mm (ft.in)	2755 (9'0")	2910 (9'7")	2685 (8'10")	2840 (9'4")	2840 (9'4")	3040 (10'0")	2940 (9'8")	2965 (9'9")
K. Operating height (fully raised)		mm (ft.in)	5960 (19'7")	5960 (19'7")	5875 (19'3")	5875 (19'3")	5875 (19'3")	5875 (19'3")	5960 (19'7")	6185 (20'4")
L. Overall length		mm (ft.in)	8825 (28'11")	8980 (29'6")	8755 (28'9")	8910 (29'3")	8910 (29'3")	9210 (30'3")	9010 (29'7")	9035 (29'8")
Turning radius*		mm (ft.in)	7640 (25'1")	7690 (25'3")	7620 (25'0")	7670 (25'2")	7670 (25'2")	7640 (25'1")	7685 (25'3")	7690 (25'3")
Digging depth	0°	mm (ft.in)	80 (3.1")	100 (3.9")	80 (3.1")	100 (3.9")	100 (3.9")	85 (3.3")	80 (3.1")	80 (3.1")
	10°	mm (ft.in)	315 (1'0")	360 (1'2")	305 (1'0")	350 (1'2")	350 (1'2")	370 (1'3")	345 (1'2")	350 (1'2")
Breakout force		kN (kgf (lb))	192 (19600 (43,160))	207 (21120 (46,560))	203 (20710 (45,660))	209 (21330 (47,020))	220 (22450 (49,490))	190 (19390 (42,750))	168 (17140 (37,790))	165 (16840 (37,130))
Operating weight		kg (lb)	22960 (50,620)	22880 (50,440)	23060 (50,840)	23110 (50,950)	22980 (50,660)	23075 (50,870)	23,020 (50,750)	23095 (50,910)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
 - Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
 - Machine stability and operating weight affected by counterweight, tire size, and other attachments.
- Apply the following weight changes to operating weight and static tipping load.

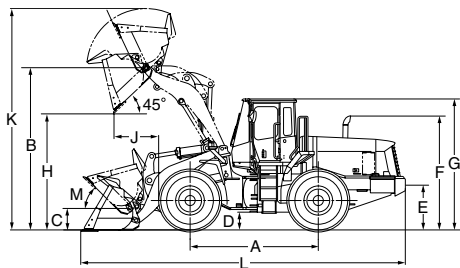
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
	kg	lb	Straight		Full Turn		mm	ft.in	mm	ft.in	mm	ft.in
			kg	lb	kg	lb						
23.5-25-20PR (L3)	-305	-672	-240	-529	-210	-463	2920	9'7"	460	1'6"	-65	-3"
23.5-25-20PR (L2)	-615	-1355	-480	-1058	-420	-926	2920	9'7"	460	1'6"	-65	-3"
26.5-25-16PR (L3)	0	0	0	0	0	0	3010	9'11"	525	1'9"	0	0"
26.5-25-20PR (L4)	+425	+937	+330	+728	+290	+639	3010	9'11"	525	1'9"	0	0"
Install additional counterweight	+400	+880	+1070	+2,358	+930	+2,050						

Performance Data Dimensions

WHEEL LOADERS

WA470-5



Unit: mm (ft.in)

Tread	2300 (7'7")
Width over tires	2920 (9'7")
A Wheelbase	3450 (11'4")
B Hinge pin height, max. height	4295 (14'1")
C Hinge pin height, carry position	585 (1'11")
D Ground clearance	460 (1'6")
E Hitch height	1175 (3'10")
F Overall height, top of the stack	3015 (9'11")
G Overall height, ROPS cab	3395 (11'2")
M Tilt back angle	50°

Measured with 23.5-25-20PR (L3) tires

Bucket Type			General Purpose Buckets					Rock Bucket	Loose Material Bucket	Light Material Bucket
			Stockpile		Excavating					
			Bolt-on Cutting Edges	Teeth	Bolt-on Cutting Edges	Teeth and Segments	Teeth			
Bucket capacity	Heaped	m ³ (yd ³)	4.2 (5.5)	3.9 (5.1)	3.8 (5.0)	3.8 (5.0)	3.6 (4.7)	3.6 (4.7)	4.6 (6.0)	5.2 (6.8)
	Struck	m ³ (yd ³)	3.5 (4.6)	3.3 (4.3)	3.2 (4.2)	3.2 (4.2)	3.1 (4.1)	3.1 (4.1)	3.9 (5.1)	4.5 (5.9)
Bucket width		mm (ft.in)	3170 (10'5")	3190 (10'6")	3170 (10'5")	3190 (10'6")	3170 (10'6")	3170 (10'5")	3170 (10'5")	3170 (10'5")
Bucket weight		kg (lb)	2050 (4,519)	1970 (4,343)	2150 (4,740)	2200 (4,850)	2070 (4,564)	2165 (4,773)	2110 (4,652)	2185 (4,817)
Static tipping load	Straight	kg (lb)	16700 (36,817)	16780 (36,993)	16490 (36,354)	16440 (36,244)	16570 (36,530)	16475 (36,321)	16530 (36,442)	16455 (36,277)
	Full turn (40°)	kg (lb)	14530 (32,033)	14610 (32,209)	14325 (31,581)	14275 (31,471)	14405 (31,757)	14310 (31,548)	14365 (31,669)	14290 (31,504)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3120 (10'3")	2995 (9'10")	3170 (10'5")	3045 (10'0")	3045 (10'0")	2910 (9'7")	2990 (9'10")	2970 (9'9")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	1980 (6'6")	2020 (6'8")	1950 (6'5")	1995 (6'7")	1955 (6'5")	2080 (6'10")	2050 (6'9")	2060 (6'9")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1305 (4'3")	1405 (4'7")	1255 (4'1")	1355 (4'5")	1355 (4'5")	1505 (4'11")	1435 (4'8")	1455 (4'9")
Reach with arm horizontal and bucket level		mm (ft.in)	2820 (9'3")	2975 (9'9")	2750 (9'0")	2905 (9'6")	2905 (9'6")	3105 (10'2")	3005 (9'10")	3030 (9'11")
K. Operating height (fully raised)		mm (ft.in)	5895 (19'4")	5895 (19'4")	5810 (19'1")	5810 (19'1")	5810 (19'1")	5810 (19'1")	5895 (19'4")	6120 (20'1")
L. Overall length		mm (ft.in)	8815 (28'11")	8970 (29'5")	8745 (28'8")	8900 (29'2")	8900 (29'2")	9100 (29'10")	9000 (29'6")	9025 (29'7")
Turning radius*		mm (ft.in)	6980 (22'11")	7040 (23'1")	6965 (22'10")	7020 (23'0")	7020 (23'0")	6985 (22'11")	7030 (23'1")	7040 (23'1")
Digging depth	0°	mm (ft.in)	145 (5.7")	165 (6.5")	145 (5.7")	165 (6.5")	165 (6.5")	150 (5.9")	145 (5.7")	145 (5.7")
	10°	mm (ft.in)	380 (1'3")	425 (1'5")	370 (1'3")	415 (1'4")	415 (1'4")	435 (1'5")	410 (1'4")	415 (1'4")
Breakout force		kN kgf (lb)	192 19580 (43,162)	207 21110 (46,534)	203 20710 (45,634)	209 21320 (46,983)	220 22440 (49,456)	190 19380 (42,712)	168 17140 (37,766)	165 16830 (37,092)
Operating weight		kg (lb)	21600 (47,619)	21520 (47,443)	21700 (47,840)	21750 (47,950)	21620 (47,663)	21715 (47,873)	21600 (47,752)	21735 (47,917)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.
Apply the following weight changes to operating weight and static tipping load.

Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
23.5-25-20PR (L3)	0	0	0	0	0	0	2920	9'7"	460	1'6"	0	0"
23.5-25-20PR (L2)	-310	-683	-240	-529	-210	-463	2920	9'7"	460	1'6"	0	0"
26.5-25-16PR (L3)	+305	+672	+240	+529	+210	+463	3010	9'11"	525	1'9"	+65	3"
26.5-25-20PR (L4)	+730	+1,609	+570	+1,257	+500	-1,102	3010	9'11"	525	1'9"	+65	3"
Remove ROPS cab	-660	-1,455	-610	-1,345	-590	-1,300						
Install front/rear compartment	+120	+265	+110	+243	+105	+230						
Install additional counterweight	+400	+880	+1030	+2,270	+860	+1,895						

Performance Data Dimensions

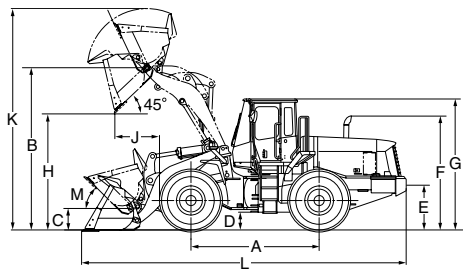
WHEEL LOADERS

WA470-5 (with high lift boom)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Hi-lift bucket with bolt-on cutting edges	3.8 (5.0)	3.2 (4.2)	3170 (10'5")	2150 (4,740)	20070 (44,250)
II Hi-lift bucket with teeth	3.6 (4.7)	3.1 (4.1)	3190 (10'6")	2070 (4,564)	21750 (47,950)

Tires/Buckets	Operating weight		Static tipping load kg(lb)			
	kg(lb)		Straight		40° full turn	
	I	II	I	II	I	II
23.5-25-20PR (L-2)	23155 (51,050)	23070 (50,861)	14110 (31,107)	14215 (31,339)	12275 (27,062)	12365 (27,260)
23.5-25-20PR (L-3)	23465 (51,732)	23380 (51,544)	14300 (31,526)	14405 (31,758)	12440 (27,426)	12530 (26,724)
26.5-25-16PR (L-3)	23770 (52,404)	23685 (52,217)	14485 (31,934)	14590 (32,166)	12605 (27,789)	12695 (27,988)
26.5-25-20PR (L-4)	24195 (53,341)	24110 (53,154)	14745 (32,507)	14850 (32,739)	12830 (28,285)	12920 (28,484)

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS cab and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.



	23.5-25 tires	26.5-25 tires
Tread	2300 (7'7")	2300 (7'7")
Width over tires	2920 (9'7")	3010 (9'11")
A Wheelbase	3450 (11'4")	3450 (11'4")
B Hinge pin height, max. height	4805 (15'10")	4870 (16')
C Hinge pin height, carry position	730 (2'5")	730 (2'5")
D Ground clearance	460 (1'6")	525 (1'9")
E Hitch height	1175 (3'10")	1240 (4'1")
F Overall height, top of the stack	3015 (9'11")	3080 (10'2")
G Overall height, ROPS cab	3395 (11'2")	3460 (11'5")
M Tilt back angle		50°

Measured with 23.5-25 tires

	Buckets	
	I	II
H. Dumping clearance, max. height and 45° dump angle*	3685 (12'1")	3560 (11'9")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle	2480 (8'2")	2530 (8'4")
J. Reach at max. height and 45° dump angle*	1290 (4'3")	1390 (4'7")
Reach with arm horizontal and bucket level	3245 (10'8")	3400 (11'2")
K. Operating height (fully raised)	6355 (20'11")	6355 (20'11")
L. Overall length	9545 (31'5")	9695 (31'11")
Turning radius (bucket at carry, outside corner of bucket)	7230 (23'9")	7290 (23'11")
Digging depth	0°	300 (1'0")
	10°	550 (1'10")

* At the end of teeth or B.O.C.

Measured with 26.5-25 tires

	Buckets	
	I	II
H. Dumping clearance, max. height and 45° dump angle*	3750 (12'4")	3625 (11'11")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle	2410 (7'11")	2465 (8'1")
J. Reach at max. height and 45° dump angle*	1355 (4'5")	1455 (4'9")
Reach with arm horizontal and bucket level	3180 (10'6")	3335 (10'11")
K. Operating height (fully raised)	6420 (21'1")	6420 (21'1")
L. Overall length	9500 (31'3")	9560 (31'5")
Loader clearance circle (bucket at carry, outside corner of bucket)	14460 (47'7")	14580 (47'11")
Digging depth	0°	235 (9.3")
	10°	485 (1'7")

* At the end of teeth or B.O.C.

**Performance Data
Dimensions**

WHEEL LOADERS

WA470-3

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I General-purpose bucket with bolt-on cutting edges; (Loading and excavating of soil, sand and variety of other commonly handled materials.)	4.2 (5.5)	3.6 (4.7)	3170 (10'5")	2090 (4,610)	19600 (43,200)
II General-purpose bucket with teeth	3.9 (5.1)	3.4 (4.45)	3190 (10'6")	2015 (4,440)	21100 (46,500)
III Excavating bucket with bolt-on cutting edges	3.8 (5.0)	3.3 (4.3)	3170 (10'5")	2200 (4,850)	20700 (45,600)
IV Excavating bucket with teeth (Loading and excavating of crushed rock and blasted rock.)	3.6 (4.7)	3.1 (4.05)	3190 (10'6")	2130 (4,700)	22400 (49,400)
V Light material bucket with bolt-on cutting edges; (A Lighter-weight, large-capacity bucket.)	5.2 (6.8)	4.5 (5.9)	3170 (10'5")	2330 (5,140)	16800 (37,000)
VI Rock bucket with teeth ; (Spade nose). (Loading and excavating of blasted rock)	3.5 (4.6)	3.0 (3.9)	3170 (10'5")	2120 (4,670)	18600 (41,000)

Tires/Buckets	Operating weight kg(lb)			
	I	II	III	IV
23.5-25-20PR (L-2)	21610 (47,650)	21535 (47,485)	21700 (47,850)	21630 (47,695)
23.5-25-20PR (L-3)	21920 (48,335)	21845 (48,170)	22010 (48,535)	21940 (48,380)
26.5-25-16PR (L-3)	22225 (49,005)	22150 (48,845)	22315 (49,205)	22245 (49,050)
26.5-25-20PR (L-4)	22650 (49,945)	22575 (49,780)	22740 (50,145)	22670 (49,990)
26.5-25-20PR (L-5)	23050 (50,815)	22975 (50,650)	23140 (51,015)	23070 (50,860)

Tires/Buckets	Static tipping load kg(lb)											
	Straight				35° turn				40° full turn			
	I	II	III	IV	I	II	III	IV	I	II	III	IV
23.5-25-20PR (L-2)	16365 (36,090)	16440 (36,250)	16080 (35,455)	16150 (35,610)	14695 (32,405)	14765 (32,555)	14440 (31,840)	14500 (31,980)	14205 (31,325)	14270 (31,465)	13960 (30,775)	14020 (30,910)
23.5-25-20PR (L-3)	16600 (36,765)	16675 (36,765)	16310 (35,965)	16380 (36,120)	14905 (33,015)	14970 (33,015)	14650 (32,300)	14710 (32,435)	14400 (31,750)	14470 (31,910)	14160 (31,220)	14220 (31,350)
26.5-25-16PR (L-3)	16830 (37,275)	16905 (37,275)	16540 (36,470)	16610 (36,620)	15115 (33,470)	15180 (33,470)	14850 (32,750)	14915 (32,885)	14610 (32,215)	14670 (32,355)	14355 (31,655)	14415 (31,785)
26.5-25-20PR (L-4)	17150 (37,980)	17225 (37,980)	16855 (37,170)	16925 (37,320)	15400 (34,105)	15470 (34,105)	15135 (33,380)	15200 (33,515)	14890 (32,830)	14950 (32,965)	14630 (32,260)	14690 (32,395)
26.5-25-20PR (L-5)	17480 (38,535)	17555 (38,700)	17190 (37,900)	17260 (38,050)	15695 (34,600)	15760 (34,745)	15440 (34,040)	15500 (34,170)	15180 (33,465)	15250 (33,620)	14940 (32,935)	15000 (33,070)

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS cab and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.

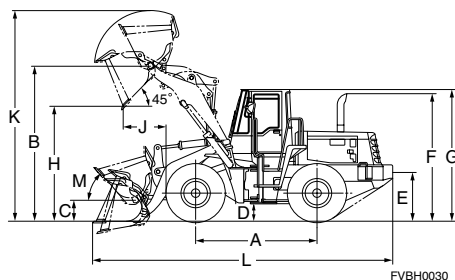
Weight Changes

	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS cab	-670 (-1,475)	-600 (-1,325)	-580 (-1,280)
Install additional counterweight	+400 (+885)	+1010 (+2,220)	+845 (+1,865)

Performance Data Dimensions

WHEEL LOADERS

WA470-3



FVBH0030

	23.5-25 tires	26.5-25 tires
Tread	2300 (7'7")	2300 (7'7")
Width over tires	2920 (9'7")	3010 (9'10")
A Wheelbase	3400 (11'2")	3400 (11'2")
B Hinge pin height, max. height	4295 (14'1")	4230 (14'4")
C Hinge pin height, carry position	590 (1'11")	570 (1'10")
D Ground clearance	460 (1'6")	525 (1'9")
E Hitch height	1175 (3'10")	1240 (4'1")
F Overall height, top of the stack	3385 (11'1")	3450 (11'4")
G Overall height, ROPS cab	3395 (11'2")	3460 (11'4")
M Tilt back angle	48°	

Measured with 23.5-25 tires

	Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle**		3120 (10'3")	2995 (9'10")	3170 (10'5")	3045 (10')
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		1885 (6'2")	1920 (6'4")	1860 (6'1")	1900 (6'3")
J. Reach at max. height and 45° dump angle**		1255 (4'1")	1355 (4'5")	1205 (3'11")	1305 (4'3")
Reach with arm horizontal and bucket level		2770 (9'1")	2930 (9'7")	2700 (8'10")	2860 (9'5")
K. Operating height (fully raised)		5895 (19'4")	5895 (19'4")	5850 (19'2")	5850 (19'2")
L. Overall length		8690 (28'6")	8845 (29')	8620 (28'3")	8775 (28'9")
Turning radius*		6890 (22'7")	6960 (22'10")	6870 (22'7")	6920 (22'8")
Digging depth	0°	145 (5.7")	165 (6.5")	145 (5.7")	165 (6.5")
	10°	380 (1'3")	420 (1'5")	365 (1'2")	410 (1'4")

Measured with 26.5-25 tires

	Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle*		3185 (10'5")	3060 (10')	3235 (10'7")	3110 (10'2")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		1850 (6'1")	1885 (6'2")	1825 (6')	1865 (6'1")
J. Reach at max. height and 45° dump angle*		1195 (3'11")	1295 (4'3")	1145 (3'9")	1245 (4'1")
Reach with arm horizontal and bucket level		2705 (8'11")	2860 (9'5")	2635 (8'8")	2790 (9'2")
K. Operating height (fully raised)		5960 (19'7")	5960 (19'7")	5915 (19'5")	5915 (19'5")
L. Overall length		8640 (28'4")	8795 (28'10")	8570 (28'1")	8725 (28'8")
Turning radius*		6870 (22'6")	6940 (22'9")	6850 (22'6")	6900 (22'8")
Digging depth	0°	80 (3.1")	100 (3.9")	80 (3.1")	100 (3.9")
	10°	315 (1')	355 (1'2")	300 (1')	345 (1'2")

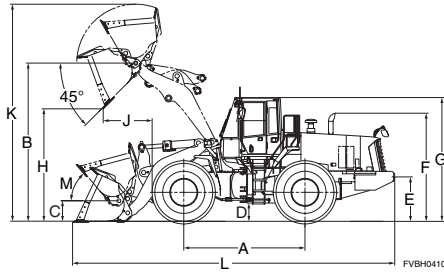
* Bucket at carry, outside corner of bucket.

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA480-6



	Unit: mm (ft.in)
Tread	2300 (7'7")
Width over tires	3010 (9'11")
A Wheelbase	3450 (11'4")
B Hinge pin height, max. height	4505 (14'9")
C Hinge pin height, carry position	585 (1'11")
D Ground clearance	525 (1'9")
E Hitch height	1240 (4'1")
F Overall height, top of the stack	3080 (10'1")
G Overall height, ROPS cab	3500 (11'6")
M Tilt back angle	52°

Measured with 26.5-25-20PR (L3) tires

Bucket Type			General Purpose Buckets					Loose Material Bucket	Light Material Bucket
			Stockpile		Excavating				
			Bolt-on Cutting Edges	Teeth	Bolt-on Cutting Edges	Teeth and Segments	Teeth		
Bucket capacity	Heaped	m ³ (yd ³)	4.6 (6.0)	4.3 (5.6)	4.1 (5.4)	4.1 (5.4)	3.8 (5.0)	4.9 (6.4)	6.1 (8.0)
	Struck	m ³ (yd ³)	4.0 (5.2)	3.8 (5.0)	3.5 (4.6)	3.5 (4.6)	3.2 (4.2)	4.2 (5.5)	5.2 (6.8)
Bucket width		mm (ft.in)	3170 (10'5")	3190 (10'6")	3170 (10'5")	3190 (10'6")	3190 (10'6")	3170 (10'5")	3170 (10'5")
Bucket weight		kg (lb)	2260 (4,982)	2165 (4,773)	2220 (4,894)	2255 (4,971)	2125 (4,685)	2340 (5,159)	2410 (5,313)
Static tipping load	Straight	kg (lb)	20030 (44,160)	20110 (44,330)	20060 (44,220)	20030 (44,160)	20145 (44,410)	19960 (44,000)	19900 (43,870)
	Full turn (40°)	kg (lb)	17125 (37,750)	17205 (37,930)	17160 (37,830)	17130 (37,760)	17240 (38,010)	17055 (37,600)	16995 (37,470)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3205 (10'6")	3080 (10'1")	3320 (10'11")	3195 (10'6")	3195 (10'6")	3150 (10'4")	3080 (10'1")
Reach at 2130 mm (7") clearance and 45° dump angle		mm (ft.in)	2135 (7'0")	2180 (7'2")	2060 (6'9")	2110 (6'11")	2110 (6'11")	2165 (7'1")	2205 (7'3")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1410 (4'8")	1510 (5'0")	1295 (4'3")	1395 (4'7")	1395 (4'7")	1465 (4'10")	1535 (5'0")
Reach with arm horizontal and bucket level		mm (ft.in)	3020 (9'11")	3175 (10'5")	2855 (9'4")	3010 (9'11")	3010 (9'11")	3100 (10'2")	3195 (10'6")
Operating height (fully raised)		mm (ft.in)	6175 (20'3")	6175 (20'3")	6025 (19'9")	6025 (19'9")	6025 (19'9")	6175 (20'3")	6450 (21'2")
Overall length		mm (ft.in)	9170 (30'1")	9325 (30'7")	9005 (29'7")	9160 (30'1")	9160 (30'1")	9250 (30'4")	9345 (30'8")
Turning radius*		mm (ft.in)	7700 (25'3")	7750 (25'5")	7655 (25'1")	7710 (25'4")	7710 (25'4")	7720 (25'4")	7745 (25'5")
Digging depth	0°	mm (ft.in)	90 (3.5")	110 (4.3")	90 (3.5")	110 (4.3")	110 (4.3")	90 (3.5")	90 (3.5")
	10°	mm (ft.in)	355 (1'2")	400 (1'4")	335 (1'1")	380 (1'3")	380 (1'3")	375 (1'3")	385 (1'3")
Breakout force		kN kgf (lb)	212 21600 (47,660)	226 23100 (50,810)	231 23600 (51,930)	237 24200 (53,280)	249 25400 (55,980)	196 20000 (44,060)	189 19300 (42,490)
Operating weight		kg (lb)	25005 (55,130)	24910 (54,920)	24965 (55,040)	25000 (55,110)	24870 (54,830)	25085 (55,300)	25155 (55,460)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments. Apply the following weight changes to operating weight and static tipping load.

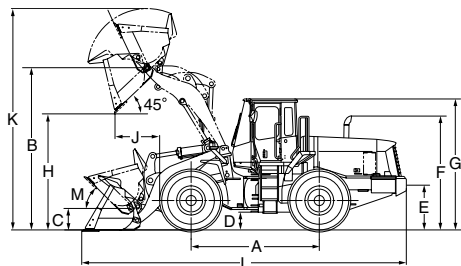
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
26.5-25-20PR (L3)	0	0	0	0	0	0	3010	9'11"	525	1'9"	0	0"
26.5-25-20PR (L4)	+360	+794	+250	+551	+220	+485	3010	9'11"	525	1'9"	0	0"
Install additional counterweight	+400	+880	+980	+2,160	+850	+1,873						

Performance Data Dimensions

WHEEL LOADERS

WA480-5



	Unit: mm (ft.in)
Tread	2300 (7'7")
Width over tires	3010 (9'11")
A Wheelbase	3450 (11'4")
B Hinge pin height, max. height	4505 (14'9")
C Hinge pin height, carry position	585 (1'11")
D Ground clearance	525 (1'9")
E Hitch height	1240 (4'1")
F Overall height, top of the stack	3080 (10'1")
G Overall height, ROPS cab	3500 (11'6")
M Tilt back angle	52°

Measured with 20.5-25-16PR (L3) tires

Bucket Type			General Purpose Buckets					Loose Material Bucket	Light Material Bucket
			Stockpile		Excavating				
			Bolt-on Cutting Edges	Teeth	Bolt-on Cutting Edges	Teeth and Segments	Teeth		
Bucket capacity	Heaped	m ³ (yd ³)	4.6 (6.0)	4.3 (5.6)	4.1 (5.4)	4.1 (5.4)	3.8 (5.0)	4.9 (6.4)	6.1 (8.0)
	Struck	m ³ (yd ³)	4.0 (5.2)	3.8 (5.0)	3.5 (4.6)	3.5 (4.6)	3.2 (4.2)	4.2 (5.5)	5.2 (6.8)
Bucket width		mm (ft.in)	3170 (10'5")	3190 (10'6")	3170 (10'5")	3190 (10'6")	3190 (10'6")	3170 (10'5")	3170 (10'5")
Bucket weight		kg (lb)	2260 (4,982)	2165 (4,773)	2220 (4,894)	2255 (4,971)	2125 (4,685)	2340 (5,159)	2410 (5,313)
Static tipping load	Straight	kg (lb)	19300 (42,549)	19395 (42,758)	19340 (42,637)	19305 (42,560)	19435 (42,846)	19220 (42,372)	19150 (42,218)
	Full turn (40°)	kg (lb)	16800 (37,037)	16890 (37,236)	16840 (37,125)	16805 (37,048)	16935 (37,335)	16720 (36,861)	16650 (36,707)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3205 (10'6")	3080 (10'1")	3295 (10'10")	3170 (10'5")	3170 (10'5")	3125 (10'3")	3080 (10'1")
Reach at 2130 mm (7") clearance and 45° dump angle		mm (ft.in)	2135 (7'0")	2180 (7'2")	2080 (6'10")	2130 (7'0")	2130 (7'0")	2180 (7'2")	2205 (7'3")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1410 (4'8")	1510 (5'0")	1320 (4'4")	1420 (4'8")	1420 (4'8")	1490 (4'11")	1535 (5'0")
Reach with arm horizontal and bucket level		mm (ft.in)	3020 (9'11")	3175 (10'5")	2895 (9'6")	3050 (10'0")	3050 (10'0")	3135 (10'3")	3195 (10'6")
Operating height (fully raised)		mm (ft.in)	6175 (20'3")	6175 (20'3")	6025 (19'9")	6025 (19'9")	6025 (19'9")	6175 (20'3")	6450 (21'2")
Overall length		mm (ft.in)	9155 (30'0")	9310 (30'7")	9030 (29'8")	9185 (30'2")	9185 (30'2")	9270 (30'5")	9330 (30'7")
Turning radius*		mm (ft.in)	7030 (23'1")	7095 (23'3")	7005 (23'0")	7060 (23'2")	7060 (23'2")	7070 (23'2")	7085 (23'3")
Digging depth	0°	mm (ft.in)	90 (3.5")	110 (4.3")	90 (3.5")	110 (4.3")	110 (4.3")	90 (3.5")	90 (3.5")
	10°	mm (ft.in)	355 (1'2")	400 (1'4")	335 (1'1")	380 (1'3")	380 (1'3")	375 (1'3")	385 (1'3")
Breakout force		kN kgf (lb)	212 21600 (47,658)	226 23100 (50,805)	231 23600 (51,929)	237 24200 (53,278)	249 25400 (55,975)	196 20000 (44,061)	189 19300 (42,487)
Operating weight		kg (lb)	24145 (53,230)	24050 (53,021)	24145 (53,230)	24140 (53,219)	24010 (52,932)	24225 (53,406)	24295 (53,561)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
 - Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
 - Machine stability and operating weight affected by counterweight, tire size, and other attachments.
- Apply the following weight changes to operating weight and static tipping load.

Weight Changes

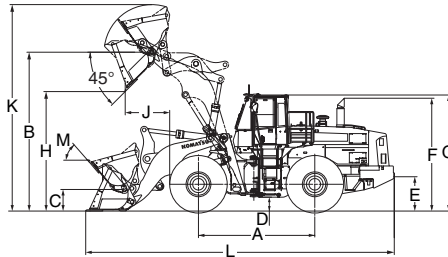
	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
23.5-25-20PR (L3)	0	0	0	0	0	0	2920	9'7"	460	1'6"	0	0"
26.5-25-20PR (L2)	-310	-683	-240	-529	-210	-463	2920	9'7"	460	1'6"	0	0"
26.5-25-16PR (L3)	+305	+672	+240	+529	+210	+463	3010	9'11"	525	1'9"	+65	+2.6"
26.5-25-20PR (L4)	+730	+1,609	+570	+1,257	+500	+1,102	3010	9'11"	525	1'9"	+65	+2.6"
Remove ROPS cab	-660	-1,455	-610	-1,345	-590	-1,300						
Install additional counterweight	+400	+880	+1030	+2,270	+860	+1,895						

Performance Data Dimensions

WHEEL LOADERS

WA500-6

Unit: mm (ft.in)



Tread	2400 (7'10")
Width over tires	3190 (10'6")
A Wheelbase	3780 (12'5")
B Hinge pin height, max. height	4755 (15'7")
C Hinge pin height, carry position	575 (1'11")
D Ground clearance	450 (1'6")
E Hitch height	1115 (3'8")
F Overall height, top of the stack	3665 (12'0")
G Overall height, ROPS cab	3785 (12'5")
M Tilt back angle	50°

Measured with 29.5-25-22PR (L3) tires

Bucket Type			Standard boom				
			General Purpose Buckets		Excavating Buckets		
			Straight edge Bolt-on Cutting Edges	Straight edge Teeth	Straight edge Bolt-on Cutting Edges	Straight edge Teeth and Segments	Straight edge Teeth
Bucket capacity	Heaped	m ³ (yd ³)	5.6 (7.3)	5.3 (6.9)	5.2 (6.8)	5.2 (6.8)	5.0 (6.5)
	Struck	m ³ (yd ³)	4.8 (6.3)	4.5 (5.9)	4.2 (5.5)	4.2 (5.5)	4.0 (5.2)
Bucket width		mm (ft.in)	3400 (11'2")	3460 (11'4")	3400 (11'2")	3460 (11'4")	3460 (11'4")
Bucket weight		kg (lb)	3110 (6,855)	2955 (6,515)	3055 (6,735)	3145 (6,935)	2900 (6,395)
Static tipping load	Straight	kg (lb)	23450 (51,700)	23650 (52,140)	23600 (52,030)	23490 (51,785)	22850 (50,375)
	Full turn (40°)	kg (lb)	20400 (44,975)	20575 (45,360)	20500 (45,195)	20405 (44,985)	19870 (43,805)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3295 (10'10")	3165 (10'5")	3395 (11'2")	3265 (10'9")	3265 (10'9")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	2300 (7'7")	2340 (7'8")	2215 (7'3")	2285 (7'6")	2285 (7'6")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1500 (4'11")	1600 (5'3")	1400 (4'7")	1495 (4'11")	1495 (4'11")
Reach with arm horizontal and bucket level		mm (ft.in)	3265 (10'9")	3425 (11'3")	3120 (10'3")	3280 (10'9")	3280 (10'9")
Operating height (fully raised)		mm (ft.in)	6430 (21'1")	6430 (21'1")	6415 (21'1")	6415 (21'1")	6415 (21'1")
Overall length		mm (ft.in)	9815 (32'2")	9975 (32'9")	9670 (31'9")	9790 (32'1")	9790 (32'1")
Turning radius*		mm (ft.in)	7650 (25'1")	7730 (25'3")	7610 (25'0")	7690 (25'3")	7690 (25'3")
Digging depth	0°	mm (ft.in)	135 (5")	155 (6")	135 (5")	155 (6")	155 (6")
	10°	mm (ft.in)	435 (1'5")	485 (1'7")	410 (1'4")	460 (1'6")	460 (1'6")
Breakout force		kN	245	262	268	274	288
		kgf (lb)	25000 (55,115)	26750 (58,975)	27300 (60,185)	27950 (61,620)	29400 (64,815)
Operating weight		kg (lb)	32220 (71,030)	32065 (70,690)	32165 (70,910)	32255 (71,110)	32010 (70,570)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C

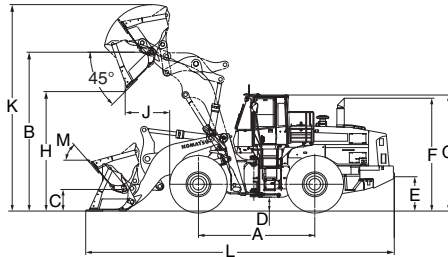
- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments. Apply the following weight changes to operating weight and static tipping load.

Performance Data Dimensions

WHEEL LOADERS

WA500-6

Unit: mm (ft.in)



Tread	2400 (7'10")
Width over tires	3190 (10'6")
A Wheelbase	3780 (12'5")
B Hinge pin height, max. height	4755 (15'7")
C Hinge pin height, carry position	575 (1'11")
D Ground clearance	450 (1'6")
E Hitch height	1115 (3'8")
F Overall height, top of the stack	3665 (12'0")
G Overall height, ROPS cab	3785 (12'5")
M Tilt back angle	50°

Measured with 29.5-25-22PR (L3) tires

Bucket Type			Standard boom		High lift boom		
			Rock Buckets		Excavating Buckets		
			Spade nose Teeth and Segments	Spade nose Teeth	Straight edge Bolt-on Cutting Edges	Straight edge Teeth and Segments	Straight edge Teeth
Bucket capacity	Heaped	m ³ (yd ³)	5.0 (6.5)	4.7 (6.1)	4.5 (5.9)	4.5 (5.9)	4.3 (5.6)
	Struck	m ³ (yd ³)	4.2 (5.5)	4.0 (5.2)	3.7 (4.8)	3.7 (4.8)	3.5 (4.6)
Bucket width		mm (ft.in)	3460 (11'4")	3460 (11'4")	3400 (11'2")	3460 (11'4")	3460 (11'4")
Bucket weight		kg (lb)	3745 (8,255)	3490 (7,695)	2885(6,360)	2975(6,560)	2730(6,020)
Static tipping load	Straight	kg (lb)	22850 (50,375)	23170 (51,080)	21555 (47,520)	21440 (47,265)	21745 (47,940)
	Full turn (40°)	kg (lb)	19870 (43,805)	20150 (44,425)	18750 (41,335)	18650 (41,115)	18915 (41,700)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3030 (9'11")	3030 (9'11")	3890 (12'9")	3920 (12'10")	3920 (12'10")
Reach at 2130 mm (7") clearance and 45° dump angle		mm (ft.in)	2400 (7'10")	2400 (7'10")	2585 (8'6")	2645 (8'8")	2645 (8'8")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1725 (5'8")	1725 (5'8")	1435 (4'8")	1405 (4'7")	1405 (4'7")
Reach with arm horizontal and bucket level		mm (ft.in)	3610 (11'10")	3610 (11'10")	3385 (11'1")	3545 (11'8")	3545 (11'8")
Operating height (fully raised)		mm (ft.in)	6630 (21'9")	6630 (21'9")	6715 (22'0")	6715 (22'0")	6715 (22'0")
Overall length		mm (ft.in)	10155 (33'4")	10155 (33'4")	10030 (32'11")	10190 (33'5")	10190 (33'5")
Turning radius*		mm (ft.in)	7645 (25'1")	7645 (25'1")	7805 (25'7")	7890 (25'11")	7890 (25'11")
Digging depth	0°	mm (ft.in)	165 (6")	165 (6")	210 (8")	235 (9")	235 (9")
	10°	mm (ft.in)	525 (1'9")	525 (1'9")	470(1'7")	520(1'8")	520(1'8")
Breakout force		kN	233	243	286	294	310
		kgf (lb)	23800 (52,470)	24750 (54,565)	29,140 (64,245)	30000 (66,140)	31620 (69,710)
Operating weight		kg (lb)	32855 (72,435)	32600 (71,870)	33240 (73,280)	33330 (73,480)	33085 (72,940)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
 - Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
 - Machine stability and operating weight affected by counterweight, tire size, and other attachments.
- Apply the following weight changes to operating weight and static tipping load.

Weight Changes

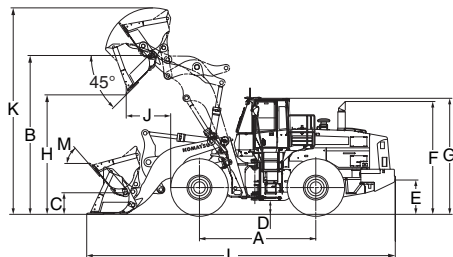
	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
29.5-25-22PR (L3)	0	0	0	0	0	0	3190	10'6"	450	1'6"	0	0"
Install additional counterweight	+900	+1,985	+1,865	+4,110	+1,645	+3,625						
Air conditioner	+65	+145	+33	+75	+30	+65						
Emergency steering	+70	+155	+65	+145	+55	+120						
Lock-up clutch torque converter	+45	+100	+60	+130	+50	+110						
ECCS (Electronically Controlled Suspension System)	+120	+265	+13	+30	+11	+24						

Performance Data Dimensions

WHEEL LOADERS

WA500-6R

Unit: mm (ft.in)



Tread	2400 (7'10")
Width over tires	3190 (10'6")
A Wheelbase	3780 (12'5")
B Hinge pin height, max. height	4755 (15'7")
C Hinge pin height, carry position	575 (1'11")
D Ground clearance	450 (1'6")
E Hitch height	1115 (3'8")
F Overall height, top of the stack	3665 (12'0")
G Overall height, ROPS cab	3785 (12'5")
M Tilt back angle	50°

Measured with 29.5-25-22PR (L3) tires

Bucket Type			Standard boom				
			General Purpose Buckets		Excavating Buckets		
			Straight edge Bolt-on Cutting Edges	Straight edge Teeth	Straight edge Bolt-on Cutting Edges	Straight edge Teeth and Segments	Straight edge Teeth
Bucket capacity	Heaped	m ³ (yd ³)	5.6 (7.3)	5.3 (6.9)	5.2 (6.8)	5.2 (6.8)	5.0 (6.5)
	Struck	m ³ (yd ³)	4.8 (6.3)	4.5 (5.9)	4.2 (5.5)	4.2 (5.5)	4.0 (5.2)
Bucket width		mm (ft.in)	3400 (11'2")	3460 (11'4")	3400 (11'2")	3460 (11'4")	3460 (11'4")
Bucket weight		kg (lb)	3110 (6,855)	2955 (6,515)	3055 (6,735)	3145 (6,935)	2900 (6,395)
Static tipping load	Straight	kg (lb)	24300 (53,570)	24500 (54,010)	24450 (53,900)	24340 (53,660)	24655 (54,355)
	Full turn (40°)	kg (lb)	21000 (46,295)	21170 (46,670)	21130 (46,580)	21035 (46,370)	21305 (46,965)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3295 (10'10")	3165 (10'5")	3395 (11'2")	3265 (10'9")	3265 (10'9")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	2300 (7'7")	2340 (7'8")	2215 (7'3")	2285 (7'6")	2285 (7'6")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1500 (4'11")	1600 (5'3")	1400 (4'7")	1495 (4'11")	1495 (4'11")
Reach with arm horizontal and bucket level		mm (ft.in)	3265 (10'9")	3425 (11'3")	3120 (10'3")	3280 (10'9")	3280 (10'9")
Operating height (fully raised)		mm (ft.in)	6430 (21'1")	6430 (21'1")	6415 (21'1")	6415 (21'1")	6415 (21'1")
Overall length		mm (ft.in)	9815 (32'2")	9975 (32'9")	9670 (31'9")	9790 (32'1")	9790 (32'1")
Turning radius*		mm (ft.in)	7650 (25'1")	7730 (25'3")	7610 (25'0")	7690 (25'3")	7690 (25'3")
Digging depth	0°	mm (ft.in)	135 (5")	155 (6")	135 (5")	155 (6")	155 (6")
	10°	mm (ft.in)	435 (1'5")	485 (1'7")	410 (1'4")	460 (1'6")	460 (1'6")
Breakout force		kN	245	262	268	274	288
		kgf (lb)	25000 (55,115)	26750 (58,975)	27300 (60,185)	27950 (61,620)	29400 (64,815)
Operating weight		kg (lb)	33360 (73,545)	33205 (73,200)	33305 (73,425)	33395 (73,620)	33150 (73,080)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C

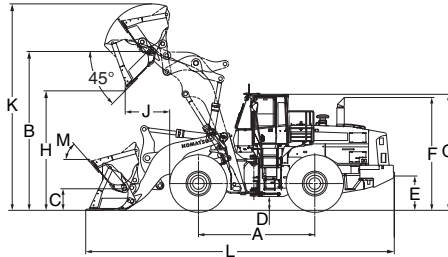
- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments. Apply the following weight changes to operating weight and static tipping load.

Performance Data Dimensions

WHEEL LOADERS

WA500-6R

Unit: mm (ft.in)



Tread	2400 (7'10")
Width over tires	3190 (10'6")
A Wheelbase	3780 (12'5")
B Hinge pin height, max. height	4755 (15'7")
C Hinge pin height, carry position	575 (1'11")
D Ground clearance	450 (1'6")
E Hitch height	1115 (3'8")
F Overall height, top of the stack	3665 (12'0")
G Overall height, ROPS cab	3785 (12'5")
M Tilt back angle	50°

Measured with 29.5-25-22PR (L3) tires

Bucket Type			Standard boom		High lift boom		
			Rock Buckets		Excavating Buckets		
			Spade nose Teeth and Segments	Spade nose Teeth	Straight edge Bolt-on Cutting Edges	Straight edge Teeth and Segments	Straight edge Teeth
Bucket capacity	Heaped	m ³ (yd ³)	5.0 (6.5)	4.7 (6.1)	4.5 (5.9)	4.5 (5.9)	4.3 (5.6)
	Struck	m ³ (yd ³)	4.2 (5.5)	4.0 (5.2)	3.7 (4.8)	3.7 (4.8)	3.5 (4.6)
Bucket width		mm (ft.in)	3460 (11'4")	3460 (11'4")	3400 (11'2")	3460 (11'4")	3460 (11'4")
Bucket weight		kg (lb)	3745 (8,255)	3490 (7,695)	2885 (6,360)	2975 (6,560)	2730 (6,020)
Static tipping load	Straight	kg (lb)	23700 (52,245)	24020 (52,955)	22405 (49,395)	22290 (49,140)	22595 (49,810)
	Full turn (40°)	kg (lb)	20480 (45,150)	20755 (45,755)	19360 (42,680)	19260 (42,460)	19525 (43,045)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3030 (9'11")	3030 (9'11")	3890 (12'9")	3760 (12'4")	3760 (12'4")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	2400 (7'10")	2400 (7'10")	2585 (8'6")	2645 (8'8")	2645 (8'8")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1725 (5'8")	1725 (5'8")	1435 (4'8")	1530 (5'0")	1530 (5'0")
Reach with arm horizontal and bucket level		mm (ft.in)	3610 (11'10")	3610 (11'10")	3385 (11'1")	3545 (11'8")	3545 (11'8")
Operating height (fully raised)		mm (ft.in)	6630 (21'9")	6630 (21'9")	6715 (22'0")	6715 (22'0")	6715 (22'0")
Overall length		mm (ft.in)	10155 (33'4")	10155 (33'4")	10030 (32'11")	10190 (33'5")	10190 (33'5")
Turning radius*		mm (ft.in)	7645 (25'1")	7645 (25'1")	7805 (25'7")	7890 (25'11")	7890 (25'11")
Digging depth	0°	mm (ft.in)	165 (6")	165 (6")	210 (8")	235 (9")	235 (9")
	10°	mm (ft.in)	525 (1'9")	525 (1'9")	470 (1'7")	520 (1'8")	520 (1'8")
Breakout force		kN kgf (lb)	233 23800 (52,470)	243 24750 (54,565)	286 29,140 (64,245)	294 30000 (66,140)	310 31620 (69,710)
Operating weight		kg (lb)	33995 (75,945)	33740 (74,380)	34380 (75,795)	34470 (75,990)	34225 (75,450)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
 - Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
 - Machine stability and operating weight affected by counterweight, tire size, and other attachments.
- Apply the following weight changes to operating weight and static tipping load.

Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
29.5-25-22PR (L3)	0	0	0	0	0	0	3190	10'6"	450	1'6"	0	0"
Install additional counterweight	+900	+1,985	+1,865	+4,110	+1,645	+3,625						
Air conditioner	+65	+145	+33	+75	+30	+65						
Emergency steering	+70	+155	+65	+145	+55	+120						
Lock-up clutch torque converter	+45	+100	+60	+130	+50	+110						
ECCS (Electronically Controlled Suspension System)	+120	+265	+13	+30	+11	+24						

**Performance Data
Dimensions**

WHEEL LOADERS

WA500-3

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (straight edge) with teeth	4.3 (5.6)	3.7 (4.8)	3460 (11'4")	2570 (5,670)	27000 (59,520)
II Excavating bucket (spade nose) with tip teeth	4.3 (5.6)	3.7 (4.8)	3400 (11'2")	2960 (6,530)	21780 (48,020)
III General-purpose bucket with bolt on cutting edge without teeth ; Loading stockpile products	5.0 (6.5)	4.3 (5.6)	3400 (11'2")	2760 (6,080)	23700 (52,250)
IV Loose material bucket with bolt on cutting edge	5.5 (7.2)	4.7 (6.1)	3400 (11'2")	2880 (6,350)	21200 (46,740)

Tires/Buckets	Operating weight kg(lb)							
	I	II	III	IV				
26.5-25-20PR (L3)	28220 (62,210)	28610 (63,070)	28410 (62,630)	27910 (61,530)				
29.5-25-22PR (L3)	28770 (63,430)	29160 (64,290)	28960 (63,850)	28460 (62,750)				
26.5-25-20PR (L4)	28620 (63,100)	29010 (63,960)	28810 (63,520)	28310 (62,420)				
26.5-25-20PR (L5)	28980 (63,890)	29370 (64,750)	29170 (64,310)	28670 (63,210)				
29.5-25-28PR (L4)	29310 (64,620)	29700 (65,480)	29500 (65,040)	29000 (63,940)				

Tires/Buckets	Static tipping load kg(lb)							
	Straight							
	I	II	III	IV				
26.5-25-20PR (L3)	21920 (48,330)	21440 (47,270)	21750 (47,950)	21610 (47,650)				
29.5-25-22PR (L3)	22330 (49,230)	21850 (48,170)	22160 (48,860)	22020 (48,550)				
26.5-25-20PR (L4)	22215 (48,980)	21735 (47,920)	22045 (48,600)	21905 (48,300)				
26.5-25-20PR (L5)	22485 (49,580)	22005 (48,520)	22315 (49,200)	22175 (48,900)				
29.5-25-28PR (L4)	22730 (50,120)	22250 (49,060)	22560 (49,740)	22420 (49,430)				

Tires/Buckets	Static tipping load kg(lb)							
	40° full turn							
	I	II	III	IV				
26.5-25-20PR (L3)	18980 (41,840)	18560 (40,920)	18830 (41,510)	18670 (41,160)				
29.5-25-22PR (L3)	19335 (42,630)	18915 (41,700)	19185 (42,300)	19025 (41,950)				
26.5-25-20PR (L4)	19235 (42,410)	18815 (41,480)	19085 (42,080)	18925 (41,730)				
26.5-25-20PR (L5)	19470 (42,930)	19050 (42,000)	19320 (42,600)	19160 (42,250)				
29.5-25-28PR (L4)	19680 (43,390)	19260 (42,470)	19530 (43,060)	19370 (42,710)				

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.

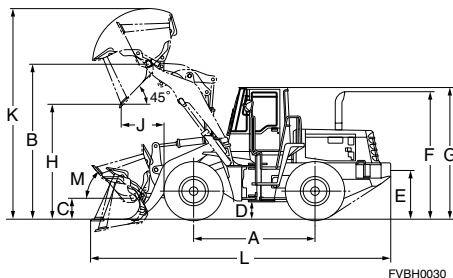
Weight Changes

Weight Changes	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS cab	-585 (-1,290)	-510 (-1,125)	-490 (-1,080)
Remove steel cab	-460 (-1,015)	-400 (-880)	-385 (-850)
Remove front half fender	-45 (-100)	-14 (-30)	-14 (-30)
Remove teeth	-315 (-690)	-415 (-910)	-415 (-915)
Install additional counterweight	+1000 (+2,205)	+2400 (+5,290)	+2000 (+4,410)

Performance Data Dimensions

WHEEL LOADERS

WA500-3



	26.5-25 tires	29.5-25 tires
Tread	2400 (7'10")	2400 (7'10")
Width over tires	3090 (10'2")	3190 (10'6")
A Wheelbase	3600 (11'10")	3600 (11'10")
B Hinge pin height, max. height	4455 (14'7")	4500 (14'9")
C Hinge pin height, carry position	520 (1'8")	565 (1'10")
D Ground clearance	405 (1'4")	450 (1'5")
E Hitch height	1195 (3'11")	1240 (4'1")
F Overall height, top of the stack	3660 (12')	3705 (12'2")
G Overall height, ROPS canopy	3815 (12'6")	3860 (12'8")
M Tilt back angle	48°	

Measured with 26.5-25 tires

	Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle**		3025 (9'11")	2770 (9'1")	3125 (10'3")	3015 (9'11")
Reach at 2130 mm (7") cut edge clearance and 45° dump angle		2030 (6'8")	2160 (7'1")	2060 (6'9")	2140 (7'0")
J. Reach at max. height and 45° dump angle**		1490 (4'11")	1740 (5'9")	1430 (4'8")	1540 (5'11")
Reach with arm horizontal and bucket level		2800 (9'2")	3130 (10'3")	2995 (9'10")	3150 (10'4")
K. Operating height (fully raised)		6070 (19'11")	6255 (20'6")	6130 (20'1")	6175 (20'3")
L. Overall length		9055 (29'9")	9395 (30'10")	9250 (30'4")	9405 (30'10")
Turning radius*		7390 (24'3")	7380 (24'3")	7320 (24'0")	7265 (23'10")
Digging depth	0°	180 (7.1")	185 (7.3")	150 (6")	155 (6")
	10°	470 (18.5")	535 (21.1")	420 (16.5")	445 (17.5")

Measured with 29.5-25 tires

	Buckets	I	II	III	IV
H. Dumping clearance, max. height and 45° dump angle*		3070 (10'1")	2815 (9'3")	3170 (10'5")	3060 (10'0")
Reach at 2130 mm (7") cut edge clearance and 45° dump angle		1995 (6'6")	2125 (7")	2025 (6'8")	2100 (6'11")
J. Reach at max. height and 45° dump angle*		1425 (4'8")	1675 (5'6")	1365 (4'6")	1480 (4'10")
Reach with arm horizontal and bucket level		2740 (9'0")	3070 (10'1")	2935 (9'8")	3090 (10'2")
K. Operating height (fully raised)		6115 (20'1")	6300 (20'8")	6175 (20'3")	6220 (20'5")
L. Overall length		9020 (29'7")	9360 (30'8")	9215 (30'3")	9370 (30'9")
Turning radius*		7390 (24'3")	7380 (24'3")	7320 (24'0")	7265 (23'10")
Digging depth	0°	135 (5.3")	140 (5.5")	110 (4.3")	110 (4.3")
	10°	425 (1'5")	490 (1'7")	375 (1'3")	400 (1'4")

* Bucket at carry, outside corner of bucket.

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

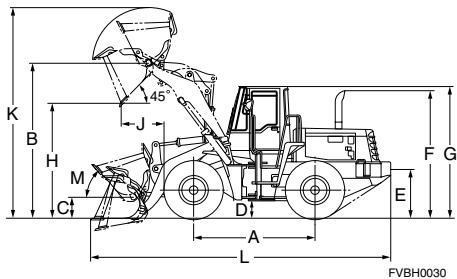
WA500-3 (with high lift boom)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (straight edge) with teeth	4.2 (5.6)	3.6 (4.8)	3460 (11'4")	2580 (5,690)	28450 (62,720)

* Excluding tire protectors

	Operating weight kg(lb)	Static tipping load kg(lb)	
		Straight	40° full turn
Tires/Buckets	I	I	I
29.5-25-22PR (L-3)	29740 (65,560)	21765 (47,980)	18800 (41,450)

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.



Tread	2400 (7'20")
Width over tires	3190 (10'6")
A Wheelbase	3600 (11'10")
B Hinge pin height, max. height	4905 (16'1")
C Hinge pin height, carry position	565 (1'10")
D Ground clearance	450 (1'5")
E Hitch height	1240 (4'1")
F Overall height, top of the stack	3635 (11'11")
G Overall height, ROPS canopy	3860 (12'8")
M Tilt back angle	48°

Unit: mm (ft.in)

Measured with 29.5-25 tires

Unit: mm (ft.in)

	Buckets	I
H. Dumping clearance, max. height and 45° dump angle**		3565 (11'8")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		
J. Reach at max. height and 45° dump angle**		1570 (5'2")
Reach with arm horizontal and bucket level		
K. Operating height (fully raised)		6520 (21'5")
L. Overall length		9910 (32'6")
Turning radius*		7585 (24'11")
Digging depth	0°	205 (8.1")
	10°	475 (1'7")

* Bucket at carry, outside corner of bucket.

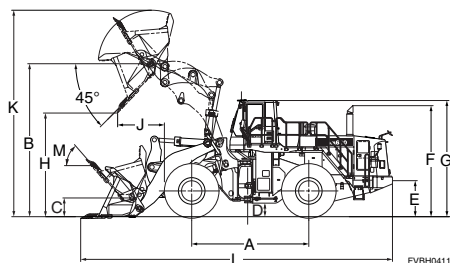
** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA600-6

Unit: mm (ft.in)



Tread	3990 mm 13'1"	3850 mm 12'8"
Width over tires	2650 (8'8")	
A Wheelbase	3540 (11'9")	
B Hinge pin height, max. height	5885 (19'3")	5665 (18'7")
C Hinge pin height, carry position	720 (2'4")	670 (2'3")
D Ground clearance	525 (1'9")	
E Hitch height	1385 (4'7")	
F Overall height, top of the stack	4270 (14'0")	
G Overall height, ROPS cab	4460 (14'8")	
M Tilt back angle	50°	

Measured with 35/65-33-36PR (L4) tires

Bucket Type			3990 mm 13'1" Boom			3850 mm 12'8" Boom	
			Excavating Buckets		Stockpile Bucket	Excavating Buckets	
			Spade nose Teeth and WSE***	Straight edge Teeth and BSE**4	Spade nose Teeth and WSE***	Spade nose Teeth and WSE***	Straight edge Teeth and BSE**4
Bucket capacity	Heaped	m ³ (yd ³)	6.4 (8.4)	6.5 (8.5)	7.0 (9.2)	7.0 (9.2)	7.0 (9.2)
	Struck	m ³ (yd ³)	5.3 (6.9)	5.4 (7.1)	5.8 (7.6)	5.8 (7.6)	5.8 (7.6)
Bucket width		mm (ft.in)	3685 (12'1")	3685 (12'1")	3685 (12'1")	3685 (12'1")	3685 (12'1")
Bucket weight		kg (lb)	5115 (11,280)	4735 (10,440)	5255 (11,590)	5245 (11,570)	4865 (10,730)
Static tipping load	Straight	kg (lb)	34200 (75,400)	34580 (76,240)	34060 (75,090)	35400 (78,040)	35780 (78,880)
	Full turn (43°)	kg (lb)	28500 (62,830)	28880 (63,670)	28360 (62,520)	29500 (65,040)	29880 (65,870)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3995 (13'1")	4180 (13'9")	3945 (12'11")	3730 (12'3")	3905 (12'10")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	3015 (9'11")	2875 (9'5")	3050 (10'0")	2900 (9'6")	2775 (9'1")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1800 (5'11")	1610 (5'3")	1850 (6'1")	1885 (6'2")	1690 (5'7")
Reach with arm horizontal and bucket level		mm (ft.in)	4135 (13'7")	3870 (12'8")	4205 (13'9")	4065 (13'4")	3800 (12'6")
K. Operating height (fully raised)		mm (ft.in)	7925 (20'6")	7925 (20'6")	7995 (26'3")	7775 (25'6")	7775 (25'6")
Overall length		mm (ft.in)	11985 (39'4")	11725 (38'6")	12055 (39'7")	11870 (38'11")	11610 (38'1")
Turning radius*		mm (ft.in)	8500 (27'1")	8530 (28'0")	8520 (27'11")	8440 (27'8")	8460 (27'9")
Digging depth	0°	mm (ft.in)	130 (5.1")	135 (5.3")	130 (5.1")	130 (5.1")	140 (5.5")
	10°	mm (ft.in)	515 (1'8")	480 (1'7")	530 (1'9")	530 (1'9")	495 (1'7")
Breakout force	kN		387	448	375	378	433
	kgf (lb)		39500 (87,080)	45680 (100,710)	38200 (84,220)	38600 (85,100)	44150 (97,340)
Operating weight	kg		52700	52320	52840	52900	52500
	(lb)		(116,180)	(115,340)	(116,490)	(116,620)	(115,740)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C

*** Weld on segment edges

**4 Bolt on segment edges

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments. Apply the following weight changes to operating weight and static tipping load.

**Performance Data
Dimensions**

WHEEL LOADERS

Weight Changes

3990 mm (13'1") boom

	Change in Operating Weight		Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
35/65-33-36PR (L4)	0	0	0	0	0	0	3,540	11'7"	525	1'9"	0	0'0"
35/65-33-36PR (L5)	+1,000	+2,205	+715	+1,575	+595	+1,310	3,540	11'7"	525	1'9"	0	0'0"
35/65-33-42PR (L4)	+20	+45	+15	+30	+10	+25	3,555	11'8"	525	1'9"	0	0'0"
35/65 R33* (L4)	-780	-1,720	-555	-1,230	-465	-1,025	3,565	11'8"	460	1'6"	-65	-2.6"
35/65 R33* (L5)	-235	-520	-170	-375	-140	-310	3,565	11'8"	460	1'6"	-65	-2.6"
OPT Counterweight	+1,000	+2,205	+2,380	+5,245	+1,985	+4,370						

3850 mm (12'8") boom

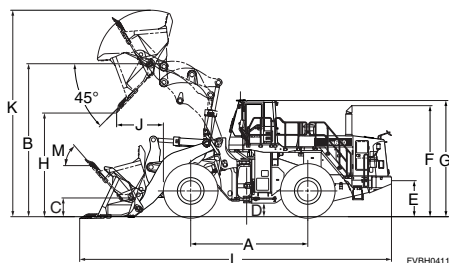
	Change in Operating Weight		Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
35/65-33-36PR (L4)	0	0	0	0	0	0	3,540	11'7"	525	1'9"	0	0'0"
35/65-33-36PR (L5)	+1,000	+2,205	+745	+1,640	+620	+1,365	3,540	11'7"	525	1'9"	0	0'0"
35/65-33-42PR (L4)	+20	+45	+15	+35	+15	+30	3,555	11'8"	525	1'9"	0	0'0"
35/65 R33* (L4)	-780	-1,720	-580	-1,280	-485	-1,065	3,565	11'8"	460	1'6"	-65	-2.6"
35/65 R33* (L5)	-235	-520	-175	-390	-145	-320	3,565	11'8"	460	1'6"	-65	-2.6"
OPT Counterweight	+1,000	+2,205	+2,480	+5,265	+2,065	+4,555						

Performance Data Dimensions

WHEEL LOADERS

WA600-6R

Unit: mm (ft.in)



Tread	3990 mm 13'1"	3850 mm 12'8"
Width over tires	2650 (8'8")	
A Wheelbase	3540 (11'9")	
B Hinge pin height, max. height	5885 (19'3")	5665 (18'7")
C Hinge pin height, carry position	720 (2'4")	670 (2'3")
D Ground clearance	525 (1'9")	
E Hitch height	1385 (4'7")	
F Overall height, top of the stack	4270 (14'0")	
G Overall height, ROPS cab	4460 (14'8")	
M Tilt back angle	50°	

Measured with 35/65-33-36PR (L4) tires

Bucket Type			3990 mm 13'1" Boom			3850 mm 12'8" Boom	
			Excavating Buckets		Stockpile Bucket	Excavating Buckets	
			Spade nose Teeth and WSE***	Straight edge Teeth and BSE**4	Spade nose Teeth and WSE***	Spade nose Teeth and WSE***	Straight edge Teeth and BSE**4
Bucket capacity	Heaped	m ³ (yd ³)	6.4 (8.4)	6.5 (8.5)	7.0 (9.2)	7.0 (9.2)	7.0 (9.2)
	Struck	m ³ (yd ³)	5.3 (6.9)	5.4 (7.1)	5.8 (7.6)	5.8 (7.6)	5.8 (7.6)
Bucket width		mm (ft.in)	3685 (12'1")	3685 (12'1")	3685 (12'1")	3685 (12'1")	3685 (12'1")
Bucket weight		kg (lb)	5115 (11,280)	4735 (10,440)	5255 (11,590)	5245 (11,570)	4865 (10,730)
Static tipping load	Straight	kg (lb)	34200 (75,400)	34580 (76,240)	34060 (75,090)	35400 (78,040)	35780 (78,880)
	Full turn (43°)	kg (lb)	28500 (62,830)	28880 (63,670)	28360 (62,520)	29500 (65,040)	29880 (65,870)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3995 (13'1")	4180 (13'9")	3945 (12'11")	3730 (12'3")	3905 (12'10")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	3015 (9'11")	2875 (9'5")	3050 (10'0")	2900 (9'6")	2775 (9'1")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1800 (5'11")	1610 (5'3")	1850 (6'1")	1885 (6'2")	1690 (5'7")
Reach with arm horizontal and bucket level		mm (ft.in)	4135 (13'7")	3870 (12'8")	4205 (13'9")	4065 (13'4")	3800 (12'6")
Operating height (fully raised)		mm (ft.in)	7925 (20'0")	7925 (20'0")	7995 (26'3")	7775 (25'6")	7775 (25'6")
Overall length		mm (ft.in)	11985 (39'4")	11725 (38'6")	12055 (39'7")	11870 (38'11")	11610 (38'1")
Turning radius*		mm (ft.in)	8500 (27'11")	8530 (28'0")	8520 (27'11")	8440 (27'8")	8460 (27'9")
Digging depth	0°	mm (ft.in)	130 (5.1")	135 (5.3")	130 (5.1")	130 (5.1")	140 (5.5")
	10°	mm (ft.in)	515 (1'8")	480 (1'7")	530 (1'9")	530 (1'9")	495 (1'7")
Breakout force	kN		387	448	375	378	433
	kgf (lb)		39500 (87,080)	45680 (100,710)	38200 (84,220)	38600 (85,100)	44150 (97,340)
Operating weight	kg		52700	52320	52840	52900	52500
	(lb)		(116,180)	(115,340)	(116,490)	(116,620)	(115,740)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C

*** Weld on segment edges

**4 Bolt on segment edges

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments. Apply the following weight changes to operating weight and static tipping load.

**Performance Data
Dimensions**

WHEEL LOADERS

Weight Changes

3990 mm (13'1") boom

	Change in Operating Weight		Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
35/65-33-36PR (L4)	0	0	0	0	0	0	3,540	11'7"	525	1'9"	0	0'0"
35/65-33-36PR (L5)	+1,000	+2,205	+715	+1,575	+595	+1,310	3,540	11'7"	525	1'9"	0	0'0"
35/65-33-42PR (L4)	+20	+45	+15	+30	+10	+25	3,555	11'8"	525	1'9"	0	0'0"
35/65 R33* (L4)	-780	-1,720	-555	-1,230	-465	-1,025	3,565	11'8"	460	1'6"	-65	-2.6"
35/65 R33* (L5)	-235	-520	-170	-375	-140	-310	3,565	11'8"	460	1'6"	-65	-2.6"
OPT Counterweight	+1,000	+2,205	+2,380	+5,245	+1,985	+4,370						

3850 mm (12'8") boom

	Change in Operating Weight		Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
35/65-33-36PR (L4)	0	0	0	0	0	0	3,540	11'7"	525	1'9"	0	0'0"
35/65-33-36PR (L5)	+1,000	+2,205	+745	+1,640	+620	+1,365	3,540	11'7"	525	1'9"	0	0'0"
35/65-33-42PR (L4)	+20	+45	+15	+35	+15	+30	3,555	11'8"	525	1'9"	0	0'0"
35/65 R33* (L4)	-780	-1,720	-580	-1,280	-485	-1,065	3,565	11'8"	460	1'6"	-65	-2.6"
35/65 R33* (L5)	-235	-520	-175	-390	-145	-320	3,565	11'8"	460	1'6"	-65	-2.6"
OPT Counterweight	+1,000	+2,205	+2,480	+5,265	+2,065	+4,555						

**Performance Data
Dimensions**

WHEEL LOADERS

WA600-3

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (straight edge) with tip teeth	6.1 (8.0)	5.1 (6.7)	3685 (12'1")	4250 (9,370)	37600 (82,890)
II Excavating bucket (spade nose) with tip teeth	6.1 (8.0)	5.1 (6.7)	3685 (12'1")	4305 (9,490)	43750 (96,450)
III Coal bucket (straight edge)	11.0 (14.4)	9.5 (12.4)	4200 (13'9")	4420 (9,740)	31950 (70,440)

* Excluding tire protectors

Tires/Buckets	Operating weight kg(lb)		
	I	II	III
35/65-33-24PR (L4)	45180 (99,600)	45235 (99,730)	45350 (99,980)
35/65-33-24PR (L5)	46320 (102,120)	46375 (102,240)	46490 (102,490)
29.5-29-28PR (L4)	44510 (98,130)	44565 (98,250)	44680 (98,500)

Tires/Buckets	Static tipping load kg(lb)								
	Straight			35° turn			40° full turn		
	I	II	III	I	II	III	I	II	III
35/65-33-24PR (L4)	31410 (69,250)	31355 (69,130)	31240 (68,870)	28550 (62,940)	28495 (62,820)	28380 (62,570)	27740 (61,160)	27685 (61,030)	27570 (60,780)
35/65-33-24PR (L5)	32200 (70,990)	32145 (70,870)	32030 (70,610)	29270 (64,530)	29215 (64,410)	29100 (64,150)	28440 (62,700)	28385 (62,580)	28270 (62,320)
29.5-29-28PR (L4)	30945 (68,220)	30890 (68,100)	30775 (67,850)	28130 (62,020)	28075 (61,890)	27960 (61,640)	27330 (60,250)	27275 (60,130)	27160 (59,880)

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, front half fenders, tip type teeth and operator.
- Machine stability and operating weight are affected by counterweight or ballast, tire size and other attachments. Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.

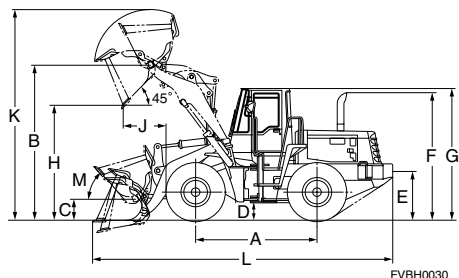
Weight Changes

	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS canopy	-800 (-1,760)	-700 (-1540)	-615 (-1,360)
Remove steel cab	-430 (-950)	-310 (-680)	-275 (-610)
Remove teeth	-372 (-820)	-475 (-1050)	-475 (-1,050)
Install additional counterweight	+1000 (+2,200)	+2300 (+5070)	+2030 (+4,480)

Performance Data Dimensions

WHEEL LOADERS

WA600-3



	Unit: mm (ft.in)	
	35/65-33 tires	29.5-29 tires
Tread	2650 (8'8")	2650 (8'8")
Width over tires	3570 (11'9")	3480 (11'5")
A Wheelbase	4100 (13'5")	4100 (13'5")
B Hinge pin height, max. height	5155 (16'11")	5110 (16'9")
C Hinge pin height, carry position	670 (2'2")	625 (2'1")
D Ground clearance	495 (1'7")	450 (1'6")
E Hitch height	1295 (4'3")	1250 (4'1")
F Overall height, top of the stack	4125 (13'6")	4080 (13'5")
G Overall height, ROPS canopy	4250 (13'11")	4205 (13'10")
	Overall height, ROPS and cab	4250 (13'11") 4205 (13'10")
M Tilt back angle		49.5°

Measured with 35/65-33 tires

	Buckets	I	II	III
H. Dumping clearance, max. height and 45° dump angle**		3530 (11'7")	3350 (11')	3370 (11'1")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		2470 (8'1")	2600 (8'6")	2735 (9')
J. Reach at max. height and 45° dump angle**		1795 (5'11")	1990 (6'6")	2005 (6'7")
Reach with arm horizontal and bucket level		3240 (10'8")	3500 (11'6")	3745 (12'3")
K. Operating height (fully raised)		7165 (23'6")	7165 (23'6")	7440 (24'5")
L. Overall length		10840 (35'7")	11105 (36'5")	11010 (36'1")
Turning radius*		8265 (27'1")	8260 (27'1")	8590 (28'2")
Digging depth	0°	100 (3.9")	100 (3.9")	40 (1.6")
	10°	440 (1'5")	470 (1'7")	395 (1'3")

Measured with 29.5-29 tires

Unit: mm (ft.in)

	Buckets	I	II	III
H. Dumping clearance, max. height and 45° dump angle**		3485 (11'5")	3305 (10'10")	3325 (10'11")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		2500 (8'2")	2630 (8'7")	2765 (9'1")
J. Reach at max. height and 45° dump angle**		1825 (6')	2020 (6'8")	2035 (6'8")
Reach with arm horizontal and bucket level		3270 (10'9")	3530 (11'7")	3775 (12'5")
K. Operating height (fully raised)		7120 (23'4")	7120 (23'4")	7395 (24'3")
L. Overall length		10880 (35'8")	11145 (36'7")	11050 (36'3")
Turning radius*		8265 (27'1")	8260 (27'1")	8590 (28'2")
Digging depth	0°	145 (5.7")	145 (5.7")	85 (3.3")
	10°	485 (1'7")	515 (1'8")	440 (1'5")

* Bucket at carry, outside corner of bucket.

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

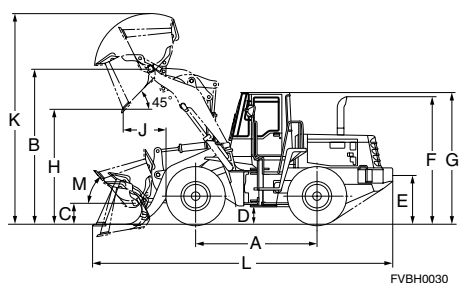
WA600-3 (with high lift boom)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (straight edge) with tip teeth	5.6 (7.3)	4.0 (5.2)	3685 (12'1")		44500 (98,210)
II Excavating bucket (spade nose) with tip teeth	5.6 (7.3)	4.0 (5.2)	3685 (12'1")	4400 (9,700)	37500 (82,670)

* Excluding tire protectors

Tires/Buckets	Operating weight kg(lb)		Static tipping load kg(lb)			
			Straight		40° full turn	
	I	II	I	II	I	II
35/65-33-24PR (L4)	46100 (101,630)	46600 (102,730)	28600 (63,050)	29100 (64,150)	25240 (55,640)	25650 (56,550)

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, front half fenders, tip type teeth, 3820kg (8420 lb) counterweight for high lift boom and operator.
- Machine stability and operating weight are affected by counterweight or ballast, tire size and other attachments. Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.



	Unit: mm (ft.in)
Tread	35/65-33 tires
Width over tires	2650 (8'8")
A Wheelbase	3570 (11'9")
B Hinge pin height, max. height	4100 (13'5")
C Hinge pin height, carry position	5770 (18'11")
D Ground clearance	670 (2'2")
E Hitch height	495 (1'7")
F Overall height, top of the stack	1385 (4'7")
G Overall height, ROPS canopy	4125 (13'6")
Overall height, ROPS and cab	4250 (13'11")
M Tilt back angle	4250 (13'11")
	49.5°

Measured with 35/65-33 tires

	Buckets	I	II
H. Dumping clearance, max. height and 45° dump angle**		4180 (13'9")	3995 (13'1")
J. Reach at max. height and 45° dump angle**		1690 (5'7")	1885 (6'2")
K. Operating height (fully raised)		7720 (25'4")	7720 (37'10")
L. Overall length		11520 (37'10")	11850 (38'11")
Turning radius*		8480 (27'10")	8480 (27'10")
Digging depth	0°	50 (1.9")	125 (4.8")
	10°	410 (1'4")	485 (1'7")

* Bucket at carry, outside corner of bucket.

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA600-3 (for Load & Carry)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (spade nose) with tip teeth	7.5 (9.8)	6.8 (8.9)	3685 (12'1")	5075 (11,190)	35400 (78,040)

* Excluding tire protectors

	Operating weight kg(lb)	Static tipping load kg(lb)	
		Straight	40° full turn
Tires/Buckets	I	I	I
35/65-33-42PR (L4)	49400 (108,910)	38900 (85,760)	34300 (75,620)

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, front half fenders, tip type teeth, 5300kg (11680 lb) counterweight for Load & Carry and operator.
- Machine stability and operating weight are affected by counterweight or ballast, tire size and other attachments.
Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.

	Unit: mm (ft.in)	
	35/65-33 tires	
	Tread	2650 (8'8")
	Width over tires	3570 (11'9")
	A Wheelbase	4100 (13'5")
	B Hinge pin height, max. height	4850 (15'11")
	C Hinge pin height, carry position	670 (2'2")
	D Ground clearance	495 (1'7")
	E Hitch height	1385 (4'7")
	F Overall height, top of the stack	4125 (13'6")
	G Overall height, ROPS canopy	4250 (13'11")
	Overall height, ROPS and cab	4250 (13'11")
	M Tilt back angle	49.5°

Measured with 35/65-33 tires

	Buckets	I
H. Dumping clearance, max. height and 45° dump angle**		2920 (9'7")
J. Reach at max. height and 45° dump angle**		2105 (6'11")
K. Operating height (fully raised)		7065 (23'2")
L. Overall length		11395 (37'5")
Turning radius*		8225 (27'0")
Digging depth	0°	105 (4.1")
	10°	505 (1'8")

- * Bucket at carry, outside corner of bucket.
 ** At the end of teeth or B.O.C.

**Performance Data
Dimensions**

WHEEL LOADERS

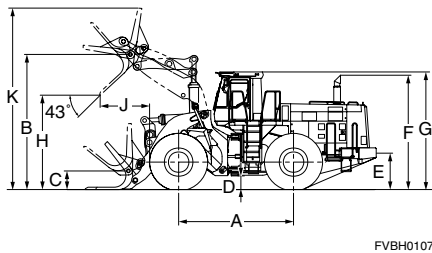
WA600-3 (for stone handling)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Stone handling bucket	—	—			38800 (85,540)

	Operating weight kg(lb)	Static tipping load kg(lb)	
		Straight	40° full turn
Tires/Buckets	I	I	I
35/36-33-42PR (L5)	41740 (92,010)	32900 (72,530)	28850 (63,600)

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, front half fenders, tip type teeth, 4300kg (9480 lb) counterweight for stone handling and operator.
- Machine stability and operating weight are affected by counterweight or ballast, tire size and other attachments. Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.

Unit: mm (ft.in)



FVBH0107

Tread	35/65-33 tires 2650 (8'8")
Width over tires	3570 (11'9")
A Wheelbase	4100 (13'5")
B Hinge pin height, max. height	4850 (15'11")
C Hinge pin height, carry position	670 (2'2")
D Ground clearance	495 (1'7")
E Hitch height	1385 (4'7")
F Overall height, top of the stack	4125 (13'6")
G Overall height, ROPS canopy	4250 (13'11")
Overall height, ROPS and cab	4250 (13'11")

Measured with 35/65-33 tires

	Buckets	I
H. Dumping clearance, max. height and 45° dump angle**		3335 (10'11")
J. Reach at max. height and 45° dump angle**		1850 (6'1")
K. Operating height (fully raised)		
L. Overall length		10550 (34'7")
Turning radius*		
Digging depth	0°	45 (1.8")
	10°	361 (1'2")

* Bucket at carry, outside corner of bucket.

** At the end of teeth or B.O.C.

NOTE:

- It forbids riding over obstacle during stone handling (Allowable riding over height must be 50 mm (2") or less).
- Travel speed is set only to 1st gear during stone handling.

Performance Data Dimensions

WHEEL LOADERS

WA700-3

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (straight edge) without tip teeth	8.7 (11.4)	7.6 (9.9)	4330 (14'2")	6770 (14,925)	64700 (142,640)
II Excavating bucket (spade nose) without tip teeth	8.7 (11.4)	7.6 (9.9)	4330 (14'2")	7150 (15,760)	52700 (116,180)
III General-purpose bucket (straight edge) without tip teeth	9.4 (12.3)	8.2 (10.7)	4330 (14'2")	7150 (15,760)	62400 (137,600)

* Excluding tire protectors

Tires/Buckets	Operating weight kg(lb)			Static tipping load kg(lb)					
	I	II	III	Straight			40° full turn		
				I	II	III	I	II	III
40/65-39-36 PR (L5)	70620 (155,690)	71000 (156,530)	71000 (156,530)	46400 (102,290)	46050 (101,520)	46700 (102,955)	40730 (89,790)	40440 (89,070)	41080 (90,565)
41.25/70-39-34 PR (L5)	71220 (157,010)	71600 (157,850)	71600 (157,850)	46830 (103,240)	46480 (102,470)	47130 (103,900)	41100 (90,610)	40750 (89,840)	41450 (91,380)
45/65-R39 (L5)	71700 (158,070)	72080 (158,910)	72080 (158,910)	47160 (103,970)	46810 (103,200)	47460 (104,630)	41400 (91,270)	41070 (90,540)	41750 (92,040)

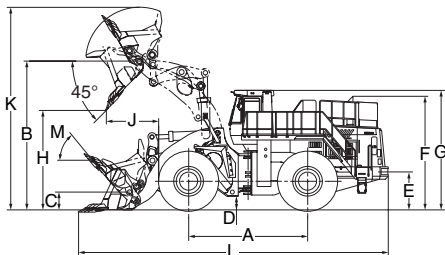
- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, front half-fenders and tip type teeth and operator.
- Machine stability and operating weight are affected by counterweight or ballast, tire size and other attachments. Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.

Weight Changes

	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS canopy	-1050 (-2,315)	-965 (-2,130)	-850 (-1,870)
Remove steel cab	-430 (-950)	-315 (-690)	-275 (-610)
Remove teeth and adapter	-890 (-1,960)	+1150 (+2,535)	+1005 (+2,220)

Unit: mm (ft.in)

	40/65-39-36PR (L5) tires	45/65 R39 (L5) tires
Tread	3000 (9'10")	3060 (10')
Width over tires	4040 (13'3")	4160 (13'8")
A Wheelbase	4800 (15'9")	4800 (15'9")
B Hinge pin height, max. height	5990 (19'8")	6035 (19'10")
C Hinge pin height, carry position	720 (2'4")	765 (2'6")
D Ground clearance	540 (1'9")	585 (1'11")
E Hitch height	1530 (5')	1575 (5'2")
F Overall height, top of the stack	4825 (15'10")	4870 (16')
G Overall height, ROPS canopy	4790 (15'9")	4835 (15'10")
M Tilt back angle	50°	



Buckets	Measured with 40/65-39-36 PR (L5) tires			Measured with 45/65-R39 (L5) tires		
	I	II	III	I	II	III
H. Dumping clearance, max. height and 45° dump angle**	4280 (14'1")	4040 (13'3")	4195 (13'9")	4325 (14'2")	4085 (13'5")	4240 (13'11")
J. Reach at max. height and 45° dump angle**	1890 (6'2")	2135 (7')	1975 (6'6")	1890 (6'2")	2135 (7')	1975 (6'6")
Reach at 2130 mm (7") cut edge clearance and 45° dump angle	2770 (9'1")	2985 (9'10")	2850 (9'4")	2770 (9'1")	2985 (9'10")	2850 (9'4")
Reach with arm horizontal and bucket level	3500 (11'6")	3840 (12'7")	3620 (11'10")	3500 (11'6")	3840 (12'7")	3620 (11'10")
K. Operating height (fully raised)	8170 (26'10")	8170 (26'10")	8320 (27'3")	8215 (26'11")	8215 (26'11")	8365 (27'5")
L. Overall length (with tipteeth)	12160 (39'11")	12500 (41')	12280 (40'3")	12135 (39'10")	12475 (40'11")	12255 (40'2")
Turning radius*	9630 (31'7")	9615 (31'7")	9660 (31'8")	9630 (31'7")	9615 (31'7")	9660 (31'8")
Digging depth	0°	170 (7")	170 (7")	170 (7")	125 (4.9")	125 (4.9")
	10°	510 (1'8")	570 (1'10")	535 (1'9")	465 (1'6")	525 (1'9")

* Bucket at carry, outside corner of bucket.

** At the end of tooth

Performance Data Dimensions

WHEEL LOADERS

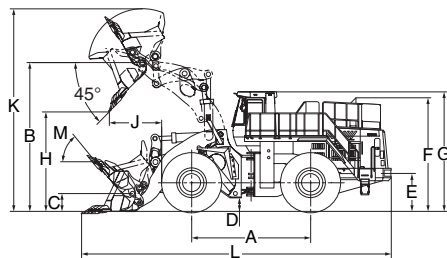
WA700-3 (with high lift boom)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (spade nose) with tip teeth	8.0 (10.5)	7.0 (9.2)	4330 (14'2")	6830 (15,060)	55800 (123,020)
II Stockpile bucket (spade nose) with tip teeth	8.7 (11.4)	7.6 (9.9)	4330 (14'2")	7150 (15,760)	52700 (116,180)

* Excluding tire protectors

Tires/Buckets	Operating weight kg(lb)		Static tipping load kg(lb)			
			Straight		40° turn	
	I	II	I	II	I	II
40/65-39-36PR (L5)	72200 (159,170)	72400 (159,610)	41900 (92,370)	41600 (91,710)	36400 (80,250)	36100 (79,590)

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, front half-fenders, additional counterweight 1040 kg (2290 lb) and tip type teeth and operator.
- Machine stability and operating weight are affected by counterweight or ballast, tire size and other attachments. Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.



	Unit: mm (ft.in)
Tread	40/65-39-36 PR (L5) tires
Width over tires	3000 (9'10")
A Wheelbase	4040 (13'3")
B Hinge pin height, max. height	4800 (15'9")
C Hinge pin height, carry position	6550 (21'6")
D Ground clearance	720 (2'4")
E Hitch height	540 (1'9")
F Overall height, top of the stack	1545 (5'1")
G Overall height, ROPS and cab	4580 (15')
M Tilt back angle	4790 (15'9")
	50°

Measured with 40/65-39-36 PR (L5) tires

	Buckets	I	II
H. Dumping clearance, max. height and 45° dump angle**		4645 (15'3")	4575 (15'0")
J. Reach at max. height and 45° dump angle**		2120 (6'11")	2190 (7'2")
K. Operating height (fully raised)		8625 (28'6")	8720 (28'7")
L. Overall length		13315 (43'8")	13410 (44'0")
Turning radius*		9840 (32'3")	9865 (32'4")
Digging depth	0°	185 (7.3")	185 (7.3")
	10°	570 (1'10")	590 (1'11")

* Bucket at carry, outside corner of bucket.

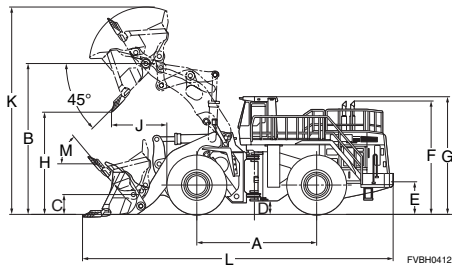
** At the end of teeth

Performance Data Dimensions

WHEEL LOADERS

WA800-3E0

Unit: mm (ft.in)



	Standard boom	High lift boom	Short boom
Tread		3350 (11'0")	
Width over tires		4585 (15'1")	
A Wheelbase		5450 (17'11")	
B Hinge pin height, max. height	6785 (22'3")	7265 (23'10")	6140 (20'2")
C Hinge pin height, carry position		850 (2'9")	
D Ground clearance		550 (1'10")	
E Hitch height		1390 (4'7")	
F Overall height, top of the stack		5130 (16'10")	
G Overall height, ROPS cab		5275 (17'4")	
M Tilt back angle		50°	

Measured with 45/65-45-46PR (L5) tires

Bucket Type			Standard boom		High lift boom	Short boom
			Excavating Bucket	Stockpile Bucket	Rock Bucket	Load & Carry
			Spade nose Teeth	Spade nose Teeth	Spade nose Teeth	Spade nose Teeth
Bucket capacity	Heaped	m ³ (yd ³)	11.0 (14.4)	12.3 (16.1)	10.0 (13.1)	14.0 (18.3)
	Struck	m ³ (yd ³)	9.3 (12.2)	10.4 (13.6)	8.5 (11.1)	11.5 (15.0)
Bucket width		mm (ft.in)	4810 (15'9")	4810 (15'9")	4810 (15'9")	5090 (16'8")
Bucket weight		kg (lb)	11430 (25,200)	12150 (26,790)	10750 (23,700)	12080 (26,630)
Static tipping load	Straight	kg (lb)	61090 (134,680)	60320 (132,980)	58710 (129,430)	68860 (151,810)
	Full turn (43°)	kg (lb)	53740 (118,480)	52970 (116,780)	51640 (113,850)	60660 (133,730)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	4630 (15'2")	4252 (14'10")	5210 (17'1")	3820 (12'6")
Reach at 2130 mm (7") clearance and 45° dump angle		mm (ft.in)	3455 (11'4")	3550 (11'8")	3915 (12'10")	3350 (11'0")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	2385 (7'10")	2495 (8'2")	2315 (7'7")	2690 (8'10")
Reach with arm horizontal and bucket level		mm (ft.in)	4360 (14'4")	4510 (14'10")	5010 (16'5")	4550 (14'11")
K. Operating height (fully raised)		mm (ft.in)	9300 (30'6")	9430 (30'11")	9625 (31'7")	8740 (28'8")
Overall length		mm (ft.in)	13960 (45'10")	14110 (46'4")	14695 (48'3")	13685 (44'11")
Turning radius*		mm (ft.in)	10900 (35'9")	10965 (36'0")	11100 (36'5")	11020 (36'2")
Digging depth	0°	mm (ft.in)	165 (6.5")	165 (6.5")	200 (7.9")	200 (7.9")
	10°	mm (ft.in)	605 (2'0")	630 (2'1")	620 (2'0")	670 (2'2")
Breakout force		kN	676.7	629.3	703.5	657.3
		kgf (lb)	69000 (152,120)	64170 (141,470)	71790 (158,270)	67000 (147,710)
Operating weight		kg	101900	102620	103420	104500
		(lb)	(224,650)	(226,240)	(228,000)	(230,380)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments. Apply the following weight changes to operating weight and static tipping load.

Weight Changes

	Operating weight		Tipping Load			
			Straight		Full Turn	
	kg	lb	kg	lb	kg	lb
Remove ROPS canopy	-1,385	-3,055	-1,220	-2,690	-1,180	-2,600
Remove steel cab	-430	-950	-335	-740	-330	-730
Install additional counter weight	+1,600	+3,530	+3,850	+8,490	+3,400	+7,500

Performance Data Dimensions

WHEEL LOADERS

WA800-3

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (spade nose) with tip teeth	11.0 (14.4)	9.3 (12.2)	4810 (15'9")	11430 (25,200)	69000 (152,120)
II Stock pile (spade nose) with teeth	12.3 (16.1)	10.4 (13.6)	4810 (15'9")	12150 (26,790)	64170 (141,470)

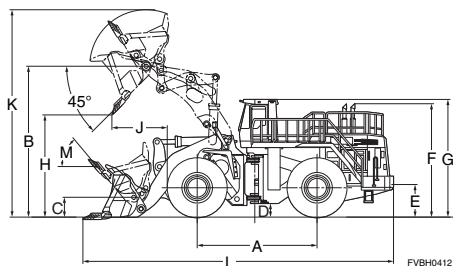
* Excluding tire protectors

Tires/Buckets	Operating weight kg(lb)		Static tipping load kg(lb)			
			Straight		40° full turn	
	I	II	I	II	I	II
45/65-45-46PR(L5)	98300 (216,710)	99020 (218,300)	57400 (126,540)	56680 (124,960)	50500 (111,330)	49780 (109,740)
45/65-45-50PR(L4)	96580 (212,920)	97300 (214,510)	54820 (120,860)	54100 (119,270)	48260 (106,390)	47540 (104,810)
45/65-45-50PR(L5)	98500 (217,150)	99220 (218,740)	57700 (127,210)	56980 (125,620)	50760 (111,910)	50040 (110,320)

- All dimensions, weights and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, air conditioner, tip type teeth and operator.
- Machine stability and operating weight are affected by counterweight, or ballast, tire size and other attachments. Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.

Weight Changes

	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS canopy	-1385 (-3,055)	-1220 (-2,690)	-1180 (-2,600)
Remove steel cab	-430 (-950)	-335 (-740)	-330 (-730)
Install additional counter weight	+1600 (+3,530)	+3850 (+8,490)	+3400 (+7,500)



	Unit: mm (ft.in)
Tread	45/65-45 tires 3350 (11')
Width over tires	4585 (15'1")
A Wheelbase	5450 (17'11")
B Hinge pin height, max. height	6785 (22'3")
C Hinge pin height, carry position	850 (2'9")
D Ground clearance	550 (1'10")
E Hitch height	1390 (4'7")
F Overall height, top of the stack	5080 (16'8")
G Overall height, ROPS and cab	5275 (17'4")
M Tilt back angle	50°

Measured with 45/65-45 tires

	Buckets	I	II
H. Dumping clearance, max. height and 45° dump angle**		4630 (15'2")	4525 (14'10")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		3455 (11'4")	3550 (11'8")
J. Reach at max. height and 45° dump angle**		2385 (7'10")	2495 (8'2")
Reach with arm horizontal and bucket level		4360 (14'4")	4510 (14'10")
K. Operating height (fully raised)		9300 (30'6")	9430 (30'11")
L. Overall length		13730 (45')	13880 (45'6")
Turning radius*		10900 (35'9")	10965 (36'0")
Digging depth	0°	165 (6.5")	165 (6.5")
	10°	605 (1'11")	630 (2'1")

* Bucket at carry, outside corner of bucket.

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA800-3 (with high lift boom)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (spade nose) with tip teeth	10.0 (13.1)	8.5 (11.1)	4810 (15'9")		71790 (158,270)

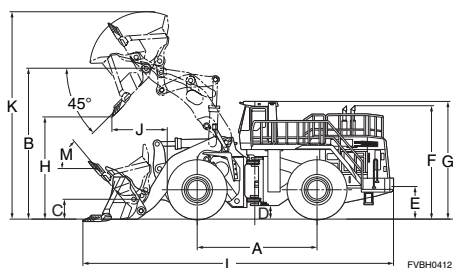
* Excluding tire protectors

Tires/Buckets	Operating weight kg(lb)		Static tipping load kg(lb)			
	I	II	Straight		40° full turn	
			I	II	I	II
45/65-45-46PR(L5)	99820 (220,060)		55160 (121,610)		48530 (106,990)	

- All dimensions, weights and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, air conditioner, tip type teeth, 4500kg (9920 lb) counterweight for high lift boom and operator.
- Machine stability and operating weight are affected by counterweight, or ballast, tire size and other attachments.
Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.

Weight Changes

Weight Changes	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS canopy	-1385 (-3,055)	-1220 (-2,690)	-1180 (-2,600)
Remove steel cab	-430 (-950)	-335 (-740)	-330 (-730)
Install additional counter weight	+1600 (+3,530)	+3850 (+8,490)	+3400 (+7,500)



Tread	
Width over tires	
A Wheelbase	
B Hinge pin height, max. height	
C Hinge pin height, carry position	
D Ground clearance	
E Hitch height	
F Overall height, top of the stack	
G Overall height, ROPS and cab	
M Tilt back angle	

Unit: mm (ft.in)

45/65-45 tires

3350 (11')

4585 (15'1")

5450 (17'11")

7265 (23'10")

850 (2'9")

550 (1'10")

1390 (4'7")

5080 (16'8")

5275 (17'4")

50°

Measured with 45/65-45 tires

	Buckets	I	II
H. Dumping clearance, max. height and 45° dump angle**		5210 (17'1")	
J. Reach at max. height and 45° dump angle**		2315 (7'7")	
K. Operating height (fully raised)		9625 (31'7")	
L. Overall length		14480 (47'6")	
Turning radius*		11100 (35'8")	
Digging depth	0°	200 (7.9")	
	10°	620 (2'0")	

* Bucket at carry, outside corner of bucket.

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA800-3 (for Load & Carry)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (spade nose) with tip teeth	14.0 (18.3)	11.5 (15.0)	5040 (16'6")		67000 (147,710)

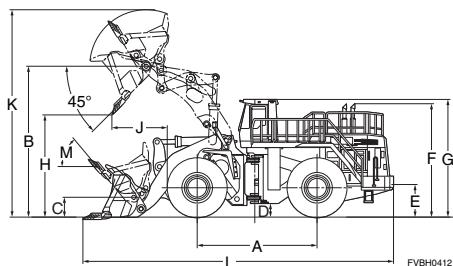
* Excluding tire protectors

	Operating weight kg(lb)		Static tipping load kg(lb)			
			Straight		40° full turn	
Tires/Buckets	I	II	I	II	I	II
45/65-45-58PR(L4)	100900 (222,440)		64700 (142,640)		57000 (125,660)	

- All dimensions, weights and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, air conditioner, tip type teeth, 5500kg (12130 lb) counterweight for Load & Carry and operator.
- Machine stability and operating weight are affected by counterweight, or ballast, tire size and other attachments.
Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.

Weight Changes

	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS canopy	-1385 (-3,055)	-1220 (-2,690)	-1180 (-2,600)
Remove steel cab	-430 (-950)	-335 (-740)	-330 (-730)
Install additional counter weight	+1600 (+3,530)	+3850 (+8,490)	+3400 (+7,500)



Tread	
Width over tires	
A Wheelbase	
B Hinge pin height, max. height	
C Hinge pin height, carry position	
D Ground clearance	
E Hitch height	
F Overall height, top of the stack	
G Overall height, ROPS and cab	
M Tilt back angle	

Unit: mm (ft.in)

45/65-45 tires

3350 (11')

4585 (15'1")

5450 (17'11")

6140 (20'2")

850 (2'9")

550 (1'10")

1390 (4'7")

5080 (16'8")

5275 (17'4")

50°

Measured with 45/65-45 tires

	Buckets	I	II
H. Dumping clearance, max. height and 45° dump angle**		3810 (12'6")	
J. Reach at max. height and 45° dump angle**		2680 (8'10")	
K. Operating height (fully raised)		8740 (28'8")	
L. Overall length		13280 (43'7")	
Turning radius*		11020 (36'2")	
Digging depth	0°	200 (7.9")	
	10°	670 (2'2")	

* Bucket at carry, outside corner of bucket.

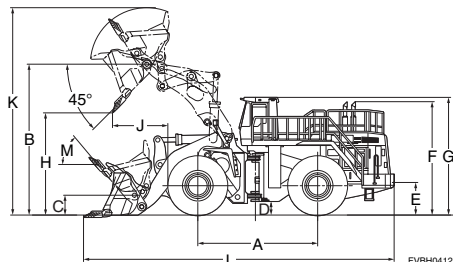
** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA900-3E0

Unit: mm (ft.in)



Tread	Standard boom	High lift boom
Width over tires	3350 (11'0")	
A Wheelbase	4585 (15'1")	
B Hinge pin height, max. height	5450 (17'11")	
C Hinge pin height, carry position	6960 (22'10")	7445 (24'5")
D Ground clearance	800 (2'7")	
E Hitch height	550 (1'10")	
F Overall height, top of the stack	1390 (4'7")	
G Overall height, ROPS cab	5130 (16'10")	
M Tilt back angle	5275 (17'4")	50°

Measured with 45/65-45-58 (L5) tires

Bucket Type		Standard boom		High lift boom	
		Excavating Bucket		Excavating Bucket	
		Spade nose Tipteeth		Spade nose Teeth	
Bucket capacity	Heaped	m ³ (yd ³)	13.0 (17.0)	11.5 (15.0)	
	Struck	m ³ (yd ³)	11.0 (14.4)	9.7 (12.7)	
Bucket width		mm (ft.in)	4810 (15'9")		4810 (15'9")
Bucket weight		kg (lb)	12330 (27,180)		11370 (25,070)
Static tipping load	Straight	kg (lb)	65670 (144,780)		62540 (137,880)
	Full turn (43°)	kg (lb)	57430 (126,610)		55030 (121,320)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	4640 (15'3")	5255 (17'3")	
Reach at 2130 mm (7") clearance and 45° dump angle		mm (ft.in)	3650 (12'0")	4020 (13'2")	
J. Reach at max. height and 45° dump angle**		mm (ft.in)	2450 (8'0")	2235 (7'4")	
Reach with arm horizontal and bucket level		mm (ft.in)	4640 (15'3")	4760 (15'7")	
K. Operating height (fully raised)		mm (ft.in)	9680 (31'9")	9875 (32'5")	
Overall length		mm (ft.in)	14490 (47'6")	14685 (48'2")	
Turning radius*		mm (ft.in)	11000 (72'2")	11100 (72'10")	
Digging depth	0°	mm (ft.in)	165 (6.5")	160 (6.3")	
	10°	mm (ft.in)	645 (2'1")	610 (2'0")	
Breakout force		kN kgf (lb)	666 67900 (149,690)	703 71700 (158,070)	
Operating weight		kg (lb)	107200 (236,340)	107350 (236,670)	

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
 - Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
 - Machine stability and operating weight affected by counterweight, tire size, and other attachments.
- Apply the following weight changes to operating weight and static tipping load.

Weight Changes

	Operating weight		Tipping Load			
			Straight		Full Turn	
	kg	lb	kg	lb	kg	lb
Remove ROPS canopy	-1,385	-3,055	-1,220	-2,690	-1,180	-2,600
Remove steel cab	-430	-950	-335	-740	-330	-730

Performance Data Dimensions

WHEEL LOADERS

WA900-3

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (spade nose) with tip teeth	13.0 (17.0)	11.0 (14.4)	4810 (15'9")	12320 (27,160)	67900 (149,690)

* Excluding tire protectors

	Operating weight kg(lb)	Static tipping load kg(lb)	
		Straight	40° full turn
Tires/Buckets	I	I	I
45/65-45-58PR(L5)	101550 (223,880)	66140 (145,810)	58200 (128,310)

- All dimensions, weights and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, air conditioner, tip type teeth and operator.
- Machine stability and operating weight are affected by counterweight, or ballast, tire size and other attachments.
Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.

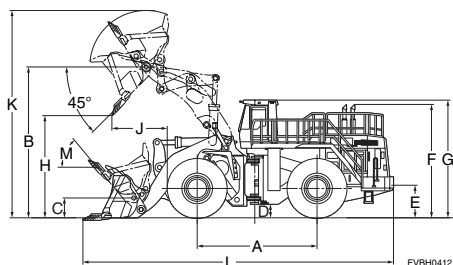
Weight Changes

Change in operating weight kg (lb)

Change in tipping load kg (lb)
Straight Full turn

Remove ROPS canopy	-1385 (-3,055)	-1220 (-2,690)	-1180 (-2,600)
Remove steel cab	-430 (-950)	-335 (-740)	-330 (-730)

Unit: mm (ft.in)



Tread	45/65-45-Tires	3350 (11")
Width over tires		4585 (15'1")
A Wheelbase		5450 (17'11")
B Hinge pin height, max. height		6960 (22'10")
C Hinge pin height, carry position		800 (2'7")
D Ground clearance		550 (1'10")
E Hitch height		1300 (4'3")
F Overall height, top of the stack		5080 (16'8")
G Overall height, ROPS and cab		5275 (17'4")
M Tilt back angle		50°

Measured with 45/65-45 tires

	Bucket	I
H. Dumping clearance, max. height and 45° dump angle**		4640 (15'3")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		3650 (12')
J. Reach at max. height and 45° dump angle**		2450 (8')
Reach with arm horizontal and bucket level		4640 (15'3")
K. Operating height (fully raised)		9680 (31'9")
L. Overall length		14270 (46'10")
Turning radius*		11000 (36'1")
Digging depth	0°	165 (6.5")
	10°	645 (2'1")

* Bucket at carry, outside corner of bucket.

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA900-3 (with high lift boom)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (spade nose) with tip teeth	11.5 (15.0)	9.7 (12.7)	4810 (15'9")		71700 (158,070)

* Excluding tire protectors

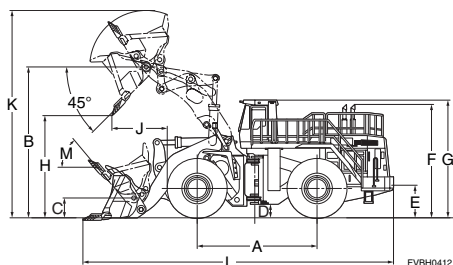
	Operating weight kg(lb)	Static tipping load kg(lb)	
		Straight	40° full turn
Tires/Buckets	I	I	I
45/65-45-58PR(L5)	101920 (224,690)	62540 (137,880)	55030 (121,320)

- All dimensions, weights and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, air conditioner, tip type teeth 5900kg (13010 lb) counterweight for high lift boom and operator.
- Machine stability and operating weight are affected by counterweight, or ballast, tire size and other attachments.
Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.

Weight Changes

Weight Changes	Change in operating weight kg (lb)	Change in tipping load kg (lb)	
		Straight	Full turn
Remove ROPS canopy	-1385 (-3,055)	-1220 (-2,690)	-1180 (-2,600)
Remove steel cab	-430 (-950)	-335 (-740)	-330 (-730)

Unit: mm (ft.in)



Tread	45/65-45-Tires	3350 (11")
Width over tires		4585 (15'1")
A Wheelbase		5450 (17'11")
B Hinge pin height, max. height		7445 (24'5")
C Hinge pin height, carry position		800 (2'7")
D Ground clearance		550 (1'10")
E Hitch height		1390 (4'7")
F Overall height, top of the stack		5080 (16'8")
G Overall height, ROPS and cab		5275 (17'4")
M Tilt back angle		50°

Measured with 45/65-45 tires

	Bucket	I
H. Dumping clearance, max. height and 45° dump angle**		5255 (17'3")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		3650 (12')
J. Reach at max. height and 45° dump angle**		2235 (7'4")
Reach with arm horizontal and bucket level		4640 (15'3")
K. Operating height (fully raised)		9875 (32'5")
L. Overall length		14790 (47'6")
Turning radius*		11200 (36'9")
Digging depth	0°	160 (6")
	10°	610 (2'0")

* Bucket at carry, outside corner of bucket.

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

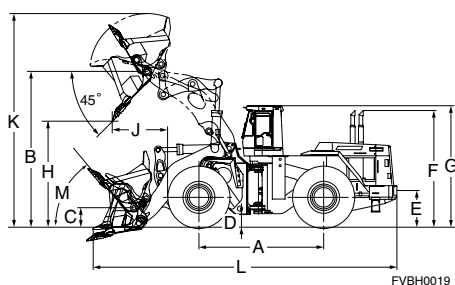
WA1200-3

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (spade nose) with tip teeth	20.0 (26.2)	17.2 (22.5)	6400 (21')	23840 (52,560)	130000 (286,600)

* Excluding tire protectors

	Operating weight kg(lb)	Static tipping load kg(lb)	
		Straight	40° full turn
Tires/Buckets	I	I	I
55.5/80-57-68PR(L5)	205200 (452,390)	119800 (264,100)	104800 (231,100)
65/65-57-62PR(L5)	210200 (463,400)	123800 (272,900)	107700 (237,400)

- All dimensions, weights and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, air conditioner, tip type teeth and operator.
- Machine stability and operating weight are affected by counterweight, or ballast, tire size and other attachments. Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.



FVBH0019

	Unit: mm (ft.in)	
Tread	55/80-57 tires 4300 (14'1")	65/65-57 tires 4300 (14'1")
Width over tires	5710 (18'9")	5970 (18'9")
A Wheelbase	7100 (23'4")	7100 (23'4")
B Hinge pin height, max. height	8830 (29')	8895 (29'2")
C Hinge pin height, carry position	1150 (3'9")	1150 (3'9")
D Ground clearance	650 (2'2")	715 (2'4")
E Hitch height	1310 (4'4")	1375 (4'6")
F Overall height, top of the stack	6630 (21'9")	6695 (22')
G Overall height, ROPS and cab	6865 (22'6")	6930 (22'9")
M Tilt back angle	50°	

Measured with 55.5/80-57 tires

	Bucket	I
H. Dumping clearance, max. height and 45° dump angle**		6285 (20'7")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		4605 (15'1")
J. Reach at max. height and 45° dump angle**		2970 (9'9")
Reach with arm horizontal and bucket level		6080 (19'11")
K. Operating height (fully raised)		11865 (38'11")
L. Overall length		18210 (59'9")
Turning radius*		14330 (47'0")
Digging depth	0°	290 (11.4")
	10°	785 (2'7")

Measured with 65/65-57 tires

	Bucket	I
H. Dumping clearance, max. height and 45° dump angle**		6350 (20'10")
Reach at 2130 mm (7') cut edge clearance and 45° dump angle		4540 (14'11")
J. Reach at max. height and 45° dump angle**		2905 (9'6")
Reach with arm horizontal and bucket level		6015 (19'9")
K. Operating height (fully raised)		11930 (39'2")
L. Overall length		18210 (59'9")
Turning radius*		14330 (47'0")
Digging depth	0°	175 (6.9")
	10°	720 (2'4")

* Bucket at carry, outside corner of bucket.

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

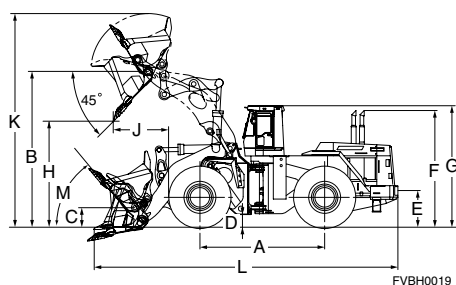
WA1200-3 (with high lift boom)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (spade nose) with tip teeth	18.0 (23.5)	15.0 (19.6)	6400 (21')	23170 (51,080)	126000 (277,780)

* Excluding tire protectors

	Operating weight kg(lb)	Static tipping load kg(lb)	
		Straight	40° full turn
Tires/Buckets	I	I	I
55.5/80-57-68PR (L5)	208300 (459,200)	106800 (235,450)	93500 (206,130)
65/65-57-62PR(L5)	213300 (470,200)	110300 (243,170)	96000 (211,640)

- All dimensions, weights and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, steel cab, ROPS canopy, air conditioner, tip type teeth and operator.
- Machine stability and operating weight are affected by counterweight, or ballast, tire size and other attachments. Use either counterweight or ballast, not both. Apply the following weight changes to operating weight and static tipping load.



FVBH0019

	Unit: mm (ft.in)	
Tread	55/80-57 tires 4300 (14'1")	65/65-57 tires 4300 (14'1")
Width over tires	5710 (18'9")	5970 (18'9")
A Wheelbase	7100 (23'4")	7100 (23'4")
B Hinge pin height, max. height	9480 (31'1")	9545 (31'4")
C Hinge pin height, carry position	1150 (3'9")	1150 (3'9")
D Ground clearance	650 (2'2")	715 (2'4")
E Hitch height	1310 (4'4")	1375 (4'6")
F Overall height, top of the stack	6630 (21'9")	6695 (22')
G Overall height, ROPS and cab	6865 (22'6")	6930 (22'9")
M Tilt back angle	50°	

Measured with 55.5/80-57 tires

	Bucket	I
H. Dumping clearance, max. height and 45° dump angle**		7005 (23'0")
J. Reach at max. height and 45° dump angle**		3045 (10'0")
K. Operating height (fully raised)		12410 (40'9")
L. Overall length		18840 (61'10")
Turning radius*		14700 (48'3")
Digging depth	0°	260 (10.2")
	10°	780 (2'7")

Measured with 65/65-57 tires

	Bucket	I
H. Dumping clearance, max. height and 45° dump angle**		7070 (23'2")
J. Reach at max. height and 45° dump angle**		2980 (9'9")
K. Operating height (fully raised)		12475 (40'11")
L. Overall length		18840 (61'10")
Turning radius*		14700 (48'3")
Digging depth	0°	195 (7.7")
	10°	715 (2'4")

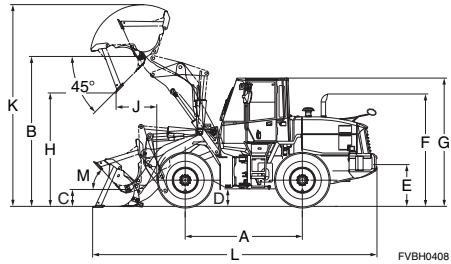
* Bucket at carry, outside corner of bucket.

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA150-6 (for USA)



	15.5-25 tires	17.5-25 tires
Tread	1780 (5'10")	1780 (5'11")
Width over tires	2180 (7'2")	2220 (7'3")
A Wheelbase	2600 (8'6")	2600 (8'6")
B Hinge pin height, max. height	3475 (11'5")	3510 (11'6")
C Hinge pin height, carry position	360 (1'2")	355 (1'2")
D Ground clearance	390 (1'3")	425 (1'5")
E Hitch height	790 (2'7")	825 (2'8")
F Overall height, top of the stack	2485 (8'2")	2520 (8'3")
G Overall height, ROPS cab	3025 (9'11")	3060 (10'0")
H See dumping clearance below		
M Tilt back angle		46°

Measured with 17.5-25-12PR (L2) tires, ROPS/FOPS cab

Bucket Type			Stockpile Bucket With Bolt-on Cutting Edge	Excavating Bucket With Bolt-on Cutting Edge	Light Material Bucket With Bolt-on Cutting Edge
Bucket capacity	Heaped	m ³ (yd ³)	1.5 (2.0)	1.3 (1.7)	1.7 (2.2)
	Struck	m ³ (yd ³)	1.25 (1.6)	1.1 (1.4)	1.5 (2.0)
Bucket width		mm (ft.in)	2390 (7'10")	2390 (7'10")	2390 (7'10")
Bucket weight		kg (lb)	595 (1,310)	580 (1,280)	665 (1,470)
Static tipping load	Straight	kg (lb)	6745 (14,873)	6785 (14,963)	6650 (14,863)
	Full turn (40°)	kg (lb)	5870 (12,939)	5905 (13,014)	5790 (12,769)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2730 (8'11")	2770 (9'1")	2655 (8'9")
Reach at 2130 mm (7') and 45° dump angle**		mm (ft.in)	1360 (4'6")	1340 (4'5")	1395 (4'7")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	945 (3'1")	905 (3'0")	1020 (3'4")
Reach with arm horizontal and bucket level**		mm (ft.in)	2030 (6'8")	1970 (6'5")	2135 (7'0")
K. Operating height (fully raised)		mm (ft.in)	4655 (15'3")	4685 (15'4")	4735 (15'6")
L. Overall length, bucket on ground		mm (ft.in)	6310 (20'8")	6250 (20'6")	6415 (21'1")
Turning radius*		mm (ft.in)	5380 (17'8")	5360 (17'7")	5405 (17'9")
Digging depth	0°	mm (ft.in)	65 (2.5")	65 (2.5")	65 (2.5")
	10°	mm (ft.in)	230 (9.0")	220 (8.6")	245 (9.6")
Breakout force		kN kgf (lb)	72.6 7400 (16,310)	78.6 8010 (17,660)	64.0 6530 (14,400)
Operating weight		kg (lb)	7850 (17,311)	7835 (17,271)	7920 (17,461)

* Bucket at carry, outside corner of bucket.

** At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

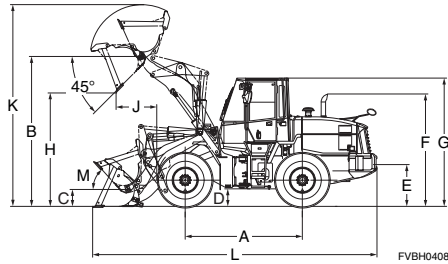
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Change in Width Over Tires		Change in Ground Clearance		Change in Vertical Dimensions		Change in Reach	
	kg	lb	Straight		Full Turn		mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
			kg	lb	kg	lb								
15.5-25-8PR (L2)	-140	-309	-100	-221	-90	-198	2180	7'2"	390	1'3"	-35	-1.4"	15	0.6"
Install ROPS canopy (instead of cab)	-150	-331	-160	-353	-150	-331								
Additional counterweight	+200	+441	+380	+838	+330	+728								

Performance Data Dimensions

WHEEL LOADERS

WA200-6 (for USA)



	Unit: mm (ft.in)	
Tread	17.5-25 tires	20.5-25 tires
Width over tires	1930 (6'4")	1930 (6'4")
A Wheelbase	2375 (7'10")	2470 (8'1")
B Hinge pin height, max. height	2840 (9'4")	2840 (9'4")
C Hinge pin height, carry position	3635 (11'11")	3705 (12'2")
D Ground clearance	410 (1'4")	380 (1'3")
E Hitch height	425 (1'5")	495 (1'8")
F Overall height, top of the stack	870 (2'10")	940 (3'1")
G Overall height, ROPS cab	2725 (8'11")	2795 (9'2")
H See dumping clearance below	3110 (10'2")	3180 (10'5")
M Tilt back angle	48°	

Measured with 20.5-25-12PR (L3) tires, ROPS/FOPS cab

Bucket Type			Stockpile Bucket With Bolt-on Cutting Edge	Excavating Bucket With Bolt-on Cutting Edge	Light Material Bucket With Bolt-on Cutting Edge
Bucket capacity	Heaped	m ³ (yd ³)	2.0 (2.6)	1.7 (2.2)	2.4 (3.1)
	Struck	m ³ (yd ³)	1.7 (2.2)	1.4 (1.8)	2.0 (2.6)
Bucket width		mm (ft.in)	2550 (8'4")	2550 (8'4")	2550 (8'4")
Bucket weight		kg (lb)	785 (1,731)	740 (1,631)	875 (1,929)
Static tipping load	Straight	kg (lb)	9690 (21,363)	9750 (21,495)	9540 (21,032)
	Full turn (40°)	kg (lb)	8345 (18,397)	8405 (18,530)	8195 (18,067)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2830 (9'3")	2885 (9'6")	2725 (8'11")
Reach at 2130 mm (7') and 45° dump angle**		mm (ft.in)	1410 (4'8")	1385 (4'7")	1460 (4'9")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	930 (3'1")	875 (2'10")	1035 (3'5")
Reach with arm horizontal and bucket level**		mm (ft.in)	2145 (7'0")	2065 (6'9")	2295 (7'6")
K. Operating height (fully raised)		mm (ft.in)	4955 (16'3")	4835 (15'10")	5065 (16'7")
L. Overall length, bucket on ground		mm (ft.in)	6895 (22'7")	6815 (22'4")	7050 (23'2")
Turning radius*		mm (ft.in)	5850 (19'2")	5830 (18'5")	5890 (19'4")
Digging depth	0°	mm (ft.in)	65 (2.6")	65 (2.6")	65 (2.6")
	10°	mm (ft.in)	250 (9.8")	235 (9.3")	275 (10.8")
Breakout force		kN kgf (lb)	93.2 9500 (20,944)	102.5 10450 (23,038)	81.4 8300 (18,298)
Operating weight		kg (lb)	10550 (23,259)	10505 (23,160)	10640 (23,457)

* Bucket at carry, outside corner of bucket.

** At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

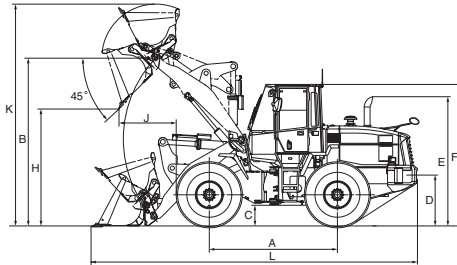
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn					
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in
17.5-25-12PR (L2)	-585	-1,290	-445	-981	-390	-860	-70	-2.8"	70	2.8"
17.5-25-12PR (L3)	-480	-1,058	-365	-805	-320	-705	-70	-2.8"	70	2.8"
20.5-25-12PR (L2)	-185	-331	-140	-309	-120	-265	0	0"	0	0"
Install ROPS canopy (instead of cab)	-150	-331	-150	-331	-130	-287				

Performance Data Dimensions

WHEEL LOADERS

WA200PZ-6 (for USA)



Tread	20.5-25 tires
Width over tires	1930 (6'4")
A Wheelbase	2375 (7'10")
B Hinge pin height, max. height	2840 (9'4")
C Ground clearance	3815 (12'6")
D Hitch height	425 (1'5")
E Overall height, top of the stack	870 (2'10")
F Overall height, ROPS cab	2725 (8'11")

Unit: mm (ft.in)

20.5-25 tires
1930 (6'4")
2375 (7'10")
2840 (9'4")
3815 (12'6")
425 (1'5")
870 (2'10")
2725 (8'11")
3110 (10'2")

Bucket

Measured with 20.5-25-12PR (L2) tires

Bucket Type			Stockpile Bucket With Bolt-on Cutting Edge	
Bucket capacity	Heaped	m ³ (yd ³)	1.9 (2.5)	2.1 (2.75)
	Struck	m ³ (yd ³)	1.6 (2.1)	1.8 (2.3)
Bucket width		mm (ft.in)	2550 (8'4")	2550 (8'4")
Bucket weight		kg (lb)	937 (2,066)	1005 (2,215)
Static tipping load	Straight	kg (lb)	8145 (17,955)	8020 (17,680)
	Full turn (40°)	kg (lb)	7085 (15,620)	6975 (15,375)
H. Dumping clearance, max. height and 45° dump angle*		mm (ft.in)	2815 (9'3")	2760 (9'0")
Reach at 2130 mm (7') and 45° dump angle*		mm (ft.in)	1630 (5'4")	1650 (5'5")
J. Reach at max. height and 45° dump angle*		mm (ft.in)	1075 (3'6")	1130 (3'8")
Reach with arm horizontal and bucket level*		mm (ft.in)	2515 (8'3")	2590 (8'6")
K. Operating height (fully raised)		mm (ft.in)	5145 (16'10")	5230 (17'2")
L. Overall length, bucket on ground		mm (ft.in)	7405 (24'4")	7480 (24'6")
Digging depth	0°	mm (ft.in)	126 (5.0")	110 (4.3")
	10°	mm (ft.in)	347 (13.7")	338 (13.3")
Breakout force		kN	89.8	84.4
		kgf (lb)	9167 (20,210)	8614 (18,990)
Operating weight		kg (lb)	11465 (25,275)	11530 (25,420)

* At the end of B.O.C.

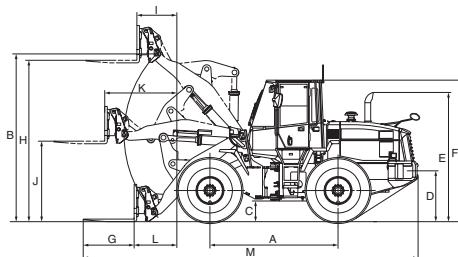
- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Weight Changes

	Change in Operating Weight		Change in Tipping Load				Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn					
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in
17.5-25-16PR (L2)	-325	-716	-215	-474	-185	-408	-70	-2.8"	+75	+3.0"
17.5-25-16PR (L3)	-290	-639	-190	-419	-167	-368	-70	-2.8"	+75	+3.0"
20.5-25-12PR (L3)	+165	+364	+105	+231	+95	+209	0	0"	0	0"
Install ROPS canopy (instead of cab)	-167	-368	-152	-335	-134	-295				

WA200PZ-6 (for USA)

Unit: mm (ft.in)



Tread	20.5-25 tires	1930 (6'4")
Width over tires		2375 (7'10")
A Wheelbase		2840 (9'4")
B Hinge pin height, max. height		3815 (12'6")
C Ground clearance		425 (1'5")
D Hitch height		870 (2'10")
E Overall height, top of the stack		2725 (8'11")
F Overall height, ROPS cab		3110 (10'2")

Fork

Measured with 20.5-25-12PR (L2) tires, ROPS/FOPS cab

G	Fork tine length	mm (in)	1220 (48")
	Fork weight	kg (lb)	683 (1506)
H	Ground to top of tine at maximum lift	mm (ft.in)	3740 (12'3")
I	Reach at maximum height	mm (ft.in)	2030 (6'8")
J	Ground to top of tine - boom and tine level	mm (ft.in)	1750 (5'9")
K	Reach - boom and tine level	mm (ft.in)	2935 (9'7")
L	Reach - tine level on ground	mm (ft.in)	2330 (7'8")
M	Overall length - tine level on ground	mm (ft.in)	7810 (25'7")
	Operating height, fully raised	mm (ft.in)	4980 (16'4")
	Operating load	kg (lb)	2542 (5,605)
	Static tipping load - boom and fork level, 610 mm (24") load center		
	Straight	kg (lb)	5845 (12,885)
	Full turn (40°)		5085 (11,210)
	Operating weight	kg (lb)	11470 (25,285)

Operating load per SAE J1197 (Feb. 1991), 50% of static tipping load.

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator. Machine stability and operating weight affected by tire size and attachments.

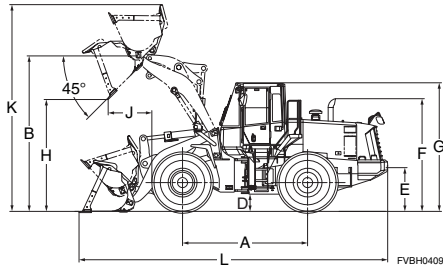
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn					
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in
17.5-25-16PR (L2)	-325	-716	-215	-474	-185	-408	-70	-2.8"	+75	+3.0"
17.5-25-16PR (L3)	-290	-639	-190	-419	-167	-368	-70	-2.8"	+75	+3.0"
20.5-25-12PR (L3)	+165	+364	+105	+231	+95	+209	0	0"	0	0"
Install ROPS canopy (instead of cab)	-167	-368	-152	-335	-134	-295				

Performance Data Dimensions

WHEEL LOADERS

WA250-6 (for USA)



	Unit: mm (ft.in)	
Tread	17.5-25 tires	20.5-25 tires
Width over tires	1930 (6'4")	1930 (6'4")
A Wheelbase	2375 (7'10")	2470 (8'1")
B Hinge pin height, max. height	2900 (9'6")	2900 (9'6")
C Hinge pin height, carry position	3725 (12'3")	3795 (12'5")
D Ground clearance	375 (1'3")	450 (1'6")
E Hitch height	395 (1'4")	465 (1'6")
F Overall height, top of the stack	880 (2'11")	950 (3'1")
G Overall height, ROPS cab	2855 (9'4")	2925 (9'7")
H See dumping clearance below	3130 (10'3")	3200 (10'6")
M Tilt back angle		50°

Measured with 20.5-25-12PR (L2) tires, ROPS/FOPS cab

Bucket Type			Stockpile Bucket With Bolt-on Cutting Edge	Excavating Bucket With Bolt-on Cutting Edge	Light Material Bucket With Bolt-on Cutting Edge
Bucket capacity	Heaped	m ³ (yd ³)	2.3 (3.0)	1.9 (2.5)	2.7 (3.5)
	Struck	m ³ (yd ³)	2.0 (2.6)	1.6 (2.1)	2.3 (3.0)
Bucket width		mm (ft.in)	2685 (8'10")	2685 (8'10")	2685 (8'10")
Bucket weight		kg (lb)	960 (2,116)	905 (1,995)	1050 (2,315)
Static tipping load	Straight	kg (lb)	11960 (26,367)	12080 (26,632)	11805 (26,026)
	Full turn (40°)	kg (lb)	10525 (23,204)	10630 (23,435)	10385 (22,895)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2850 (9'4")	2925 (9'7")	2755 (9'0")
Reach at 2130 mm (7') and 45° dump angle**		mm (ft.in)	1495 (4'11")	1455 (4'9")	1540 (5'1")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	985 (3'3")	910 (3'0")	1080 (3'7")
Reach with arm horizontal and bucket level**		mm (ft.in)	2235 (7'4")	2130 (7'0")	2360 (7'9")
K. Operating height (fully raised)		mm (ft.in)	5065 (16'7")	4945 (16'3")	5200 (17'1")
L. Overall length, bucket on ground		mm (ft.in)	7055 (23'2")	6015 (19'9")	7185 (23'7")
Turning radius*		mm (ft.in)	6030 (19'9")	5780 (19'0")	6110 (20'1")
Digging depth	0°	mm (ft.in)	75 (3.0")	75 (3.0")	75 (3.0")
	10°	mm (ft.in)	265 (10.4")	245 (9.7")	285 (11.2")
Breakout force		kN kgf (lb)	121 12340 (27,210)	136 13850 (30,535)	108 11000 (24,250)
Operating weight		kg (lb)	11545 (25,448)	11540 (25,441)	11685 (25,761)

* Bucket at carry, outside corner of bucket.

** At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

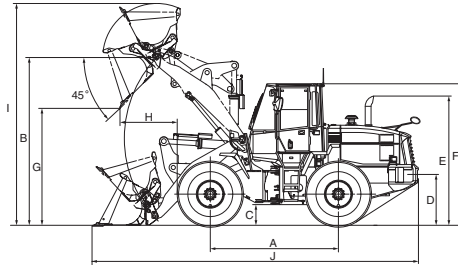
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Change in Vertical Dimensions		Change in Reach	
	kg	lb	Straight		Full Turn		mm	ft.in	mm	ft.in
			kg	lb	kg	lb				
17.5-25-16PR (L2)	-280	-617	-215	-474	-190	-419	-70	-2.8"	70	2.8"
17.5-25-16PR (L3)	-225	-496	-170	-375	-155	-342	-70	-2.8"	70	2.8"
20.5-25-12PR (L3)	+150	+331	+110	+243	+90	+198	0	0"	0	0"
Install ROPS canopy (instead of cab)	-150	-331	-150	-331	-130	-287				

Performance Data Dimensions

WHEEL LOADERS

WA250PZ-6 (for USA)



	Unit: mm (ft.in)	
Standard tire	17.5/25-12PR (L2)	20.5/25-12PR (L2)
Tread	1930 (6'4")	1930 (6'4")
Width over tires	2375 (7'10")	2464 (8'1")
A Wheelbase	2900 (9'6")	2900 (9'6")
B Hinge pin height, max. height	3895 (12'9")	3861 (12'8")
C Ground clearance	395 (1'4")	465 (1'6")
D Hitch height	880 (2'11")	965 (3'2")
E Overall height, top of the stack	2855 (9'4")	3124 (10'3")
F Overall height, ROPS cab	3130 (10'3")	3251 (10'8")

Bucket

Measured with 20.5-25-12PR (L2) tires

Bucket Type			Stockpile Bucket With Bolt-on Cutting Edge	
Bucket capacity	Heaped	m ³ (yd ³)	1.9 (2.5)	2.3 (3.0)
	Struck	m ³ (yd ³)	1.6 (2.1)	2.0 (2.6)
Bucket width		mm (ft.in)	2685 (8'10")	2692 (8'10")
Bucket weight		kg (lb)	1015 (2,236)	1092 (2,408)
Static tipping load	Straight	kg (lb)	9420 (20,767)	8925 (19,676)
	Full turn (40°)	kg (lb)	8195 (18,067)	7765 (17,119)
H. Dumping clearance, max. height and 45° dump angle*		mm (ft.in)	2935 (9'8")	2861 (9'5")
Reach at 2130 mm (7') and 45° dump angle*		mm (ft.in)	1637 (5'4")	1672 (5'6")
J. Reach at max. height and 45° dump angle*		mm (ft.in)	1015 (3'4")	1088 (3'7")
Reach with arm horizontal and bucket level*		mm (ft.in)	2448 (8'0")	2552 (8'4")
K. Operating height (fully raised)		mm (ft.in)	5255 (17'3")	5358 (17'7")
L. Overall length, bucket on ground		mm (ft.in)	7233 (23'9")	7337 (24'1")
Digging depth	0°	mm (ft.in)	110 (4.3")	110 (4.3")
	10°	mm (ft.in)	320 (12.6")	338 (13'3")
Breakout force		kN kgf (lb)	118 12015 (26,490)	108 11000 (24,250)
Operating weight		kg (lb)	12520 (27,601)	12600 (27,778)

* At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

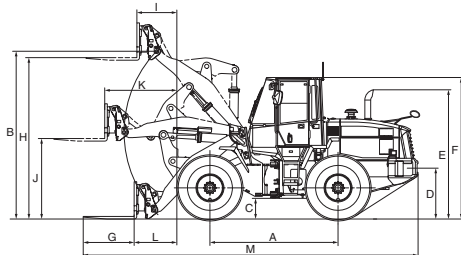
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn		mm	ft.in	mm	ft.in
	kg	lb	kg	lb	kg	lb				
17.5-25-16PR (L2)	-300	-661	-200	-441	-170	-375	-70	-2.8"	+70	+2.8"
17.5-25-16PR (L3)	-260	-573	-170	-375	-150	-331	-70	-2.8"	+70	+2.8"
20.5-25-12PR (L3)	+165	+364	+110	+243	+95	+209	0	0"	0	0"
Install ROPS canopy (instead of cab)	-165	-364	-145	-320	-125	-276				

Performance Data Dimensions

WHEEL LOADERS

WA250PZ-6 (for USA)



	Unit: mm (ft.in)	
Standard tire	17.5/25-12PR (L2)	20.5/25-12PR (L2)
Tread	1930 (6'4")	1930 (6'4")
Width over tires	2375 (7'10")	2464 (8'1")
A Wheelbase	2900 (9'6")	2900 (9'6")
B Hinge pin height, max. height	3895 (12'9")	3861 (12'8")
C Ground clearance	395 (1'4")	465 (1'6")
D Hitch height	880 (2'11")	965 (3'2")
E Overall height, top of the stack	2855 (9'4")	3124 (10'3")
F Overall height, ROPS cab	3130 (10'3")	3251 (10'8")

Fork

Measured with 20.5-25-12PR (L2) tires, ROPS/FOPS cab

G	Fork tine length	mm (in)	1524 (60")
	Fork weight	kg (lb)	683 (1,506)
H	Ground to top of tine at maximum lift	mm (ft.in)	3820 (12'6")
I	Reach at maximum height	mm (ft.in)	2324 (7'7")
J	Ground to top of tine - boom and tine level	mm (ft.in)	1817 (6'0")
K	Reach - boom and tine level	mm (ft.in)	3233 (10'7")
L	Reach - tine level on ground	mm (ft.in)	2573 (8'5")
M	Overall length - tine level on ground	mm (ft.in)	8034 (26'4")
	Static tipping load - boom and fork level, 610 mm (24") load center		
	Straight	kg (lb)	6630 (14,616)
	Full turn (40°)		
	Operating height, fully raised	mm (ft.in)	5255 (17'3")
	Operating load	kg (lb)	2885 (6,360)
	Operating weight	kg (lb)	12160 (26,808)

Operating load per SAE J1197 (Feb. 1991), 50% of static tipping load.

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator. Machine stability and operating weight affected by tire size and attachments.

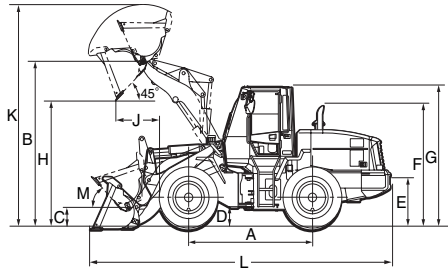
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn					
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in
17.5-25-16PR (L2)	-300	-661	-140	-309	-170	-375	-70	-2.8"	+70	+2.8"
17.5-25-16PR (L3)	-260	-573	-125	-276	-150	-331	-70	-2.8"	+70	+2.8"
20.5-25-12PR (L3)	+165	+364	+80	+176	+95	+209	0	0"	0	0"
Install ROPS canopy (instead of cab)	-165	-364	-105	-231	-125	-276				

Performance Data Dimensions

WHEEL LOADERS

WA320-6 (USA source)



		Unit: mm (ft.in)
Tread		2050 (6'9")
Width over tires		2585 (8'6")
A Wheelbase		3030 (9'11")
B Hinge pin height, max. height		3905 (12'10")/4545 (14'10")***
C Hinge pin height, carry position		480 (1'7")/645 (2'1")***
D Ground clearance		425 (1'5")
E Hitch height		1095 (3'7")
F Overall height, top of the stack		2975 (9'9")
G Overall height, ROPS cab		3200 (10'6")
H See dumping clearance below		
M Tilt back angle		47°

Measured with 20.5-25-12PR (L2) tires

Bucket Type			Stockpile Bucket With Bolt-on Cutting Edge	Excavating Bucket With Bolt-on Cutting Edge	Light Material Bucket With Bolt-on Cutting Edge	Boom High Lift Stockpile Bucket
Bucket capacity	Heaped	m ³ (yd ³)	2.8 (3.7)	2.3 (3.0)	3.2 (4.2)	2.3 (3.0)
	Struck	m ³ (yd ³)	2.4 (3.1)	2.0 (2.6)	2.8 (3.7)	2.0 (2.6)
Bucket width		mm (ft.in)	2740 (9'0")	2740 (9'0")	2685 (8'10")	2740 (9'0")
Bucket weight		kg (lb)	1230 (2,712)	1195 (2,634)	1410 (3,110)	1195 (2,634)
Static tipping load	Straight	kg (lb)	12535 (27,635)	12750 (28,110)	12610 (27,800)	9520 (20,090)
	Full turn (40°)	kg (lb)	11140 (24,560)	11360 (25,045)	11215 (24,725)	8460 (18,650)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2850 (9'4")	2955 (9'8")	2715 (8'11")	3595 (11'10")
Reach at 2130 mm (7') and 45° dump angle		mm (ft.in)	1580 (5'2")	1530 (5'0")	1640 (5'5")	2080 (6'10")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1035 (3'5")	930 (3'1")	1170 (3'10")	950 (3'1")
Reach with arm horizontal and bucket level		mm (ft.in)	2420 (7'11")	2275 (7'6")	2610 (8'7")	2785 (9'2")
K. Operating height (fully raised)		mm (ft.in)	5325 (17'6")	5135 (16'10")	5405 (17'9")	5775 (18'11")
L. Overall length, bucket on ground		mm (ft.in)	7415 (24'8")	7370 (24'2")	7705 (25'3")	8005 (26'3")
Turning radius*		mm (ft.in)	6260 (20'6")	6220 (20'5")	6290 (20'8")	6330 (20'9")
Digging depth	0°	mm (ft.in)	85 (3.3")	85 (3.3")	85 (3.3")	131 (5.2")
	10°	mm (ft.in)	296 (11.6")	275 (11")	320 (1'1")	316 (1'1")
Breakout force		kN	129	148	111	133
		kgf (lb)	13180 (29,060)	15140 (33,380)	11280 (24,870)	13000 (29,980)
Operating weight		kg (lb)	14370 (31,680)	14330 (31,590)	14545 (32,070)	14550 (32,080)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

*** High lift boom

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, additional counterweight and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

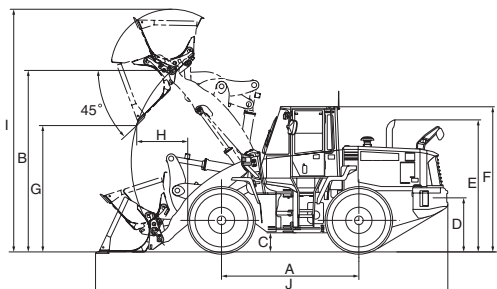
Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
20.5-25-12PR (L2)	-210	-463	-165	-364	-165	-364	2585	8'6"	425	1'5"	0	0
Install ROPS canopy (instead of cab)	-150	-331	-150	-331	-140	-309						

Performance Data Dimensions

WHEEL LOADERS

WA320PZ-6 (for USA)



Unit: mm (ft.in)

Tread	2050 (6'9")
Width over tires	2590 (8'6")
A Wheelbase	3030 (9'11")
B Hinge pin height, max. height	4005 (13'2")
C Hinge pin height, carry position	440 (1'5")
D Ground clearance	425 (1'5")
E Hitch height	1095 (3'7")
F Overall height, top of the stack	2915 (9'7")
G Overall height, ROPS cab	3200 (10'6")
H See dumping clearance below	

Bucket

Measured with 20.5-25-12PR (L2) tires

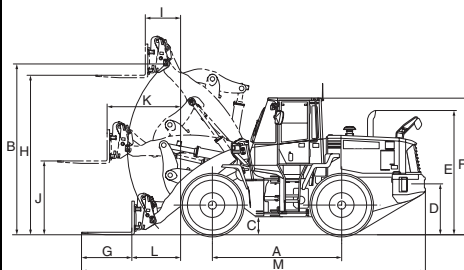
Bucket Type			Light Material Bucket W/B.O.C	Bucket General Purpose W/B.O.C
Bucket capacity	Heaped	m ³ (yd ³)	2.7 (3.5)	2.5 (3.25)
	Struck	m ³ (yd ³)	2.2 (2.9)	2.1 (2.75)
Bucket width		mm (ft.in)	2740 (9'0")	2740 (9'0")
Bucket weight		kg (lb)	1260 (2,780)	1230 (2,712)
Static tipping load	Straight	kg (lb)	10880 (23,990)	10990 (24,228)
	Full turn (40°)	kg (lb)	9580 (21,110)	9670 (21,320)
H. Dumping clearance, max. height and 45° dump angle*		mm (ft.in)	2785 (9'2")	2820 (9'3")
Reach at 2130 mm (7') and 45° dump angle*		mm (ft.in)	1770 (5'10")	1755 (5'9")
J. Reach at max. height and 45° dump angle*		mm (ft.in)	1240 (4'1")	1200 (3'11")
Reach with boom and bucket level*		mm (ft.in)	2735 (9'0")	2680 (8'10")
K. Operating height (fully raised)		mm (ft.in)	5395 (17'8")	5355 (17'7")
L. Overall length, bucket on ground		mm (ft.in)	7800 (25'7")	7750 (25'5")
Digging depth	0°	mm (ft.in)	65 (2.5")	65 (2.5")
	10°	mm (ft.in)	440 (1'5")	385 (1'3")
Breakout force		kN/kgf (lb)	136/13900 (30,620)	142/14430 (31,810)
Operating weight		kg (lb)	15380 (33,900)	15350 (33,830)

* At the end of B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Fork

Static tipping load - boom level Fork level, 610 mm (24") load center	Straight	kg (lb)	11170 (24,630)
	Full turn (40°)	kg (lb)	9610 (21,180)
	Operating weight	kg (lb)	14730 (32,480)
G Fork tine length		mm (ft.in)	1524 (5'0")
H Ground to top of tine at maximum lift		mm (ft.in)	3860 (12'8")
I Reach at maximum lift		mm (ft.in)	840 (2'9")
J Ground to top of Tine - boom and tine level		mm (ft.in)	1855 (6'1")
K Reach - boom and tine level		mm (ft.in)	1735 (5'8")
L Reach - tine level on ground		mm (ft.in)	1065 (3'6")
M Overall Length - tine level on ground		mm (ft.in)	8320 (27'3")
Operating load		kg (lb)	4805 (10,590)



Operating load per SAE J1197 (Feb. 1991), 50% of static tipping load.

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator. Machine stability and operating weight affected by tire size and attachments.

Weight Changes

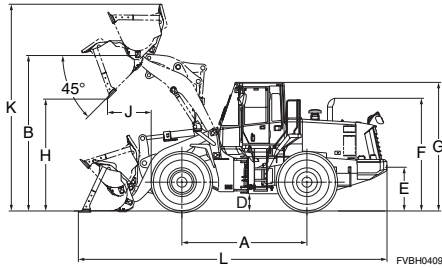
	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions		Change in Reach	
	kg	lb	Straight		Full Turn		mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
			kg	lb	kg	lb								
20.5-25-12PR (L3)	+165	+364	+105	+231	+95	+209	2590	8'6"	425	1'5"	0	0"	0	0"

Performance Data Dimensions

WHEEL LOADERS

WA380-6 (USA source)

Unit: mm (ft.in)



Tread	2160 (7'1")
Width over tires	2780 (9'1")
A Wheelbase	3300 (10'10")
B Hinge pin height, max. height	
Standard boom	4095 (13'5")
High lift boom	4625 (15'2")
C Hinge pin height, carry position	
Standard boom	520 (1'8")
High lift boom	685 (2'3")
D Ground clearance	460 (1'6")
E Hitch height	1150 (3'9")
F Overall height, top of the stack	2950 (9'8")
G Overall height, ROPS cab	3380 (11'1")
M Tilt back angle	52°

Measured with 20.5-25-12PR (L2) tires

Bucket Type			General Purpose Bolt-on Cutting Edge	Excavating Bolt-on Cutting Edge	Light Material Bolt-on Cutting Edge
Bucket capacity	Heaped	m ³ (yd ³)	3.3 (4.3)	2.9 (3.8)	4.0 (5.2)
	Struck	m ³ (yd ³)	2.9 (3.8)	2.4 (3.1)	3.4 (4.4)
Bucket width		mm (ft.in)	2905 (9'6")	2905 (9'6")	2905 (9'6")
Bucket weight		kg (lb)	1620 (3,570)	1720 (3,790)	1835 (4,045)
Static tipping load	Straight	kg (lb)	14560 (32,100)	14460 (31,880)	14330 (31,590)
	Full turn (40°)	kg (lb)	12610 (27,800)	12505 (27,570)	12375 (27,280)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2950 (9'8")	3045 (10'0")	2855 (9'4")
Reach at 2130 mm (7') and 45° dump angle		mm (ft.in)	1150 (3'9")	1055 (3'6")	1240 (4'1")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1735 (5'3")	1680 (5'6")	1780 (5'10")
Reach with arm horizontal and bucket level		mm (ft.in)	2590 (8'6")	2450 (8'0")	2715 (8'11")
K. Operating height (fully raised)		mm (ft.in)	5600 (18'5")	5470 (17'11")	5720 (18'9")
L. Overall length, bucket on ground		mm (ft.in)	8140 (26'8")	8000 (26'3")	8265 (27'1")
Turning radius*		mm (ft.in)	7220 (23'8")	7185 (23'7")	7250 (23'9")
Digging depth	0°	mm (ft.in)	60 (2.4")	60 (2.4")	60 (2.4")
	10°	mm (ft.in)	290 (11.4")	265 (10.4")	315 (15'4")
Breakout force		kN	158	177	144
		kgf (lb)	16100 (35,495)	18000 (39,680)	14700 (32,405)
Operating weight		kg (lb)	17580 (38,760)	17960 (39,000)	17810 (39,620)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, additional counterweight and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

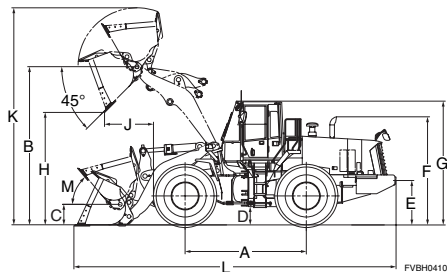
Weight Changes

Tires	Operating Weight		Tipping Load Straight		Tipping Load Full Turn		Width over tires		Ground clearance		Change in vertical dimensions	
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
20.5-25-16PR (L3)	-1080	-2,380	-740	-1,630	-650	-1,430	2695	8'10"	390	1'3"	-65	-3"
23.5-25-16PR (L3)	0	0	0	0	0	0	2780	9'1"	455	1'6"	0	0
Additional counterweight	+340	+750	+900	+1,985	+755	+1,655						

Performance Data Dimensions

WHEEL LOADERS

WA430-6 (USA source)



	Unit: mm (ft.in)
Tread	2200 (7'3")
Width over tires	2820 (9'3")
A Wheelbase	3300 (10'10")
B Hinge pin height, max. height	4165 (13'8")
C Hinge pin height, carry position	520 (1'8")
D Ground clearance	455 (1'6")
E Hitch height	1150 (3'9")
F Overall height, top of the stack	2940 (9'8")
G Overall height, ROPS cab	3390 (11'1")
M Tilt back angle	46°

Measured with 23.5 R25 (L3) tires, ROPS/FOPS cab

Bucket Type			General Purpose	Excavating	Light Material
			Bolt-on Cutting Edge	Bolt-on Cutting Edge	Bolt-on Cutting Edge
Bucket capacity	Heaped	m ³ (yd ³)	3.5 (4.6)	3.1 (4.1)	4.3 (5.6)
	Struck	m ³ (yd ³)	3.0 (3.9)	2.6 (3.4)	3.7 (4.8)
Bucket width		mm (ft.in)	2905 (9'6")	2905 (9'6")	2905 (9'6")
Bucket weight		kg (lb)	1630 (3,593)	1720 (3,792)	1800 (3,968)
Static tipping load	Straight	kg (lb)	14960 (32,981)	14915 (32,882)	14710 (32,430)
	Full turn (40°)	kg (lb)	13785 (30,390)	13770 (30,358)	13615 (30,016)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3015 (9'11")	3090 (10'2")	2890 (9'6")
Reach at 2130 mm (7') and 45° dump angle		mm (ft.in)	1840 (6'0")	1795 (5'11")	1900 (6'3")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1195 (3'11")	1120 (3'8")	1320 (4'4")
Reach with arm horizontal and bucket level		mm (ft.in)	2690 (8'10")	2580 (8'6")	2865 (9'5")
K. Operating height (fully raised)		mm (ft.in)	5710 (18'9")	5590 (18'4")	5895 (19'4")
L. Overall length, bucket on ground		mm (ft.in)	8460 (27'9")	8350 (27'5")	8640 (28'4")
Turning radius*		mm (ft.in)	7270 (23'10")	7230 (23'9")	7310 (24'0")
Digging depth	0°	mm (ft.in)	120 (4.7")	120 (4.7")	120 (4.7")
	10°	mm (ft.in)	350 (1'2")	330 (1'1")	380 (1'3")
Breakout force		kN kgf (lb)	179 18300 (40,333)	196 19980 (44,048)	158 16135 (35,572)
Operating weight		kg (lb)	18530 (40,852)	18620 (41,050)	18700 (41,226)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, additional counterweight and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Weight Changes

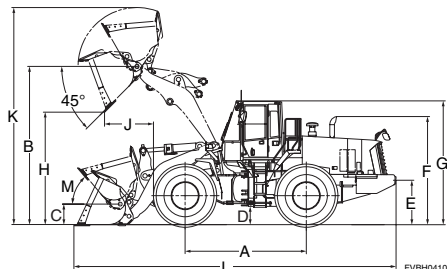
	Operating Weight		Tipping Load Straight		Tipping Load Full Turn	
	kg	lb	kg	lb	kg	lb
Remove additional counterweight	-340	-750	-860	-1,900	-720	-1,590

Performance Data Dimensions

WHEEL LOADERS

WA470-6 (USA source)

Unit: mm (ft.in)



Tread		2300 (7'7")
Width over tires		3010 (9'11")
A Wheelbase		3450 (11'4")
B Hinge pin height, max. height	STD boom	4360 (14'4")
	High lift boom	4870 (16'0")
C Hinge pin height, carry position	STD boom	585 (1'11")
	High lift boom	715 (2'4")
D Ground clearance		525 (1'9")
E Hitch height		1240 (4'1")
F Overall height, top of the stack		3080 (10'2")
G Overall height, ROPS canopy		3500 (11'6")
M Tilt back angle		50°

Measured with 26.5 R25 (L3) tires

Bucket Type			Standard Boom				High Lift Boom
			General Purpose Buckets		Loose Material Bucket	Light Material Bucket	General Purpose Bucket
			Stockpile	Excavating			
			Bolt-on Cutting Edge	Bolt-on Cutting Edge	Bolt-on Cutting Edge	Bolt-on Cutting Edge	Bolt-on Cutting Edge
Bucket Capacity	Heaped	m ³ (yd ³)	4.2 (5.5)	3.8 (5.0)	4.4 (5.8)	4.5 (6.8)	3.8 (5.0)
	Struck	m ³ (yd ³)	3.5 (4.6)	3.2 (4.2)	3.9 (5.1)	4.5 (5.9)	3.2 (4.2)
Bucket Width		mm (ft.in)	3170 (10'5")	3170 (10'5")	3170 (10'5")	3170 (10'5")	3170 (10'5")
Bucket Weight		kg (lb)	2050 (4,519)	2150 (4,740)	2110 (4,652)	2185 (4,817)	2150 (4,740)
Static Tipping Load	Straight	kg (lb)	19475 (42,935)	19385 (42,735)	19420 (42,815)	19355 (42,670)	16425 (36,210)
	Full turn (40°)	kg (lb)	16750 (36,930)	16670 (36,750)	16700 (36,820)	16645 (36,695)	14125 (31,140)
H. Dumping clearance, max. height and 45° dump angle*		mm (ft.in)	3185 (10'6")	3235 (10'7")	3055 (10'0")	3035 (9'11")	3750 (12'4")
Reach at 2130 mm (7') and 45° dump angle		mm (ft.in)	1980 (6'6")	1950 (6'5")	2050 (6'9")	2060 (6'9")	2410 (7'4")
J. Reach at max. height and 45° dump angle**		mm (ft.in)	1235 (4'1")	1185 (3'11")	1365 (4'6")	1385 (4'7")	1330 (4'4")
Reach with arm horizontal bucket level		mm (ft.in)	2750 (9'0")	2680 (8'10")	2935 (9'8")	2960 (9'9")	2960 (9'9")
K. Operating Height (fully raised)		mm (ft.in)	5960 (19'7")	5875 (19'4")	5960 (19'7")	6185 (20'4")	6415 (21'1")
L. Overall Length	Bucket at carry	mm (ft.in)	9000 (29'6")	8930 (29'4")	9185 (30'2")	9210 (30'3")	9560 (31'4")
	Turning Radius*	mm (ft.in)	7640 (25'1")	7630 (25'0")	7695 (25'3")	7700 (25'3")	7890 (25'11")
Digging Depth	0°	mm (ft.in)	80 (3.2")	80 (3.2")	80 (3.2")	80 (3.2")	215 (8.5")
	10°	mm (ft.in)	315 (1'0")	305 (1'0")	345 (1'2")	350 (1'2")	440 (1'5")
Breakout Force		kN	192	203	168	165	186
		kgf (lb)	19600 (43,160)	20710 (45,660)	17140 (37,790)	16840 (37,130)	19018 (41,927)
Operating Weight		kg	23520	23620	23580	23655	24720
		(lb)	(51,850)	(52,075)	(51,985)	(52,150)	(54,500)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, additional counterweight and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Weight Changes

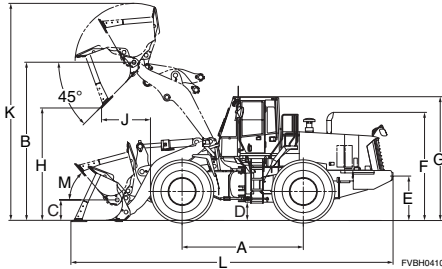
Tires	Operating Weight		Tipping Load Straight		Tipping Load Full Turn	
	kg	lb	kg	lb	kg	lb
Remove additional counterweight	-400	-880	-1,070	-2,358	-930	-2,050

Performance Data Dimensions

WHEEL LOADERS

WA480-6 (USA source)

Unit: mm (ft.in)



Tread	2300 (7'7")
Width over tires	3010 (9'11")
A Wheelbase	3450 (11'4")
B Hinge pin height, max. height	4505 (14'9")
C Hinge pin height, carry position	585 (1'11")
D Ground clearance	525 (1'9")
E Hitch height	1240 (4'1")
F Overall height, top of the stack	3080 (10'1")
G Overall height, ROPS cab	3500 (11'6")
M Tilt back angle	52°

Measured with 26.5 R25 (L3) tires

Bucket Type			General Purpose Buckets		Loose Material Bucket	Light Material Bucket
			Stockpile	Excavating		
			Bolt-on Cutting Edge	Bolt-on Cutting Edge	Bolt-on Cutting Edge	Bolt-on Cutting Edge
Bucket Capacity	Heaped	m ³ (yd ³)	4.6 (6.0)	4.1 (5.4)	4.9 (6.4)	6.1 (8.0)
	Struck	m ³ (yd ³)	4.0 (5.2)	3.5 (4.6)	4.2 (5.5)	5.2 (6.8)
Bucket Width		mm (ft.in)	3170 (10'5")	3170 (10'5")	3170 (10'5")	3170 (10'5")
Bucket Weight		kg (lb)	2260 (4,982)	2220 (4,894)	2340 (5,159)	2410 (5,313)
Static Tipping Load	Straight	kg (lb)	20925 (46,130)	20955 (46,200)	20855 (45,975)	20795 (45,845)
	Full turn (40°)	kg (lb)	17995 (39,670)	18020 (39,725)	17935 (39,540)	17885 (39,430)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3205 (10'6")	3295 (10'10")	3125 (10'3")	3080 (10'1")
Reach at 2130 mm (7') cutting edge clearance and 45° dump angle		mm (ft.in)	2135 (7'0")	2080 (6'10")	2180 (7'2")	2205 (7'3")
J. Reach at max. height and 45° dump angle		mm (ft.in)	1410 (4'8")	1320 (4'4")	1490 (4'11")	1535 (5'0")
Reach with arm horizontal and bucket level		mm (ft.in)	3020 (9'11")	2895 (9'6")	3135 (10'3")	3195 (10'6")
K. Operating Height (fully raised)		mm (ft.in)	6175 (20'3")	6025 (19'9")	6175 (20'3")	6450 (21'2")
L. Overall Length	Bucket on ground	mm (ft.in)	9345 (30'8")	9180 (30'1")	9425 (30'11")	9520 (31'3")
Turning Radius*		mm (ft.in)	7700 (25'3")	7655 (25'1")	7720 (25'4")	7745 (25'5")
Digging Depth	0°	mm (ft.in)	90 (3.5")	90 (3.5")	90 (3.5")	90 (3.5")
	10°	mm (ft.in)	355 (1'2")	335 (1'1")	375 (1'3")	385 (1'3")
Breakout Force		kN	212	231	196	189
		kgf (lb)	21600 (47,660)	23600 (51,930)	20000 (44,060)	19300 (42,490)
Operating Weight		kg (lb)	25405 (56,010)	25365 (55,920)	25485 (56,185)	25555 (56,340)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

- All dimensions, weights, and performance values based on SAE J732c and J742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, additional counterweight and operator.
- Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Weight Changes

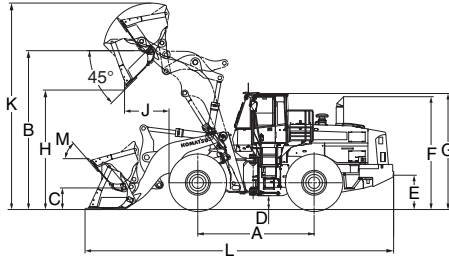
	Operating Weight		Tipping Load Straight		Tipping Load Full Turn	
	kg	lb	kg	lb	kg	lb
Remove additional counterweight	-400	-880	-980	-2,160	-850	-1,873

Performance Data Dimensions

WHEEL LOADERS

WA500-6 (USA source)

Unit: mm (ft.in)



Tread	2400 (7'10")
Width over tires	3190 (10'6")
A Wheelbase	3780 (12'5")
B Hinge pin height, max. height	4755 (15'7")
C Hinge pin height, carry position	575 (1'11")
D Ground clearance	450 (1'5")
E Hitch height	1115 (3'8")
F Overall height, top of the stack	3665 (12'0")
G Overall height, ROPS cab	3785 (12'5")
M Tilt back angle	50°

29.5-25-22/PR(L3)

Measured with 29.5-25-22PR (L3) tires

Bucket Type			Standard Boom			High Lift Boom
			General Purpose Bucket	Excavating Bucket	Loose Material Bucket	Excavating Bucket
			Straight Edge Bolt-on Cutting Edge	Straight Edge Bolt-on Cutting Edge	Straight Edge Bolt-on Cutting Edge	Straight Edge Bolt-on Cutting Edge
Bucket Capacity	SAE Rated	m ³ (cu.yd)	5.6 (7.3)	5.2 (6.8)	6.3 (8.2)	4.5 (5.9)
	Struck	m ³ (cu.yd)	4.8 (6.3)	4.2 (5.5)	5.3 (6.9)	3.7 (4.8)
Bucket Width		mm (ft.in)	3400 (11'2")	3400 (11'2")	3400 (11'2")	3400 (11'2")
Bucket Weight		kg (lb)	3110 (6,885)	3395 (7,485)	3475 (7,660)	2795 (6,160)
Static Tipping Load	Straight	kg (lb)	23600 (52,030)	23750 (52,360)	23100 (50,295)	21705 (47,850)
	Full turn (40°)	kg (lb)	20500 (45,195)	20600 (45,415)	20080 (44,270)	18855 (41,570)
H. Dumping clearance, max. height and 45° dump angle*		mm (ft.in)	3295 (10'10")	3395 (11'2")	3210 (10'6")	3890 (12'9")
Reach at 2130 mm (7') cutting edge clearance and 45° dump angle		mm (ft.in)	2300 (7'7")	2215 (7'3")	2350 (7'8")	2585 (8'6")
J. Reach at max. height and 45° dump angle*		mm (ft.in)	1500 (4'11")	1400 (4'7")	1585 (5'2")	1435 (4'8")
K. Operating Height (fully raised)		mm (ft.in)	6430 (21'1")	6415 (21'1")	6540 (21'5")	6715 (22'0")
L. Overall Length		mm (ft.in)	9815 (32'2")	9670 (31'9")	9935 (32'7")	10030 (32'11")
Turning Radius (bucket at carry, outside corner of bucket)		mm (ft.in)	7650 (25'1")	7610 (25'0")	7710 (25'3")	7805 (25'7")
Digging Depth	0°	mm (ft.in)	135 (5")	135 (5")	135 (5")	210 (8")
	10°	mm (ft.in)	435 (1'5")	410 (1'4")	455 (1'6")	470 (1'7")
Breakout Force		kN	245	268	227	286
		kgf (lb)	25000 (55,115)	27300 (60,185)	23200 (51,150)	29140 (64,245)
Operating Weight**		kg (lb)	32550 (71,760)	32470 (71,585)	33020 (72,795)	33570 (74,010)

• Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers. SAE standard J-732 and J-742b.

• Static tipping load and operating weight shown include lubricants, coolant, full fuel tank, ROPS cab, front fenders, optional counterweight, 29.5-25-22PR (L3) tubeless tires and operator.

• Machine stability and operating weight are affected by counterweight, tire size and other attachments.

Do not use tire ballast with optional counterweight.

• B.O.C. = Bolt on Cutting Edge

* At the end of tooth or B.O.C.

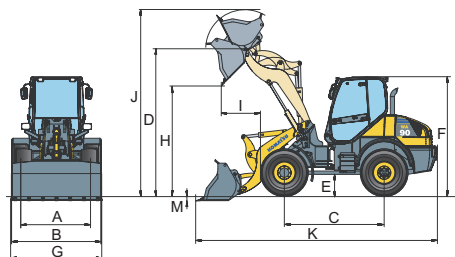
Weight Changes

	Operating Weight		Tipping Load Straight Standard Boom		Tipping Load Full Turn Standard Boom		Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
Tires: 26.5-25-22PR (L3)	-160	-353	-104	-229	-59	-130	3,190	10'6"	450	1'6"	0	0
Install additional counterweight	+900	+1,985	+1,865	+4,110	+1,645	+3,625						
Emergency steering	+70	+155	+65	+145	+55	+120						
Lock-up clutch torque converter	+45	+100	+60	+130	+50	+110						

Performance Data Dimensions

WHEEL LOADERS

WA65-6 (Germany source)



	Unit: mm (ft.in)
A Tread	1306 (4'3")
B Width over tires	1625 (5'4")
C Wheelbase	2050 (6'9")
D Hinge pin height, max. height	3115 (10'3")
E Ground clearance	280 (11")
F Overall height, ROPS cab	2450 (8'10")
Turning radius at corner of tire	3680 (12'1")

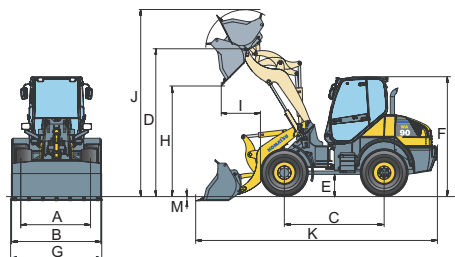
Measured with 12.0-18 tires

Bucket Type			Universal		Light material	4-in-1
			With teeth	Without teeth	Without teeth	With teeth
Bucket Capacity	Heaped	m ³ (yd ³)	0.70 (0.92)	0.70 (0.92)	1.0 (1.31)	0.55 (0.72)
	Struck	m ³ (yd ³)	—	—	—	—
G Bucket Width		mm (ft.in)	1660 (5'5")	1660 (5'5")	1870 (6'2")	1700 (5'7")
Bucket Weight without teeth		kg (lb)	258 (569)	240 (530)	300 (660)	490 (1,080)
Static Tipping Load	Straight	kg (lb)	3650 (8,050)	3770 (8,310)	3630 (8,000)	3500 (7,720)
	Full turn (40°)	kg (lb)	3200 (7,055)	3280 (7,230)	3150 (8,940)	3000 (6,610)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2430 (8'0")	2450 (8'0")	2310 (7'7")	2395 (7'10")
Reach at 2130 mm (7') cutting edge clearance and 45° dump angle		mm (ft.in)	—	—	—	—
I. Reach at max. height and 45° dump angle		mm (ft.in)	965 (3'2")	945 (3'1")	986 (3'3")	945 (3'1")
Reach with arm horizontal and bucket level		mm (ft.in)	—	—	—	—
J. Operating Height (fully raised)		mm (ft.in)	4060 (13'4")	4060 (13'4")	4000 (13'1")	3910 (12'10")
K. Overall Length	Bucket on ground	mm (ft.in)	5425 (17'10")	5320 (17'5")	5380 (17'8")	5410 (17'9")
Turning Radius	Bucket edge	mm (ft.in)	4095 (13'5")	4095 (13'5")	4250 (13'11")	4175 (13'8")
M Digging Depth	0°	mm (ft.in)	95 (3.7")	95 (3.7")	165 (6.5")	135 (5.3")
	10°	mm (ft.in)	—	—	—	—
Breakout Force		kN kgf (lb)	37.1 3780 (8,340)	37.1 3780 (8,340)	30.9 3150 (6,950)	34.8 3550 (7,830)
Operating Weight		kg (lb)	4660 (10,270)	4640 (8,025)	4700 (10,360)	4890 (10,780)

Performance Data Dimensions

WHEEL LOADERS

WA70-6 (Germany source)



	Unit: mm (ft.in)
A Tread	1306 (4'3")
B Width over tires	1625 (5'4")
C Wheelbase	2050 (6'9")
D Hinge pin height, max. height	3150 (10'4")
E Ground clearance	305 (12")
F Overall height, ROPS cab	2465 (8'1")
Turning radius at corner of tire	3680 (12'1")

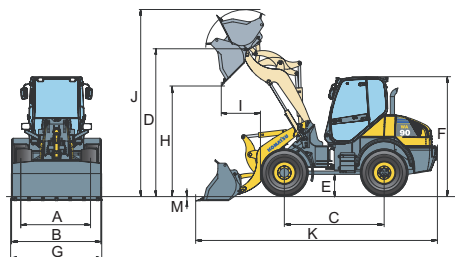
Measured with 12.0-18 tires

Bucket Type			Universal		Light materials		4-in-1
			With teeth	Without teeth	Without teeth	Without teeth	With teeth
Bucket Capacity	Heaped	m ³ (yd ³)	0.85 (1.11)	0.85 (1.11)	1.00 (1.31)	1.25 (1.64)	0.75 (0.98)
	Struck	m ³ (yd ³)	—	—	—	—	—
G Bucket Width		mm (ft.in)	1800 (5'11")	1800 (5'11")	1870 (6'2")	1870 (6'2")	1800 (5'11")
Bucket Weight without teeth		kg (lb)	295 (650)	273 (602)	301 (664)	337 (743)	592 (1,305)
Static Tipping Load	Straight	kg (lb)	4200 (9,260)	4300 (9,480)	4170 (9,130)	4080 (8,995)	3900 (8,600)
	Full turn (40°)	kg (lb)	3650 (8,050)	3750 (8,270)	3620 (7,980)	3540 (7,800)	3350 (7,385)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2415 (7'11")	2435 (8'0")	2335 (7'8")	2260 (7'5")	2355 (7'9")
Reach at 2130 mm (7') cutting edge clearance and 45° dump angle		mm (ft.in)	—	—	—	—	—
I. Reach at max. height and 45° dump angle		mm (ft.in)	935 (3'1")	915 (3'0")	960 (3'2")	1030 (3'5")	980 (3'3")
Reach with arm horizontal and bucket level		mm (ft.in)	—	—	—	—	—
J. Operating Height (fully raised)		mm (ft.in)	4070 (13'4")	4070 (13'4")	4025 (13'2")	4190 (13'9")	3950 (13'0")
K. Overall Length	Bucket on ground	mm (ft.in)	5445(17'10")	5310 (17'5")	5375 (17'8")	5475 (18'0")	5470 (17'11")
Turning Radius	Bucket edge	mm (ft.in)	4175 (13'8")	4175 (13'8")	4245 (13'11")	4280 (14'1")	4250 (13'11")
M. Digging Depth	0°	mm (ft.in)	100 (3.9")	100 (3.9")	140 (5.5")	140 (5.5")	110 (4.3")
	10°	mm (ft.in)	—	—	—	—	—
Breakout Force		kN kgf (lb)	41 4180 (9,220)	41 4180 (9,220)	35 3570 (7,870)	31 3160 (6,970)	36 3670 (8,095)
Operating Weight		kg (lb)	5060 (11,160)	5035 (11,100)	5065 (11,170)	5100 (11,240)	5355 (11,810)

Performance Data Dimensions

WHEEL LOADERS

WA80-6 (Germany source)



	Unit: mm (ft.in)
A Tread	1470 (4'10")
B Width over tires	1875 (6'2")
C Wheelbase	2260 (7'5")
D Hinge pin height, max. height	3210 (10'6")
E Ground clearance	300 (11'8")
F Overall height, ROPS cab	2665 (8'9")
Turning radius at corner of tire	3985 (13'1")

Measured with 405/70 R18 tires

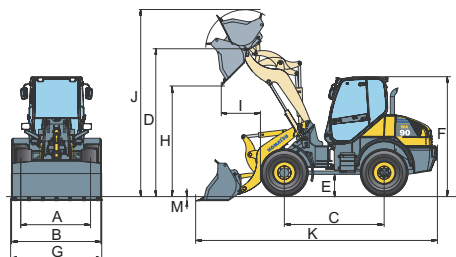
Bucket Type			Universal		Light materials		4-in-1
			With teeth	Without teeth	Without teeth	Without teeth	Without teeth
Bucket Capacity	Heaped	m ³ (yd ³)	0.95 (1.24)	0.95 (1.24)	1.00 (1.31)	1.25 (1.64)	0.8 (1.05)
	Struck	m ³ (yd ³)	—	—	—	—	—
G Bucket Width		mm (ft.in)	1915 (6'3")	1915 (6'3")	1870 (6'2")	1870 (6'2")	1900 (6'3")
Bucket Weight without teeth		kg (lb)	325 (716)	305 (672)	300 (661)	340 (750)	615 (1,356)
Static Tipping Load	Straight	kg (lb)	4310 (9,500)	4340 (9,570)	4335 (9,560)	4295 (9,470)	4035 (8,900)
	Full turn (40°)	kg (lb)	3720 (8,200)	3750 (8,270)	3750 (8,270)	3710 (8,180)	3445 (7,595)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2425 (7'11")	2520 (8'3")	2400 (7'10")	2330 (7'8")	2425 (7'11")
Reach at 2130 mm (7') cutting edge clearance and 45° dump angle		mm (ft.in)	—	—	—	—	—
I. Reach at max. height and 45° dump angle		mm (ft.in)	995 (3'3")	900 (2'11")	965 (3'2")	1035 (3'5")	985 (3'3")
Reach with arm horizontal and bucket level		mm (ft.in)	—	—	—	—	—
J. Operating Height (fully raised)		mm (ft.in)	4170 (13'8")	4170 (13'8")	4080 (13'5")	4250 (13'11")	4100 (13'8")
K. Overall Length		mm (ft.in)	5630 (18'6")	5495 (18'0")	5620 (18'5")	5720 (18'9")	5710 (18'9")
Turning Radius		mm (ft.in)	4420 (14'6")	4420 (14'6")	4520 (14'10")	4550 (14'11")	4490 (14'9")
M. Digging Depth	0°	mm (ft.in)	90 (3.5")	90 (3.5)	130 (5.1")	135 (5.3")	100 (3.9")
	10°	mm (ft.in)	—	—	—	—	—
Breakout Force		kN kgf (lb)	56.7 5780 (12,750)	56.7 5780 (12,750)	47.0 4790 (10,570)	41.8 4260 (9,400)	48.5 4950 (10,910)
Operating Weight		kg (lb)	5545 (12,220)	5625 (12,400)	5520 (12,170)	5560 (12,260)	5835 (12,860)

Performance Data Dimensions

WHEEL LOADERS

WA90-6 (Germany source)

Unit: mm (ft.in)



A Tread	1590 (5'3")
B Width over tires	2015 (6'7")
C Wheelbase	2300 (7'7")
D Hinge pin height, max. height	3450 (11'4")
E Ground clearance	350 (1'2")
F Overall height, ROPS cab	2820 (9'3")
Turning radius at corner of tire	4040 (13'3")

Measured with 405/70 R20 tires

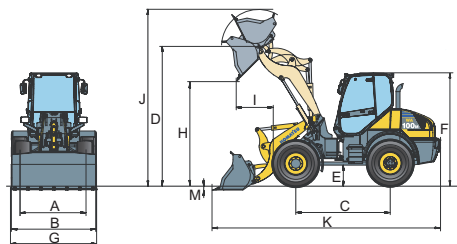
Bucket Type			Universal		Light material	Multi-purpose
			With teeth	Without teeth	Without teeth	With teeth
Bucket Capacity	Heaped	m ³ (yd ³)	1.1 (1.44)	1.1 (1.44)	1.60 (2.09)	0.90 (1.18)
	Struck	m ³ (yd ³)	—	—	—	—
G Bucket Width		mm (ft.in)	2050 (6'9")	2050 (6'9")	2200 (7'3")	2050 (6'9")
Bucket Weight		kg (lb)	383 (844)	360 (794)	461 (1,016)	625 (1,378)
Static Tipping Load	Straight	kg (lb)	5010 (11,045)	5030 (11,090)	4910 (10,825)	4800 (10,580)
	Full turn (40°)	kg (lb)	4265 (9,400)	4290 (9,460)	4170 (9,190)	4050 (8,930)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2600 (8'6")	2640 (8'8")	2440 (8'0")	2505 (8'3")
Reach at 2130 mm (7') cutting edge clearance and 45° dump angle		mm (ft.in)	—	—	—	—
I. Reach at max. height and 45° dump angle		mm (ft.in)	1030 (3'5")	950 (3'1")	1140 (3'9")	1120 (3'8")
Reach with arm horizontal and bucket level		mm (ft.in)	—	—	—	—
J. Operating Height (fully raised)		mm (ft.in)	4370 (14'4")	4370 (14'4")	4445 (14'7")	4300 (14'1")
K. Overall Length	Bucket on ground	mm (ft.in)	5850 (19'2")	5860 (19'3")	6130 (20'1")	6035 (19'10")
	Turning Radius	Bucket edge	mm (ft.in)	4500 (14'9)	4500 (14'9)	4650 (15'3")
M. Digging Depth	0°	mm (ft.in)	95 (3.7")	95 (3.7")	135 (5.3")	95 (3.7")
	10°	mm (ft.in)	—	—	—	—
Breakout Force		kN	71.4	71.4	59.5	74.2
		kgf (lb)	7280 (16,060)	7280 (16,060)	6070 (13,380)	7570 (16,685)
Operating Weight		kg (lb)	6500 (14,330)	6475 (14,275)	6580 (14,510)	6740 (14,860)

Performance Data Dimensions

WHEEL LOADERS

WA100M-6 (Germany source)

Unit: mm (ft.in)



A Tread	1635 (5'4")
B Width over tires	2080 (6'10")
C Wheelbase	2400 (7'10")
D Hinge pin height, max. height	3540 (11'7")
E Ground clearance	380 (1'3")
F Overall height, ROPS cab	2840 (9'4")
Turning radius at corner of tire	4230 (13'11")

Measured with 455/70 R24 tires

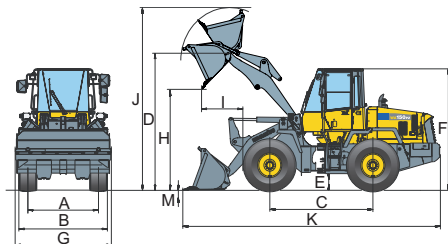
Bucket Type			Universal		Light material		4 · in · 1
			With teeth	Without teeth	Without teeth	With teeth	With teeth
Bucket Capacity	Heaped	m ³ (yd ³)	1.25 (1.63)	1.25 (1.63)	1.60 (2.09)	1.80 (2.35)	1.05 (1.37)
	Struck	m ³ (yd ³)	—	—	—	—	—
G Bucket Width		mm (ft.in)	2200 (7'3")	2200 (7'3")	2200 (7'3")	2200 (7'3")	2200 (7'3")
Bucket Weight		kg (lb)	415 (915)	390 (860)	461 (1,016)	496 (1,093)	695 (1,532)
Static Tipping Load	Straight	kg (lb)	5880 (12,960)	6000 (13,230)	5670 (12,500)	5675 (12,510)	5970 (13,160)
	Full turn (40°)	kg (lb)	5030 (11,090)	5140 (11,330)	4840 (10,670)	4840 (10,670)	5070 (11,180)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2710 (8'11")	2730 (8'11")	2560 (8'5")	2485 (8'2")	2620 (8'7")
Reach at 2130 mm (7') cutting edge clearance and 45° dump angle		mm (ft.in)	—	—	—	—	—
I. Reach at max. height and 45° dump angle		mm (ft.in)	885 (2'11")	845 (2'9")	965 (3'2")	965 (3'2")	960 (3'2")
Reach with arm horizontal and bucket level		mm (ft.in)	—	—	—	—	—
J. Operating Height (fully raised)		mm (ft.in)	4515 (14'10")	4515 (14'10")	4565 (15'0")	4635 (15'2")	4510 (14'10")
K. Overall Length	Bucket on ground	mm (ft.in)	6000 (19'8")	5865 (19'3")	6105 (20'0")	6195 (20'4")	6015 (19'9")
	Turning Radius	mm (ft.in)	4750 (15'7")	4750 (15'7")	4765 (15'8")	4805 (15'9")	4745 (15'7")
M. Digging Depth	0°	mm (ft.in)	85 (3.3")	85 (3.3")	125 (4.9")	175 (6.9")	85 (3.3")
	10°	mm (ft.in)	—	—	—	—	—
Breakout Force	kN		74.3	74.3	58.4	55.2	71.7
	kgf (lb)		7580 (16,710)	7580 (16,710)	5955 (13,130)	5630 (12,410)	7310 (16,120)
Operating Weight		kg (lb)	6900 (15,210)	6875 (15,160)	6946 (15,310)	6981 (15,390)	7180 (15,830)

Performance Data Dimensions

WHEEL LOADERS

WA150PZ-5 (Germany source)

Unit: mm (ft.in)



A Tread	1780 (5'10")
B Width over tires	2220 (7'3")
C Wheelbase	2600 (8'6")
D Hinge pin height, max. height	3695 (12'1")
E Ground clearance	425 (1'5")
F Overall height, ROPS cab	3065 (10'1")
Turning radius at corner of tire	4735 (15'6")

Measured with 17.5 R25 tires

Bucket Type			Universal			Earthmoving		
			Without teeth	With teeth	With BOC	Without teeth	With teeth	With BOC
Bucket Capacity	Heaped	m ³ (yd ³)	1.50 (1.96)	1.50 (1.96)	1.60 (2.09)	1.50 (1.96)	1.50 (1.96)	1.60 (2.09)
	Struck	m ³ (yd ³)	—	—	—	—	—	—
G Bucket Width		mm (ft.in)	2415 (7'11")	2415 (7'11")	2415 (7'11")	2415 (7'11")	2415 (7'11")	2415 (7'11")
Bucket Weight		kg (lb)	650 (1,430)	700 (1,540)	740 (1,630)	735 (1,620)	785 (1,730)	835 (1,840)
Static Tipping Load	Straight	kg (lb)	7185 (15,840)	7135 (15,730)	7090 (15,630)	7095 (15,640)	7045 (15,530)	7005 (15,440)
	Full turn (40°)	kg (lb)	6180 (13,620)	6130 (13,510)	6085 (13,410)	6090 (13,430)	6040 (13,320)	6000 (13,230)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2845 (9'4")	2705 (8'11")	2805 (9'2")	2845 (9'4")	2705 (8'11")	2805 (9'2")
Reach at 2130 mm (7') cutting edge clearance and 45° dump angle		mm (ft.in)	—	—	—	—	—	—
I. Reach at max. height and 45° dump angle		mm (ft.in)	850 (2'9")	940 (3'1")	890 (2'11")	850 (2'9")	940 (3'1")	890 (2'11")
Reach with arm horizontal and bucket level		mm (ft.in)	—	—	—	—	—	—
J. Operating Height (fully raised)		mm (ft.in)	4890 (16'1")	4890 (16'1")	4890 (16'1")	5010 (16'5")	5010 (16'5")	5010 (16'5")
K. Overall Length	Bucket on ground	mm (ft.in)	6490 (21'4")	6685 (21'11")	6550 (21'6")	6490 (21'4")	6685 (21'11")	6550 (21'6")
Turning Radius	Bucket edge	mm (ft.in)	5255 (17'3")	4685 (15'4")	5300 (17'5")	5255 (17'3")	5255 (17'3")	5300 (17'5")
M. Digging Depth	0°	mm (ft.in)	85 (3.3")	85 (3.3")	105 (4.1")	85 (3.3")	85 (3.3")	85 (3.3")
	10°	mm (ft.in)	—	—	—	—	—	—
Breakout Force		kgf (lb)	9280 (20,460)	9280 (20,460)	8770 (19,330)	9280 (20,460)	9280 (20,460)	8770 (19,330)
Operating Weight		kg (lb)	8615 (18,990)	8665 (19,100)	8705 (19,190)	8695 (19,170)	8745 (19,280)	8740 (19,270)

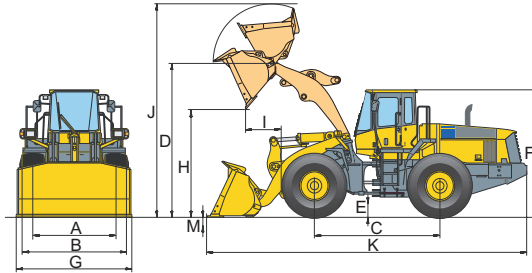
Bucket Type			Stockpile			Universal with quick coupler		
			Without teeth	With teeth	With BOC	Without teeth	With teeth	With BOC
Bucket Capacity	Heaped	m ³ (yd ³)	1.60 (2.09)	1.60 (2.09)	1.70 (2.22)	1.50 (1.96)	1.50 (1.96)	1.50 (1.96)
	Struck	m ³ (yd ³)	—	—	—	—	—	—
G Bucket Width		mm (ft.in)	2415 (7'11")	2415 (7'11")	2415 (7'11")	2415 (7'11")	2415 (7'11")	2415 (7'11")
Bucket Weight		kg (lb)	740 (1,630)	790 (1,740)	830 (1,830)	650 (1,430)	700 (1,540)	740 (1,630)
Static Tipping Load	Straight	kg (lb)	7095 (15,640)	7045 (15,530)	7000 (15,430)	6500 (14,330)	6450 (14,220)	6400 (14,110)
	Full turn (40°)	kg (lb)	6085 (13,410)	6035 (13,300)	5995 (13,220)	5555 (12,250)	5505 (12,140)	5450 (12,020)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2800 (9'2")	2660 (8'9")	2760 (9'1")	2760 (9'1")	2620 (8'7")	2720 (8'11")
Reach at 2130 mm (7') cutting edge clearance and 45° dump angle		mm (ft.in)	—	—	—	—	—	—
I. Reach at max. height and 45° dump angle		mm (ft.in)	870 (2'10")	1010 (3'4")	910 (3'0")	920 (3'0")	1060 (3'6")	980 (3'3")
Reach with arm horizontal and bucket level		mm (ft.in)	—	—	—	—	—	—
J. Operating Height (fully raised)		mm (ft.in)	5010 (16'5")	5010 (16'5")	5010 (16'5")	5075 (18'10")	5075 (18'10")	5075 (18'10")
K. Overall Length	Bucket on ground	mm (ft.in)	6520 (21'5")	6715 (22'0")	6580 (21'7")	6590 (21'7")	6785 (22'7")	6660 (21'10")
Turning Radius	Bucket edge	mm (ft.in)	5260 (17'3")	5260 (17'3")	5305 (17'5")	5285 (17'4")	5285 (17'4")	5330 (17'6")
M. Digging Depth	0°	mm (ft.in)	85 (3.3")	85 (3.3")	105 (4.1")	100 (3.9")	100 (3.9")	120 (4.7")
	10°	mm (ft.in)	—	—	—	—	—	—
Breakout Force		kgf (lb)	8970 (19,780)	8970 (19,780)	8460 (18,650)	8260 (18,210)	8260 (18,210)	7750 (17,090)
Operating Weight		kg (lb)	8695 (19,170)	8745 (19,280)	8795 (19,390)	8880 (19,580)	8930 (19,690)	8970 (19,780)

Performance Data Dimensions

WHEEL LOADERS

WA200PZ-6 (Germany source)

Unit: mm (ft.in)



A Tread	1930 (6'4")
B Width over tires	2470 (8'1")
C Wheelbase	2840 (9'4")
D Hinge pin height, max. height	3885 (12'9")
E Ground clearance	495 (1'7")
F Overall height, ROPS canopy	3180 (10'5")
Turning radius at corner of tire	5150 (16'11")

Bucket (With Quick Coupler)

Measured with 20.5 R25 tires

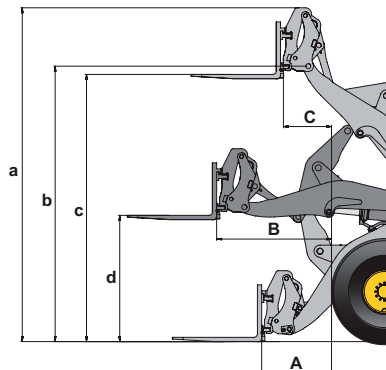
Bucket Type			Earthmoving		Stockpile		Universal	
			With teeth	With B.O.C.	With teeth	With B.O.C.	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	1.9 (2.5)	2.0 (2.6)	2.0 (2.6)	2.1 (2.7)	1.9 (2.5)	2.0 (2.6)
	Struck	m ³ (yd ³)	—	—	—	—	—	—
Bucket width		mm (ft.in)	2545 (8'4")	2540 (8'4")	2545 (8'4")	2540 (8'4")	2545 (8'4")	2540 (8'4")
Bucket weight		kg (lb)	860 (1,896)	935 (2,061)	875 (1,929)	950 (2,094)	825 (1,819)	900 (1,984)
Static tipping load	Straight	kg (lb)	8440 (18,610)	8280 (18,250)	8385 (18,490)	8260 (18,210)	8430 (18,590)	8290 (18,280)
	40° full turn	kg (lb)	7355 (16,220)	7205 (15,880)	7305 (16,110)	7185 (15,840)	7355 (16,220)	7215 (15,910)
H. Dumping clearance, max. height and 45° dump angle*		mm (ft.in)	2750 (9'0")	2830 (9'3")	2730 (8'11")	2805 (9'2")	2805 (9'2")	2730 (8'11")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	—	—	—	—	—	—
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1215 (4'0")	1100 (3'7")	1235 (4'1")	1120 (3'8")	1205 (3'11")	1095 (3'7")
Reach with arm horizontal and bucket level		mm (ft.in)	—	—	—	—	—	—
J. Operating height (fully raised)		mm (ft.in)	5315 (17'5")	5315 (17'5")	5315 (17'5")	5315 (17'5")	5290 (17'4")	5290 (17'4")
K. Overall length		mm (ft.in)	7420 (24'4")	7305 (24'0")	7450 (24'5")	7335 (24'1")	7450 (24'5")	7335 (24'1")
Turning radius*		mm (ft.in)	5800 (19'0")	5765 (18'11")	5810 (19'1")	5775 (18'11")	5810 (19'1")	5770 (18'11")
M. Digging depth	0°	mm (ft.in)	75 (3.0")	100 (3.9")	75 (3.0")	100 (3.9")	95 (3.7")	120 (4.7")
	10°	mm (ft.in)	—	—	—	—	—	—
Breakout force	kN		96	91.6	93.6	89.3	95.3	90.9
	kgf (lb)		9790 (21,590)	9340 (20,600)	9550 (21,050)	9110 (20,080)	9720 (21,430)	9270 (20,440)
Operating weight		kg (lb)	11765 (25,940)	11840 (26,100)	11780 (25,970)	11855 (26,140)	11730 (25,860)	11805 (26,030)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

Fork tines

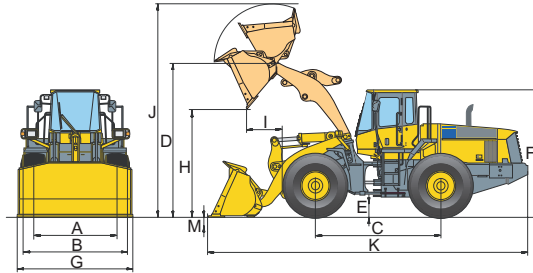
Fork tine length	mm (ft.in)	1200 (3'11")
A Max. reach at ground level	mm (ft.in)	985 (3'3")
B Max. reach	mm (ft.in)	1620 (5'4")
C Max. reach at max. stacking height	mm (ft.in)	720 (2'4")
a Max. height fork-carrier	mm (ft.in)	4705 (15'5")
b Hinge pin height	mm (ft.in)	3885 (12'9")
c Max. stacking height	mm (ft.in)	3765 (12'4")
d Height of forks at maximum reach	mm (ft.in)	1780 (5'10")
Max. tipping load, straight	kg (lb)	6310 (13,910)
Max. tipping load, articulated	kg (lb)	5520 (12,170)
Max. payload as per EN 474-3, 80%	kg (lb)	4415 (9,730)
Max. payload as per EN 474-3, 60%	kg (lb)	3325 (7,330)
Weight in working order with fork tines	kg (lb)	11470 (25,290)



Performance Data Dimensions

WHEEL LOADERS

WA250PZ-6 (Germany source)



Unit: mm (ft.in)

A Tread	1930 (6'4")
B Width over tires	2470 (8'1")
C Wheelbase	2900 (9'6")
D Hinge pin height, max. height	3965 (13'0")
E Ground clearance	465 (1'6")
F Overall height, ROPS canopy	3200 (10'6")
Turning radius at corner of tire	5240 (17'2")

Bucket (With Quick Coupler)

Measured with 20.5 R25 (L3) tires

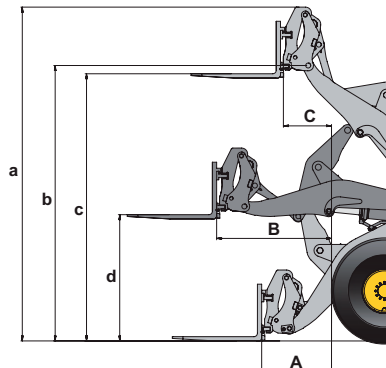
Bucket Type			Earthmoving		Stockpile		Universal	
			With teeth	With B.O.C.	With teeth	With B.O.C.	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	2.2 (2.9)	2.3 (3.0)	2.3 (3.0)	2.5 (3.3)	2.1 (2.7)	2.2 (2.9)
	Struck	m ³ (yd ³)	—	—	—	—	—	—
Bucket width		mm (ft.in)	2550 (8'4")	2540 (8'4")	2550 (8'4")	2540 (8'4")	2550 (8'4")	2540 (8'4")
Bucket weight		kg (lb)	1080 (2,381)	1085 (2,392)	1105 (2,436)	1110 (2,447)	955 (2,105)	960 (2,116)
Static tipping load	Straight	kg (lb)	8985 (19,810)	8955 (19,740)	8955 (19,740)	8905 (19,630)	9125 (20,120)	9105 (20,070)
	40° full turn	kg (lb)	7800 (17,200)	7765 (17,120)	7765 (17,120)	7720 (17,020)	7935 (17,490)	7915 (17,450)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2710 (8'11")	2815 (9'3")	2685 (8'10")	2790 (9'2")	2715 (8'11")	2815 (9'3")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	—	—	—	—	—	—
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1230 (4'0")	1095 (3'7")	1255 (4'1")	1120 (3'8")	1230 (4'0")	1090 (3'7")
Reach with arm horizontal and bucket level		mm (ft.in)	—	—	—	—	—	—
J. Operating height (fully raised)		mm (ft.in)	5450 (17'11")	5450 (17'11")	5450 (17'11")	5450 (17'11")	5390 (17'8")	5390 (17'8")
K. Overall length		mm (ft.in)	7585 (24'11")	7440 (24'5")	7620 (25'0")	7620 (25'0")	7580 (24'10")	7435 (24'5")
Turning radius		mm (ft.in)	5905 (19'4")	5855 (19'3")	5915 (19'5")	5865 (19'3")	5905 (19'4")	5855 (19'3")
M. Digging depth	0°	mm (ft.in)	125 (4.9")	150 (5.9")	125 (4.9")	150 (5.9")	125 (4.9")	150 (5.9")
	10°	mm (ft.in)	—	—	—	—	—	—
Breakout force	kN		111.9	107.2	108.9	104	112.4	107.4
	kgf (lb)		11410 (25,160)	10930 (24,110)	11110 (24,490)	10610 (23,390)	11460 (25,280)	10950 (24,150)
Operating weight		kg (lb)	13025 (28,720)	13030 (28,730)	13050 (28,770)	13055 (28,780)	12900 (28,440)	12905 (28,450)

* Bucket at carry, outside corner of bucket.

**At the end of tooth or B.O.C.

Fork tines

Fork tine length	mm (ft.in)	1200 (3'11")
A Max. reach at ground level	mm (ft.in)	965 (3'2")
B Max. reach	mm (ft.in)	1630 (5'4")
C Max. reach at max. stacking height	mm (ft.in)	725 (2'5")
a Max. height fork-carrier	mm (ft.in)	4765 (15'8")
b Hinge pin height	mm (ft.in)	3965 (13'0")
c Max. stacking height	mm (ft.in)	3820 (12'6")
d Height of forks at maximum reach	mm (ft.in)	1820 (6'0")
Max. tipping load, straight	kg (lb)	7005 (15,440)
Max. tipping load, articulated	kg (lb)	6120 (13,490)
Max. payload as per EN 474-3, 80%	kg (lb)	4895 (10,790)
Max. payload as per EN 474-3, 60%	kg (lb)	3670 (8,090)
Weight in working order with fork tines	kg (lb)	12510 (27,580)

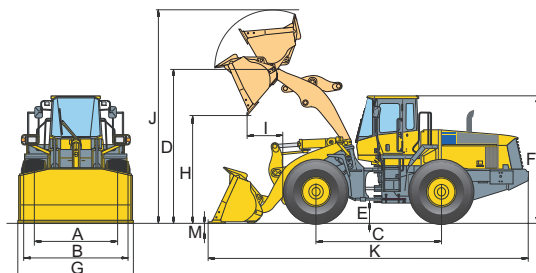


Performance Data Dimensions

WHEEL LOADERS

WA320PZ-6 (Germany source)

Unit: mm (ft.in)



A Tread	2050 (6'9")
B Width over tires	2580 (8'6")
C Wheelbase	3030 (9'11")
D Hinge pin height, max. height	4010 (13'2")
E Ground clearance	465 (1'6")
F Overall height, ROPS canopy	3200 (10'6")
Turning radius at corner of tire	5475 (18'0")

Bucket (With quick coupler)

Measured with 20.5 R25 (L3) tires

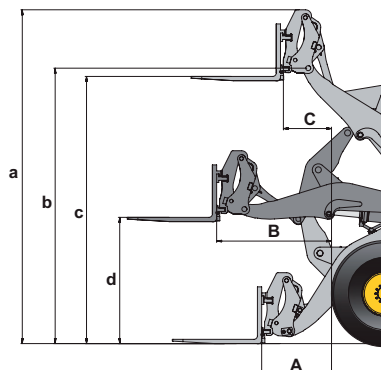
Bucket Type			Earthmoving		Stockpile		Universal	
			With teeth	With B.O.C.	With teeth	With B.O.C.	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	2.7 (3.5)	2.9 (3.8)	3.0 (3.9)	3.2 (4.2)	2.7 (3.5)	2.9 (3.8)
	Struck	m ³ (yd ³)	—	—	—	—	—	—
Bucket width		mm (ft.in)	2740 (9'0")	2750 (9'0")	2740 (9'0")	2750 (9'0")	2740 (9'0")	2750 (9'10")
Bucket weight		kg (lb)	1230 (2,712)	1320 (2,910)	1130 (2,491)	1220 (2,690)	1025 (2,260)	1115 (2,458)
Static tipping load	Straight	kg (lb)	10850 (23,920)	10655 (23,490)	10920 (24,070)	10735 (23,670)	11135 (25,550)	10945 (24,130)
	40° full turn	kg (lb)	9275 (20,450)	9090 (20,040)	9350 (20,610)	9175 (20,230)	9550 (21,050)	9370 (20,660)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2660 (8'9")	2745 (9'0")	2630 (8'8")	2715 (8'11")	2715 (8'11")	2800 (9'2")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	—	—	—	—	—	—
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1315 (4'4")	1185 (3'11")	1345 (4'5")	1215 (4'0")	1260 (4'2")	1135 (3'9")
Reach with arm horizontal and bucket level		mm (ft.in)	—	—	—	—	—	—
J. Operating height (fully raised)		mm (ft.in)	5500 (18'1")	5500 (18'1")	5660 (18'7")	5660 (18'7")	5495 (18'0")	5495 (18'0")
K. Overall length		mm (ft.in)	7990 (26'3")	7865 (25'10")	8035 (26'4")	7910 (25'11")	7920 (26'0")	7795 (25'7")
Turning radius		mm (ft.in)	6215 (20'5")	6180 (20'3")	6225 (20'5")	6195 (20'4")	6190 (20'4")	6160 (20'3")
M. Digging depth	0°	mm (ft.in)	95 (3.7")	125 (4.9")	95 (3.7")	125 (4.9")	95 (3.7")	125 (4.9")
	10°	mm (ft.in)	—	—	—	—	—	—
Breakout force	kN		147.6	139.5	143	135.4	156.3	147.3
	kgf (lb)		15055 (33,190)	14230 (31,370)	14590 (32,160)	13810 (30,450)	15940 (35,150)	15020 (33,120)
Operating weight		kg (lb)	15710 (34,630)	15475 (34,120)	15610 (34,410)	15700 (34,610)	15505 (34,180)	15595 (34,380)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

Fork tines

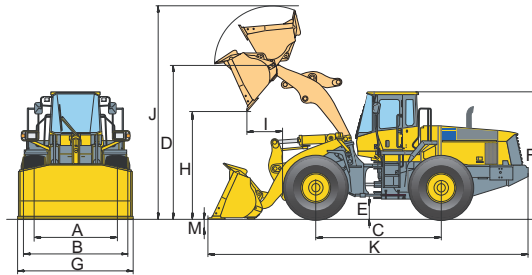
Fork tine length	mm (ft.in)	1200 (3'11")
A Max. reach at ground level	mm (ft.in)	1015 (3'4")
B Max. reach	mm (ft.in)	1665 (5'6")
C Max. reach at max. stacking height	mm (ft.in)	770 (2'6")
a Max. height fork-carrier	mm (ft.in)	4765 (15'8")
b Hinge pin height	mm (ft.in)	4010 (13'2")
c Max. stacking height	mm (ft.in)	3825 (12'7")
d Height of forks at maximum reach	mm (ft.in)	1815 (5'11")
Max. tipping load, straight	kg (lb)	8870 (19,560)
Max. tipping load, articulated	kg (lb)	7655 (16,880)
Max. payload as per EN 474-3, 80%	kg (lb)	6120 (13,490)
Max. payload as per EN 474-3, 60%	kg (lb)	4600 (10,140)
Weight in working order with fork tines	kg (lb)	15055 (33,190)



Performance Data Dimensions

WHEEL LOADERS

WA380-6 (Germany source)



Unit: mm (ft.in)

A Tread	2160 (7'1")
B Width over tires	2765 (9'1")
C Wheelbase	3300 (10'10")
D Hinge pin height, max. height	4095 (13'5")
E Ground clearance	450 (1'6")
F Overall height, ROPS canopy	3390 (11'1")
Turning radius at corner of tire	6660 (21'10")

Measured with 23.5 R25 (L3) tires

Bucket Type			Universal			Earthmoving		
			W/O teeth	With teeth	With B.O.C.	W/O teeth	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	3.1 (4.05)	3.1 (4.05)	3.25 (4.25)	3.1 (4.05)	3.1 (4.05)	3.25 (4.25)
	Struck	m ³ (yd ³)	–	–	–	–	–	–
Bucket width		mm (ft.in)	2915 (9'7")	2915 (9'7")	2925 (9'7")	2915 (9'7")	2915 (9'7")	2925 (9'7")
Bucket weight		kg (lb)	1420 (4'8")	1480 (4'10")	1640 (5'5")	1540 (5'1")	1600 (5'3")	1725 (5'8")
Static tipping load	Straight	kg (lb)	15300 (33,730)	15200 (33,510)	14905 (32,860)	15165 (33,430)	15085 (33,260)	14805 (32,640)
	40° full turn	kg (lb)	13595 (29,970)	13515 (29,800)	13210 (29,120)	13455 (29,660)	13380 (29,500)	13110 (28,900)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3040 (10'0")	2880 (9'5")	2970 (9'9")	2850 (9'4")	2690 (8'10")	2775 (9'1")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1070 (3'6")	1230 (4'0")	1105 (3'8")	1310 (4'4")	1470 (4'10")	1340 (4'5")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–	–	–	–
J. Operating height (fully raised)		mm (ft.in)	5460 (17'11")	5460 (17'11")	5460 (17'11")	5640 (18'6")	5640 (18'6")	5640 (18'6")
K. Overall length		mm (ft.in)	8030 (26'4")	8255 (27'1")	8125 (26'8")	8305 (27'3")	8530 (28'0")	8405 (27'7")
Turning radius		mm (ft.in)	7170 (23'6")	7230 (23'9")	7195 (23'7")	7240 (23'9")	7305 (24'0")	7270 (23'10")
M. Digging depth	0°	mm (ft.in)	85 (3.3")	85 (3.3")	115 (4.5")	50 (2.0")	50 (2.0")	80 (3.1")
	10°	mm (ft.in)	–	–	–	–	–	–
Breakout force		kN kgf (lb)	184 18770 (41,380)	184 18770 (41,380)	174 17750 (39,130)	145 14790 (32,600)	145 14790 (32,600)	137 13970 (30,800)
Operating weight		kg (lb)	17830 (39,310)	17890 (39,440)	18050 (39,790)	17940 (39,550)	18020 (39,730)	18160 (40,040)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Ground Clearance		Change in Vertical Dimensions	
			Straight		Full Turn							
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in
23.5 R25 XMINE D2 (L5)	+720	+1,585	+550	+1,210	+500	+1,100	+35	+1.4"	+45	1.8"	+45	1.8"
Install additional counterweight (rear)	+325	+715	+840	+1,850	+730	+1610	+140	+5.5"				
Install additional counterweight (rear + sides)	+525	+1,155	+1,250	+2,755	+1,100	+2,425	+140	+5.5"				

**Performance Data
Dimensions**

WHEEL LOADERS

WA380-6 (Germany source)

Measured with 23.5 R25 (L3) tires

Bucket Type			Stockpile			Heavy Duty		
			W/O teeth	With teeth	With B.O.C.	W/O teeth	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	3.45 (4.51)	3.45 (4.51)	3.6 (4.71)	3.0 (3.92)	3.0 (3.92)	3.2 (3.92)
	Struck	m ³ (yd ³)	–	–	–	–	–	–
Bucket width		mm (ft.in)	2915 (9'7")	2915 (9'7")	2925 (9'7")	2915 (9'7")	2915 (9'7")	2925 (9'7")
Bucket weight		kg (lb)	1690 (3,726)	1750 (3,858)	1910 (4,211)	1680 (3704)	1740 (3,836)	1900 (4,189)
Static tipping load	Straight	kg (lb)	15025 (33,120)	14945 (32,950)	14640 (32,280)	15080 (33,250)	15000 (33,070)	14690 (32,390)
	40° full turn	kg (lb)	13355 (29,440)	13235 (29,180)	12940 (28,530)	13365 (29,460)	13290 (29,300)	12990 (28,640)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2955 (9'8")	2795 (9'2")	2880 (9'5")	3040 (10'0")	2880 (9'5")	2970 (9'9")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1165 (3'10")	1325 (4'4")	1200 (3'11")	1070 (3'6")	1230 (4'0")	1105 (3'8")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–	–	–	–
J. Operating height (fully raised)		mm (ft.in)	5565 (18'3")	5565 (18'3")	5565 (18'3")	5460 (17'11")	5460 (17'11")	5460 (17'11")
K. Overall length		mm (ft.in)	8155 (26'9")	8380 (27'6")	8250 (27'1")	8030 (26'4")	8255 (27'1")	8125 (26'8")
Turning radius		mm (ft.in)	7200 (23'7")	7265 (23'10")	7230 (23'9")	7170 (23'6")	7230 (23'9")	7195 (23'7")
M. Digging depth	0°	mm (ft.in)	80 (3.1")	80 (3.1")	110 (4.3")	85 (3.3")	85 (3.3")	115 (4.5")
	10°	mm (ft.in)	–	–	–	–	–	–
Breakout force		kN	165	165	155	184	184	172
		kgf (lb)	16830 (37,100)	16830 (37,100)	15810 (34,850)	18770 (41,380)	18770 (41,380)	17540 (38,670)
Operating weight		kg (lb)	17840 (39,330)	17890 (39,440)	18060 (39,820)	17830 (39,310)	17890 (39,440)	18050 (39,790)

Measured with 23.5 R25 (L3) tires

Bucket Type			Universal (Quick Coupler mount***)			Universal (High-lift)
			W/O teeth	With teeth	With B.O.C.	W/O teeth
Bucket capacity	Heaped	m ³ (yd ³)	3.1 (4.05)	3.1 (4.05)	3.25 (4.25)	3.1 (4.05)
	Struck	m ³ (yd ³)	–	–	–	–
Bucket width		mm (ft.in)	2160 (7'1")	2160 (7'1")	2160 (7'1")	2160 (7'1")
Bucket weight		kg (lb)	1280 (2,820)	1360 (3,000)	1500 (3,310)	1420 (3,130)
Static tipping load	Straight	kg (lb)	14470 (31,900)	14355 (31,650)	14090 (31,060)	11560 (25,490)
	40° full turn	kg (lb)	12815 (28,250)	12700 (28,000)	12445 (27,440)	10200 (22,490)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2850 (9'4")	2690 (8'10")	2775 (9'1")	3520 (11'7")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1310 (4'4")	1470 (4'10")	1340 (4'5")	1215 (4'0")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–	–
J. Operating height (fully raised)		mm (ft.in)	5640 (18'6")	5640 (18'6")	5640 (18'6")	6000 (19'8")
K. Overall length		mm (ft.in)	8305 (27'3")	8530 (28'0")	8405 (27'7")	8700 (28'7")
Turning radius		mm (ft.in)	7240 (23'9")	7305 (24'0")	7270 (23'10")	7810 (25'7")
M. Digging depth	0°	mm (ft.in)	50 (2.0")	50 (2.0")	80 (3.1")	135 (5.3")
	10°	mm (ft.in)	–	–	–	–
Breakout force		kN	145	145	137	163
		kgf (lb)	14790 (32,610)	14790 (32,610)	13970 (30,800)	16630 (36,660)
Operating weight		kg (lb)	17940 (39,550)	18020 (39,730)	18160 (40,040)	17910 (39,480)

* Bucket at carry, outside corner of bucket.

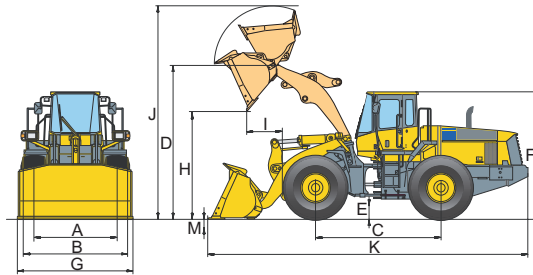
** At the end of tooth or B.O.C.

*** Market compatible

Performance Data Dimensions

WHEEL LOADERS

WA430-6 (Germany source)



Unit: mm (ft.in)

A Tread	2280 (7'6")
B Width over tires	2885 (9'6")
C Wheelbase	3300 (10'10")
D Hinge pin height, max. height	4155 (13'8")
E Ground clearance	450 (1'6")
F Overall height, ROPS canopy	3390 (11'1")
Turning radius at corner of tire	6720 (22'1")

Measured with 23.5 R25 tires

Bucket Type			Universal				
			With teeth	With B.O.C.	W/O teeth	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	3.3 (4.3)	3.45 (4.5)	3.6 (4.7)	3.6 (4.7)	3.75 (4.9)
	Struck	m ³ (yd ³)	–	–	–	–	–
G. Bucket width		mm (ft.in)	2990 (9'10")	3000 (9'10")	2990 (9'10")	2990 (9'10")	3000 (9'10")
Bucket weight		kg (lb)	1750 (3,860)	1800 (3,970)	1607 (3,540)	1763 (3,890)	1833 (4,040)
Static tipping load	Straight	kg (lb)	14765 (32,550)	14630 (32,250)	14940 (32,940)	14725 (32,460)	14550 (3,210)
	40° full turn	kg (lb)	13215 (29,130)	13085 (28,850)	13390 (29,520)	13175 (29,050)	13010 (28,680)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2815 (9'3")	2935 (9'8")	2980 (9'9")	2795 (9'2")	2905 (9'6")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1340 (4'5")	1180 (3'10")	1180 (3'10")	1365 (4'6")	1210 (4'0")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–	–	–
J. Operating height (fully raised)		mm (ft.in)	5555 (18'3")	5555 (18'3")	5670 (18'7")	5670 (18'7")	5670 (18'7")
K. Overall length		mm (ft.in)	8690 (28'6")	8515 (27'11")	8460 (27'9")	8735 (28'8")	8560 (28'1")
Turning radius		mm (ft.in)	7360 (24'2")	7315 (24'0")	7295 (23'11")	7370 (24'2")	7330 (24'1")
M. Digging depth	0°	mm (ft.in)	160 (6.3")	190 (7.5")	160 (6.3")	160 (6.3)	190 (7.5")
	10°	mm (ft.in)	–	–	–	–	–
Breakout force	kN		164	154	159	159	149
	kgf (lb)		16730 (36,880)	15710 (34,630)	16220 (35,760)	16220 (35,760)	15200 (33,510)
Operating weight		kg (lb)	19100 (42,110)	19145 (42,210)	18955 (41,790)	19120 (42,150)	19180 (42,280)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Overall length		Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn									
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
23.5 R25 XLD D1A L4	+570	+1,257	+425	+937	+385	+849	+40	+1.6"	–	–	+35	+1.4"	-28	-1.1"
23.5 R25 XMINE D2 L5	+720	+1,587	+535	+1,179	+485	+1,069	+35	+1.4"	–	–	+45	+1.8"	-25	-1.0"
26.5 R25 XHA L3	+325	+716	+815	+1,797	+710	+1,565	–	–	+140	+5.5"	–	–	–	–
Additional counterweight (rear)	+600	+1,323	+445	+981	+405	+893	-10	-0.4"						
Additional counterweight (rear + side)	+815		+1,670	+3,682	+1,475	+3,252	–	–	+140	+5.5"	–	–	–	–

**Performance Data
Dimensions**

WHEEL LOADERS

WA430-6 (Germany source)

Measured with 23.5 R25 tires

Bucket Type			Stockpile					
			W/O teeth	With teeth	With B.O.C.	W/O teeth	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	3.6 (4.7)	3.6 (4.7)	3.75 (4.9)	4.0 (5.2)	4.0 (5.2)	4.2 (5.5)
	Struck	m ³ (yd ³)	–	–	–	–	–	–
G. Bucket width		mm (ft.in)	2990 (9'10")	2990 (9'10")	3000 (9'10")	2990 (9'10")	2990 (9'10")	3000 (9'10")
Bucket weight		kg (lb)	1735 (3,820)	1902 (4,190)	1962 (4,325)	1902 (4,190)	2068 (4,560)	2124 (4,680)
Static tipping load	Straight	kg (lb)	14645 (32,290)	14425 (31,800)	14255 (31,430)	14545 (47,720)	14325 (31,580)	14155 (31,210)
	40° full turn	kg (lb)	13110 (28,900)	12890 (28,420)	12725 (28,050)	13005 (28,670)	12785 (28,190)	12625 (27,830)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2960 (9'9")	2775 (9'1")	2885 (9'6")	2920 (9'7")	2735 (9'0")	2845 (9'4")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1195 (3'11")	1380 (4'6")	1330 (4'4")	1235 (4'1")	1420 (4'8")	1265 (4'2")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–	–	–	–
J. Operating height (fully raised)		mm (ft.in)	5535 (18'2")	5535 (18'2")	5535 (18'2")	5770 (18'11")	5770 (18'11")	5770 (18'11")
K. Overall length		mm (ft.in)	8485 (27'10")	8760 (28'9")	8585 (28'2")	8540 (28'0")	8815 (28'11")	8640 (28'4")
Turning radius*		mm (ft.in)	7305 (24'2")	7380 (24'3")	7340 (24'1")	7320 (24'0")	7395 (24'3")	7355 (24'2")
M. Digging depth	0°	mm (ft.in)	160 (6.3")	160 (6.3")	190 (7.5")	160 (6.3")	160 (6.3")	190 (7.5")
	10°	mm (ft.in)	–	–	–	–	–	–
Breakout force		kN kgf (lb)	155 15810 (34,850)	155 15810 (34,850)	146 14890 (32,830)	149 15200 (33,510)	149 15200 (33,510)	141 14380 (31,700)
Operating weight		kg (lb)	19080 (42,060)	19250 (42,440)	19310 (42,570)	19250 (42,440)	19415 (42,800)	19470 (42,920)

Bucket Type			Earthmoving		Heavy Duty		Universal (High-lift)***
			With teeth	With B.O.C.	With teeth	With B.O.C.	W/O teeth
Bucket capacity	Heaped	m ³ (yd ³)	3.4 (4.4)	3.55 (4.6)	3.4 (4.4)	3.5 (4.6)	3.3 (4.3)
	Struck	m ³ (yd ³)	–	–	–	–	–
G. Bucket width		mm (ft.in)	2990 (9'10")	3000 (9'10")	2990 (9'10")	3000 (9'10")	2990 (9'10")
Bucket weight		kg (lb)	1748 (3,850)	1808 (3,990)	1980 (4,370)	2040 (4,500)	1580 (3,480)
Static tipping load	Straight	kg (lb)	14660 (32,320)	14475 (31,910)	14415 (31,780)	14235 (31,380)	13135 (28,960)
	40° full turn	kg (lb)	13115 (43,030)	12945 (28,540)	12870 (28,370)	12700 (28,000)	11700 (25,890)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2810 (9'3")	2920 (9'7")	2825 (9'3")	2935 (9'8")	3500 (11'6")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1345 (4'5")	1195 (3'11")	1335 (4'5")	1180 (3'10")	1255 (4'1")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–	–	–
J. Operating height (fully raised)		mm (ft.in)	5535 (18'2")	5535 (18'2")	5535 (18'2")	5535 (18'2")	6045 (19'10")
K. Overall length		mm (ft.in)	8710 (28'7")	8535 (28'0")	8690 (28'6")	8515 (27'11")	8950 (29'4")
Turning radius		mm (ft.in)	7365 (24'2")	7325 (24'0")	7360 (24'2")	7315 (24'0")	7500 (24'7")
M. Digging depth	0°	mm (ft.in)	160 (6.3")	190 (7.5")	160 (6.3")	190 (7.5")	205 (8'1")
	10°	mm (ft.in)	–	–	–	–	–
Breakout force		kN kgf (lb)	162 16520 (36,420)	152 15500 (34,170)	164 16720 (36,860)	154 15710 (34,630)	157 16010 (35,300)
Operating weight		kg (lb)	19005 (41,900)	19155 (42,230)	19325 (42,600)	19390 (42,750)	20010 (44,110)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

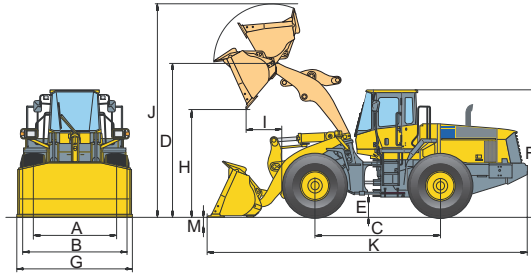
*** Market compatible

Performance Data Dimensions

WHEEL LOADERS

WA470-6 (Germany source)

Unit: mm (ft.in)



A Tread	2300 (7'7")
B Width over tires	2975 (9'9")
C Wheelbase	3450 (11'4")
D Hinge pin height, max. height	4335 (14'3")
E Ground clearance	505 (1'8")
F Overall height, ROPS canopy	3470 (11'5")
Turning radius at corner of tire	6990 (22'11")

Measured with 23.5 R25 tires

Bucket Type			Universal				
			With teeth	With B.O.C.	W/O teeth	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	4.1 (5.4)	4.25 (5.56)	4.5 (5.9)	4.5 (5.9)	4.65 (6.1)
	Struck	m ³ (yd ³)	–	–	–	–	–
G. Bucket width		mm (ft.in)	2995 (9'10")	3000 (9'10")	3160 (10'4")	3165 (10'5")	3170 (10'5")
Bucket weight		kg (lb)	2015 (4,440)	2090 (4,610)	1923 (4,240)	2085 (4,600)	2162 (4,770)
Static tipping load	Straight	kg (lb)	18505 (40,800)	18275 (40,290)	18650 (41,120)	18430 (40,630)	18180 (40,080)
	37° full turn	kg (lb)	16510 (36,400)	16300 (35,930)	16660 (36,730)	16440 (36,240)	16200 (35,710)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2900 (9'6")	3010 (9'11")	3085 (10'1")	2900 (9'6")	3010 (9'11")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1465 (4'10")	1315 (4'4")	1280 (4'2")	1465 (4'10")	1315 (4'4")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–	–	–
J. Operating height (fully raised)		mm (ft.in)	5975 (19'7")	5975 (19'7")	5975 (19'7")	5975 (19'7")	5975 (19'7")
K. Overall length		mm (ft.in)	9230 (30'3")	9070 (29'9")	8970 (29'5")	9230 (30'3")	9070 (29'9")
Turning radius*		mm (ft.in)	7670 (25'2")	7625 (25'0")	7665 (25'2")	7745 (25'5")	7700 (25'3")
M. Digging depth	0°	mm (ft.in)	125 (4.9")	155 (6.1")	125 (4.9")	125 (4.9")	155 (6.1")
	10°	mm (ft.in)	–	–	–	–	–
Breakout force		kN	194	183	194	193	183
		kgf	19790	18670	19790	19690	18670
		(lb)	(43,630)	(41,160)	(43,630)	(43,410)	(41,160)
Operating weight		kg (lb)	23060 (50,840)	23140 (51,010)	22970 (50,640)	23130 (50,990)	23210 (51,170)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Overall length		Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn									
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
26.5 R25 XLD D1A L4	+392	+864	+294	+848	+265	+584	+17	+0.7"	–	–	+35	+1.4"	-35	-1.4"
26.5 R25 XMINE D2 L5	+1,124	+2,478	+840	+1,852	+760	+1,675	+45	+1.8"	–	–	+45	+1.8"	-29	-1.1"
Additional counterweight (rear)	+400	+882	+1,020	+2,249	+890	+1,962	–	–	+165	+6.5"	–	–	–	–
Heavy counterweight (rear)	+1,085	+2,392	+2,620	+5,776	+2,290	+5,049	–	–	+165	+6.5"	–	–	–	–

**Performance Data
Dimensions**

WHEEL LOADERS

WA470-6 (Germany source)

Measured with 26.5 R25 tires

Bucket Type			Earthmoving		Light material	Stockpile		
			With teeth	With B.O.C.	With B.O.C.	W/O teeth	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	4.2 (5.5)	4.35 (5.7)	6.0 (7.8)	4.6 (6.0)	4.6 (6.0)	4.9 (6.4)
	Struck	m ³ (yd ³)	–	–	–	–	–	–
G. Bucket width		mm (ft.in)	2995 (9'10")	3000 (9'10")	3250 (10'8")	2990 (9'10")	2995 (9'10")	3170 (10'5")
Bucket weight		kg (lb)	2187 (4,820)	2257 (4,980)	2305 (5,080)	2267 (5,000)	2422 (5,340)	2543 (5,610)
Static tipping load	Straight	kg (lb)	18285 (40,310)	18035 (39,760)	18490 (40,760)	18165 (40,050)	17950 (39,570)	17730 (39,090)
	37° full turn	kg (lb)	16300 (35,930)	16060 (35,410)	16465 (36,300)	18180 (40,080)	15970 (35,210)	15760 (34,740)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2885 (9'6")	2995 (9'10")	2935 (9'8")	3015 (9'11")	2835 (9'4")	2970 (9'9")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1480 (4'10")	1330 (4'4")	1460 (4'9")	1350 (4'5")	1535 (5'0")	1355 (4'5")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–	–	–	–
J. Operating height (fully raised)		mm (ft.in)	5950 (19'6")	5950 (19'6")	6265 (20'7")	5980 (19'7")	5980 (19'7")	5980 (19'7")
K. Overall length		mm (ft.in)	9250 (30'4")	9090 (29'10")	9190 (30'2")	9065 (29'9")	9325 (30'7")	9130 (29'11")
Turning radius*		mm (ft.in)	7675 (25'2")	7630 (25'0")	7765 (25'6")	7615 (25'0")	7695 (25'3")	7645 (25'1")
M. Digging depth	0°	mm (ft.in)	125 (4.9")	155 (6.1")	105 (4.1")	125 (4.9")	125 (4.9")	155 (6.1")
	10°	mm (ft.in)	–	–	–	–	–	–
Breakout force		kN kgf (lb)	192 19580 (43,170)	181 18460 (40,700)	167 17030 (37,540)	182 18560 (40,920)	182 18560 (40,920)	176 17950 (39,570)
Operating weight		kg (lb)	23235 (51,220)	23305 (51,380)	23350 (51,480)	23315 (51,400)	23470 (51,740)	23590 (52,010)

Bucket Type			Heavy Duty		Universal (High-lift)
			With teeth	With teeth	W/O teeth
Bucket capacity	Heaped	m ³ (yd ³)	4.1 (5.4)	4.25 (5.56)	4.1 (5.4)
	Struck	m ³ (yd ³)	–	–	–
Bucket width		mm (ft.in)	2995 (9'10")	3000 (9'10")	2990 (9'10")
Bucket weight		kg (lb)	2388 (5,260)	2450 (5,400)	1865 (4,110)
Static tipping load	Straight	kg (lb)	18055 (39,800)	17835 (39,320)	16410 (36,180)
	37° full turn	kg (lb)	16060 (35,410)	15860 (34,960)	14520 (32,010)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	2905 (9'6")	3015 (9'11")	3600 (11'10")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1460 (4'9")	1310 (4'4")	1455 (4'9")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–
J. Operating height (fully raised)		mm (ft.in)	5950 (19'6")	5950 (19'6")	6485 (21'3")
K. Overall length		mm (ft.in)	9225 (30'3")	9065 (29'9")	9740 (31'11")
Turning radius*		mm (ft.in)	7665 (25'2")	7625 (5'4")	7830 (25'8")
M. Digging depth	0°	mm (ft.in)	125 (4.9")	155 (6.1")	265 (10.4")
	10°	mm (ft.in)	–	–	–
Breakout force		kN kgf (lb)	195 19890 (43,850)	184 18770 (41,380)	189 19280 (42,500)
Operating weight		kg (lb)	23435 (51,660)	23500 (51,810)	24290 (53,550)

* Bucket at carry, outside corner of bucket.

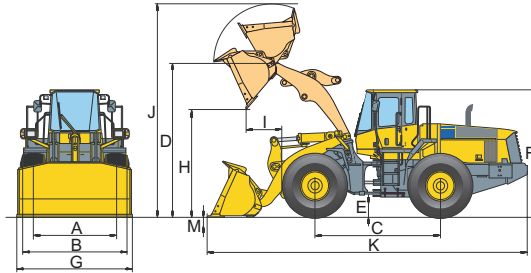
** At the end of tooth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA480-6 (Germany source)

Unit: mm (ft.in)



A Tread	2300 (7'7")
B Width over tires	2975 (9'9")
C Wheelbase	3450 (11'4")
D Hinge pin height, max. height	4483 (14'9")
E Ground clearance	500 (1'8")
F Overall height, ROPS canopy	3465 (11'4")
Turning radius at corner of tire	7000 (23'0")

Measured with 26.5 R25 tires

Bucket Type			Universal			Earthmoving	
			W/O teeth	With teeth	With B.O.C.	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	4.65 (6.1)	4.65 (6.1)	4.8 (6.3)	4.5 (5.9)	4.65 (6.1)
	Struck	m ³ (yd ³)	–	–	–	–	–
Bucket width		mm (ft.in)	3160 (10'4")	3165 (10'5")	3170 (10'5")	3165 (10'5")	3170 (10'5")
Bucket weight		kg (lb)	2105 (4,640)	2260 (4,980)	2345 (5,170)	2365 (5,210)	2445 (5,390)
Static tipping load	Straight	kg (lb)	21125 (46,570)	20915 (46,110)	20670 (45,570)	20705 (45,650)	20465 (45,120)
	37° full turn	kg (lb)	18740 (41,310)	18530 (40,850)	18305 (40,360)	18325 (40,440)	18100 (39,900)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3230 (10'7")	3045 (10'0")	3160 (10'4")	3032 (9'11")	3143 (10'4")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1360 (4'6")	1530 (5'0")	1375 (4'6")	1542 (5'1")	1389 (4'7")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–	–	–
J. Operating height (fully raised)		mm (ft.in)	6170 (20'3")	6170 (20'3")	6170 (20'3")	6110 (20'1")	6110 (20'1")
K. Overall length		mm (ft.in)	9140 (30'0")	9400 (30'10")	9235 (30'4")	9420 (30'11")	9420 (30'11")
Turning radius*		mm (ft.in)	7675 (25'2")	7750 (25'5")	7710 (25'4")	7760 (25'6")	7715 (25'4")
M. Digging depth	0°	mm (ft.in)	130 (5.1")	130 (5.1")	160 (6.3")	130 (5.1")	160 (6.3")
	10°	mm (ft.in)	–	–	–	–	–
Breakout force		kN	244	244	232	240	227
		kgf (lb)	24890 (54,870)	24890 (54,870)	23660 (52,160)	24480 (53,970)	23150 (51,050)
Operating weight		kg (lb)	25140 (55,420)	25295 (55,770)	25380 (55,950)	25000 (55,120)	25080 (55,290)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Overall length		Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn									
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
26.5 R25 XLD D1A L4	+392	+864	+280	+617	+250	+551	+17	+0.7"	–	–	+35	+1.4"	-35	-1.4"
26.5 R25 XMINE D2 L5	+1,124	+2,478	+795	+1,753	+720	+1,587	+45	+1.8"	–	–	+45	+1.8"	-29	-1.1"
Without additional counterweight (rear)	-400	-882	-1,020	-2,249	-890	-1,962	–	–	-165	-6.5"	–	–	–	–

**Performance Data
Dimensions**

WHEEL LOADERS

WA480-6 (Germany source)

Measured with 26.5 R25 tires

Bucket Type			Stockpile (With flat bottom)			Stockpile (With raised bottom)		
			W/O teeth	With teeth	With B.O.C.	W/O teeth	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	4.9 (6.4)	4.9 (6.4)	5.0 (6.5)	4.9 (6.4)	4.9 (6.4)	5.0 (6.5)
	Struck	m ³ (yd ³)	–	–	–	–	–	–
G. Bucket width		mm (ft.in)	3160 (10'4")	3165 (10'5")	3170 (10'5")	3160 (10'4")	3165 (10'5")	3170 (10'5")
Bucket weight		kg (lb)	2335 (5,150)	2495 (5,500)	2570 (5,670)	2135 (4,710)	2295 (5,060)	2270 (5,000)
Static tipping load	Straight	kg (lb)	20735 (45,710)	20520 (45,240)	20295 (44,740)	20835 (45,930)	20620 (45,460)	20395 (44,960)
	37° full turn	kg (lb)	18365 (40,490)	18145 (40,000)	17935 (39,540)	18465 (40,710)	18245 (40,220)	18035 (39,760)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3165 (10'5")	2980 (9'9")	3090 (10'2")	3165 (10'5")	2980 (9'9")	3090 (10'2")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1410 (4'8")	1595 (5'3")	1440 (4'9")	1410 (4'8")	1595 (5'3")	1440 (4'9")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–	–	–	–
J. Operating height (fully raised)		mm (ft.in)	6140 (20'2")	6140 (20'2")	6140 (20'2")	6140 (20'2")	6140 (20'2")	6140 (20'2")
K. Overall length		mm (ft.in)	9235 (30'4")	9495 (31'2")	9330 (30'7")	9235 (30'4")	9495 (31'2")	9330 (30'7")
Turning radius*		mm (ft.in)	7700 (25'3")	7780 (25'6")	7735 (25'5")	7700 (25'3")	7785 (25'6")	7735 (25'5")
M. Digging depth	0°	mm (ft.in)	130 (5.1")	130 (5.1")	160 (6.3")	130 (5.1")	130 (5.1")	160 (6.3")
	10°	mm (ft.in)	–	–	–	–	–	–
Breakout force		kN	228	228	217	228	228	217
		kgf	23260	23260	22130	23260	23260	22130
		(lb)	(51,280)	(51,280)	(48,790)	(51,270)	(51,270)	(48,800)
Operating weight		kg (lb)	24970 (55,050)	25130 (55,400)	25205 (55,570)	25370 (55,930)	25530 (56,280)	25605 (56,450)

Bucket Type			Universal		
			W/O teeth	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	4.65 (6.1)	4.65 (6.1)	4.8 (6.3)
	Struck	m ³ (yd ³)	–	–	–
G. Bucket width		mm (ft.in)	3160 (10'4")	3165 (10'5")	3170 (10'5")
Bucket weight		kg (lb)	2105 (4,640)	2260 (4,980)	2345 (5,170)
Static tipping load	Straight	kg (lb)	21125 (46,570)	20915 (46,110)	20670 (45,570)
	37° full turn	kg (lb)	18740 (41,310)	18530 (40,850)	18305 (40,360)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3230 (10'7")	3045 (10'0")	3160 (10'4")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1360 (4'6")	1530 (5'0")	1375 (4'6")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–
J. Operating height (fully raised)		mm (ft.in)	6170 (20'3")	6170 (20'3")	6170 (20'3")
K. Overall length		mm (ft.in)	9140 (30'0")	9400 (30'10")	9235 (30'4")
Turning radius*		mm (ft.in)	7675 (25'2")	7750 (25'5")	7710 (25'4")
M. Digging depth	0°	mm (ft.in)	130 (5.1")	130 (5.1")	160 (6.3")
	10°	mm (ft.in)	–	–	–
Breakout force		kN	244	244	232
		kgf	24890	24890	23660
		(lb)	(54,870)	(54,870)	(52,170)
Operating weight		kg (lb)	25140 (55,420)	25295 (55,770)	25380 (55,950)

* Bucket at carry, outside corner of bucket.

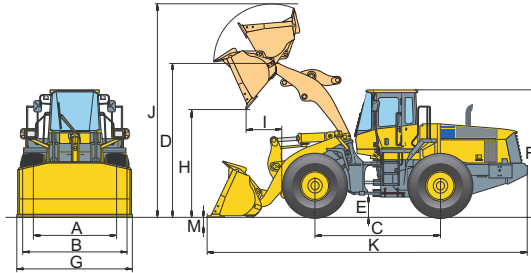
** At the end of tooth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA500-6 (Germany source)

Unit: mm (ft.in)



A Tread	2400 (7'10")
B Width over tires	3150 (10'4")
C Wheelbase	3780 (12'5")
D Hinge pin height, max. height	4770 (15'8")
E Ground clearance	460 (1'6")
F Overall height, ROPS canopy	3795 (12'5")
Turning radius at corner of tire	6870 (22'6")

Measured with 29.5 R25 tires

Bucket Type			Universal			Rock Straight edge		
			W/O teeth	With teeth	With B.O.C.	With teeth	With B.O.C.	
Bucket capacity	Heaped	m ³ (yd ³)	5.3 (5'9")	5.3 (6.9)	5.6 (7.3)	5.2 (6.8)	5.5 (7.2)	
	Struck	m ³ (yd ³)	–	–	–	–	–	
G. Bucket width			mm (ft.in)	3430 (11'3")	3430 (11'3")	3440 (11'3")	3430 (11'3")	3440 (11'3")
Bucket weight			kg (lb)	2660 (5,860)	2875 (6,340)	2915 (6,430)	3015 (6,650)	3060 (6,750)
Static tipping load	Straight	kg (lb)	24000 (52,910)	23700 (52,250)	23480 (51,760)	23645 (52,130)	23400 (51,590)	
	40° full turn	kg (lb)	20930 (46,140)	20640 (45,500)	20440 (45,060)	20565 (45,340)	20350 (44,860)	
H. Dumping clearance, max. height and 45° dump angle**			mm (ft.in)	3460 (11'4")	3240 (10'8")	3390 (11'1")	3240 (10'8")	3390 (11'1")
Reach at 2130 mm (7') clearance and 45° dump angle			mm (ft.in)	–	–	–	–	–
I. Reach at max. height and 45° dump angle**			mm (ft.in)	1350 (4'5")	1570 (5'2")	1385 (4'7")	1570 (5'2")	1385 (4'7")
Reach with arm horizontal and bucket level			mm (ft.in)	–	–	–	–	–
J. Operating height (fully raised)			mm (ft.in)	6510 (21'4")	6510 (21'4")	6510 (21'4")	6690 (21'11")	6690 (21'11")
K. Overall length			mm (ft.in)	9580 (31'5")	9890 (32'5")	9680 (31'9")	9890 (32'5")	9680 (31'9")
Turning radius			mm (ft.in)	7570 (24'10")	7660 (25'2")	7600 (24'11")	7660 (25'2")	7600 (24'11")
M. Digging depth	0°	mm (ft.in)	120 (4.7")	120 (4.7")	150 (5.9")	120 (4.7")	150 (5.9")	
	10°	mm (ft.in)	–	–	–	–	–	
Breakout force			kN kgf (lb)	274 27950 (61,620)	272 27740 (61,160)	259 26420 (58,250)	271 27640 (60,940)	258 26320 (58,030)
Operating weight			kg (lb)	31700 (69,890)	31915 (70,360)	31955 (70,450)	32055 (70,670)	32100 (70,770)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

Weight Changes

	Change in Operating Weight		Change in Tipping Load				Width Over Tire		Overall length		Change in Vertical Dimensions		Change in Reach	
			Straight		Full Turn									
	kg	lb	kg	lb	kg	lb	mm	ft.in	mm	ft.in	mm	ft.in	mm	ft.in
29.5 R25 XLD D1A-L4	+500	+1,102	+360	+794	+315	+694	+20	+0.8"	–	–	+20	+0.8"	-25	-1.0"
29.5 R25 XMINE-L5	+1,140	+2,513	+810	+1,786	+710	+1,565	+55	+2.2"	–	–	+30	+1.2"	-20	-0.8"
Additional counterweight	+900	+1,984	+1,880	+4,145	+1,580	+3,483	–	–	–	–	–	–	–	–

**Performance Data
Dimensions**

WHEEL LOADERS

WA500-6 (Germany source)

Measured with 29.5 R25 tires

Bucket Type			Rock Spade nose		Stockpile		
			With teeth	With B.O.C.	W/O teeth	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	5.2 (6.8)	5.5 (7.2)	5.6 (7.3)	5.6 (7.3)	5.9 (7.7)
	Struck	m ³ (yd ³)	–	–	–	–	–
G. Bucket width		mm (ft.in)	3430 (11'3")	3440 (11'3")	3430 (11'3")	3430 (11'3")	3440 (11'3")
Bucket weight		kg (lb)	3240 (7,140)	3280 (7,230)	2765 (6,100)	2975 (6,560)	3020 (6,660)
Static tipping load	Straight	kg (lb)	23080 (50,880)	22930 (50,550)	23755 (52,370)	23470 (51,740)	23245 (51,250)
	40° full turn	kg (lb)	20040 (44,180)	19900 (43,870)	20700 (45,640)	20420 (45,020)	20215 (44,570)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	4770 (15'8")	4770 (15'8")	4770 (15'8")	4770 (15'8")	4770 (15'8")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1570 (5'2")	1610 (5'3")	1385 (4'7")	1605 (5'3")	1420 (4'8")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–	–	–
J. Operating height (fully raised)		mm (ft.in)	6690 (21'11")	6690 (21'11")	6590 (21'7")	6590 (21'7")	6590 (21'7")
K. Overall length		mm (ft.in)	9900 (32'6")	10000 (32'10")	9630 (31'7")	9940 (32'7")	9730 (31'11")
Turning radius*		mm (ft.in)	7660 (25'2")	7700 (25'3")	7590 (24'11")	7680 (25'2")	7620 (25'0")
M. Digging depth	0°	mm (ft.in)	120 (4.7")	150 (5.9")	120 (4.7")	120 (4.7")	150 (5.9")
	10°	mm (ft.in)	–	–	–	–	–
Breakout force		kN kgf (lb)	220 22440 (49,470)	210 21420 (47,220)	264 26930 (59,370)	262 76720 (58,910)	249 25400 (56,000)
Operating weight		kg (lb)	32280 (71,160)	32320 (71,250)	31800 (70,110)	32010 (70,570)	32055 (70,670)

Bucket Type			Stockpile		Universal (High-lift)	
			W/O teeth	With B.O.C.	With teeth	With B.O.C.
Bucket capacity	Heaped	m ³ (yd ³)	6.0 (7.85)	6.3 (8.24)	4.5 (5.9)	4.7 (6.15)
	Struck	m ³ (yd ³)	–	–	–	–
G. Bucket width		mm (ft.in)	3430 (11'3")	3440 (11'3")	3430 (11'3")	3440 (11'3")
Bucket weight		kg (lb)	2870 (6,330)	3125 (6,890)	2570 (5,670)	2620 (5,780)
Static tipping load	Straight	kg (lb)	23540 (51,900)	23015 (50,740)	20200 (44,530)	20080 (44,270)
	40° full turn	kg (lb)	20500 (45,190)	20000 (44,090)	17510 (38,600)	17400 (38,360)
H. Dumping clearance, max. height and 45° dump angle**		mm (ft.in)	3375 (11'1")	3300 (10'10")	3775 (12'5")	3920 (12'10")
Reach at 2130 mm (7') clearance and 45° dump angle		mm (ft.in)	–	–	–	–
I. Reach at max. height and 45° dump angle**		mm (ft.in)	1440 (4'9")	1470 (4'10")	1570 (5'2")	1380 (4'6")
Reach with arm horizontal and bucket level		mm (ft.in)	–	–	–	–
J. Operating height (fully raised)		mm (ft.in)	6660 (21'10")	6660 (21'10")	6770 (22'3")	6770 (22'3")
K. Overall length		mm (ft.in)	9705 (31'10")	9805 (32'2")	10205 (33'6")	10190 (33'5")
Turning radius*		mm (ft.in)	7610 (25'0")	7640 (25'0")	7840 (25'9")	7780 (25'6")
M. Digging depth	0°	mm (ft.in)	120 (4.7")	150 (5.9")	195 (7.7")	225 (8.9")
	10°	mm (ft.in)	–	–	–	–
Breakout force		kN kgf (lb)	250 25500 (56,220)	237 24170 (53,290)	307 31310 (69,030)	290 29580 (65,210)
Operating weight		kg (lb)	31910 (70,350)	31165 (68,710)	31760 (70,020)	31810 (70,130)

* Bucket at carry, outside corner of bucket.

** At the end of tooth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA320-3 (China source)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I General-purpose bucket with teeth	2.3 (3.0)	2.0 (2.6)	2760 (9'1")		13050 (28,770)
II General-purpose bucket with bolt-on cutting edges; (Loading and excavating of soil, sand and variety of other commonly handled materials.)	2.5 (3.3)	2.3 (3.0)			

Tires/Buckets	Operating weight kg (lb)		Static tipping load kg (lb)			
			Straight		40° full turn	
	I	II	I	II	I	II
20.5-25-16PR (L-3)	12850 (28,330)		10890 (24,010)		9475 (20,890)	

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.

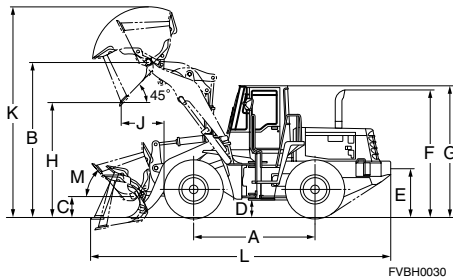
Weight Changes

Change in operating weight kg (lb)

Change in tipping load kg (lb)
Straight Full turn

Steel ROPS cab

-310 (-683)



Tread	2050 (6'9")
Width over tires	2585 (8'6")
A Wheelbase	3030 (9'11")
B Hinge pin height, max. height	3885 (12'9")
C Hinge pin height, carry position	450 (1'6")
D Ground clearance	400 (1'4")
E Hitch height	1190 (3'11")
F Overall height, top of the stack	3205 (10'6")
G Overall height, ROPS cab	3335 (10'11")
M Tilt back angle	48°

Unit: mm (ft.in)

20.5-25 tires

Measured with 20.5-25 tires

	Buckets	I	II
H. Dumping clearance, max. height and 45° dump angle**		2800 (9'2")	
Reach at 2130 mm (7') cut edge clearance and 45° dump angle			
J. Reach at max. height and 45° dump angle**		1065 (3'6")	
Reach with arm horizontal and bucket level			
K. Operating height (fully raised)		5195 (17'1")	
L. Overall length		7465 (24'6")	
Turning radius*		6105 (20'0")	
Digging depth	0°	45 (1.8")	
	10°	320 (1'1")	

* Bucket at carry, outside corner of bucket

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA380-3 (China source)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I General-purpose bucket with teeth	3.0 (3.9)	2.5 (3.3)	2915 (9'7")		17130 (37,760)
II General-purpose bucket with bolt-on cutting edges; (Loading and excavating of soil, sand and variety of other commonly handled materials.)	3.1 (4.0)	2.7 (3.5)			

Tires/Buckets	Operating weight kg (lb)		Static tipping load kg (lb)			
	I	II	Straight		40° full turn	
			I	II	I	II
23.5-25-16PR (L-3)	16410 (36,180)		12100 (26,680)		10530 (23,210)	

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.

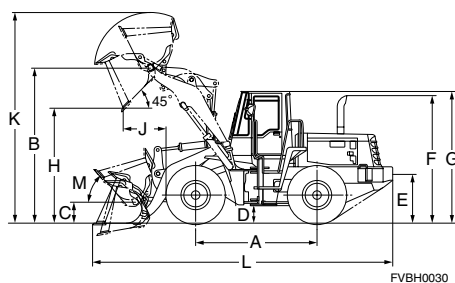
Weight Changes

Change in operating weight kg (lb)

Change in tipping load kg (lb)
Straight Full turn

Steel ROPS cab

-310 (-683)



FVBH0030

Tread	
Width over tires	
A Wheelbase	
B Hinge pin height, max. height	
C Hinge pin height, carry position	
D Ground clearance	
E Hitch height	
F Overall height, top of the stack	
G Overall height, steel cab	
M Tilt back angle	

Unit: mm (ft.in)

23.5-25 tires	
Tread	2160 (7'1")
Width over tires	2780 (9'1")
A Wheelbase	3200 (10'6")
B Hinge pin height, max. height	4095 (13'5")
D Ground clearance	455 (1'6")
E Hitch height	1150 (3'9")
F Overall height, top of the stack	3345 (11'0")
G Overall height, steel cab	3410 (11'2")
M Tilt back angle	46°

Measured with 23.5-25 tires

	Buckets	I	II
H. Dumping clearance, max. height and 45° dump angle**		2900 (9'6")	
Reach at 2130 mm (7') cut edge clearance and 45° dump angle			
J. Reach at max. height and 45° dump angle**		1170 (3'10")	
Reach with arm horizontal and bucket level			
K. Operating height (fully raised)		5520 (18'1")	
L. Overall length		7965 (26'2")	
Turning radius*		6470 (21'3")	
Digging depth	0°	50 (2.0")	
	10°	315 (12.4")	

* Bucket at carry, outside corner of bucket

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA420-3 (China source)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I General-purpose bucket with teeth	3.5 (4.6)	3.0 (3.9)	3065 (10'1")		19940 (43,960)
II General-purpose bucket with bolt-on cutting edges; (Loading and excavating of soil, sand and variety of other commonly handled materials.)		2.3 (3.0)			

Tires/Buckets	Operating weight kg (lb)		Static tipping load kg (lb)			
	I	II	Straight		40° full turn	
			I	II	I	II
23.5-25-16PR (L3)	18230 (40,190)		13640 (30,070)		11840 (26,100)	

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.

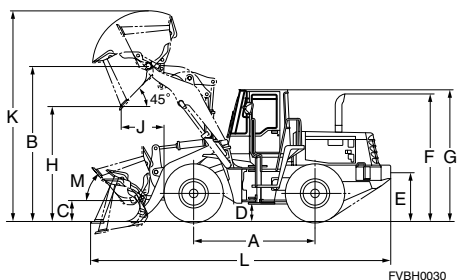
Weight Changes

Change in operating weight kg (lb)

Change in tipping load kg (lb)
Straight Full turn

Steel ROPS cab

-310 (-683)



- Tread
- Width over tires
- A Wheelbase
- B Hinge pin height, max. height
- C Hinge pin height, carry position
- D Ground clearance
- E Hitch height
- F Overall height, top of the stack
- G Overall height, steel cab
- M Tilt back angle

Unit: mm (ft.in)

- 23.5-25 tires
- 2200 (7'3")
- 2820 (9'3")
- 3300 (10'10")
- 4250 (13'11")
- 460 (1'6")
- 1175 (3'10")
- 3340 (11'0")
- 3400 (11'2")
- 46°

Measured with 23.5-25 tires

	Buckets	I	II
H. Dumping clearance, max. height and 45° dump angle**		3000 (9'10")	
Reach at 2130 mm (7') cut edge clearance and 45° dump angle			
J. Reach at max. height and 45° dump angle**		1210 (4'0")	
Reach with arm horizontal and bucket level			
K. Operating height (fully raised)		5815 (19'1")	
L. Overall length		8315 (27'3")	
Turning radius*		6695 (22'0")	
Digging depth	0°	165 (6.5")	
	10°	390 (1'3")	

* Bucket at carry, outside corner of bucket

** At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

WA470-3 (China source)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I General-purpose bucket with teeth	3.9 (5.1)	3.3 (4.3)	3200 (10'6")		21000 (46,300)
II General-purpose bucket with bolt-on cutting edges; (Loading and excavating of soil, sand and variety of other commonly handled materials.)	4.2 (5.5)	3.5 (4.6)			

Tires/Buckets	Operating weight kg (lb)		Static tipping load kg (lb)			
	I	II	Straight		40° full turn	
			I	II	I	II
26.5-25-20PR (L3)	21640 (47,710)		16750 (36,930)		14520 (32,010)	

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.

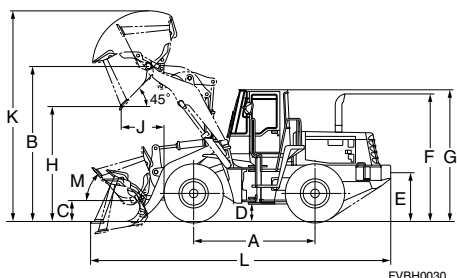
Weight Changes

Change in operating weight kg (lb)

Change in tipping load kg (lb)
Straight Full turn

Steel ROPS cab

-310 (-683)



- Tread
- Width over tires
- A Wheelbase
- B Hinge pin height, max. height
- C Hinge pin height, carry position
- D Ground clearance
- E Hitch height
- F Overall height, top of the stack
- G Overall height, steel cab
- M Tilt back angle

Unit: mm (ft.in)

- 26.5-25 tires
- 2300 (7'7")
- 3010 (9'11")
- 3400 (11'2")
- 4355 (14'3")
- 525 (1'9")
- 1240 (4'1")
- 3470 (11'5")
- 3490 (11'5")
- 49°

Measured with 26.5-25 tires

	Buckets	I	II
H. Dumping clearance, max. height and 45° dump angle*		3065 (10'1")	
Reach at 2130 mm (7') cut edge clearance and 45° dump angle			
J. Reach at max. height and 45° dump angle*		1280 (4'2")	
Reach with arm horizontal and bucket level			
K. Operating height (fully raised)		6000 (19'8")	
L. Overall length		8810 (28'11")	
Loader clearance circle (bucket at carry, outside corner of bucket)		13920 (45'8")	
Digging depth	0°	95 (3.7")	
	10°	360 (1'2")	

* At the end of teeth or B.O.C.

Performance Data Dimensions

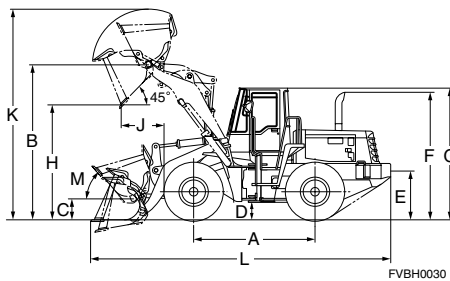
WHEEL LOADERS

WA500-3 (China source)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (straight edge) with teeth	4.5 (5.9)	4.1 (5.4)	3460 (11'4")	2570 (5670)	27000 (59,520)
II General-purpose bucket with bolt-on cutting edges; (Loading and excavating of soil, sand and variety of other commonly handled materials.)	5.0 (6.5)	4.3 (5.6)	3400 (11'2")	2760 (6080)	23700 (52250)
III Excavating bucket (spade nose)	4.3 (5.6)	3.7 (4.8)	3400 (11'2")		21780 (48,020)

	Operating weight kg (lb)		Static tipping load kg (lb)			
			Straight		40° full turn	
Tires/Buckets	I	II	I	II	I	II
26.5-25-24PR (L3)	27600 (60,850)					

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
- Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator.
- Machine stability and operating weight are affected by counterweight, tire size and other attachments.
Apply the following weight changes to operating weight and static tipping load.



Tread	
Width over tires	
A Wheelbase	3600 (11'10")
B Hinge pin height, max. height	4455 (14'7")
C Hinge pin height, carry position	
D Ground clearance	405 (1'4")
E Hitch height	1195 (3'11")
F Overall height, top of the stack	3590 (11'9")
G Overall height, ROPS and cab	3815 (12'6")
M Tilt back angle	50°

Unit: mm (ft.in)

26.5-25 tires

2400 (7'10")

3090 (10'2")

3600 (11'10")

4455 (14'7")

405 (1'4")

1195 (3'11")

3590 (11'9")

3815 (12'6")

50°

Measured with 26.5-25 tires

	Buckets	I	II
H. Dumping clearance, max. height and 45° dump angle*		3290 (10'10")	
Reach at 2130 mm (7") cut edge clearance and 45° dump angle			
J. Reach at max. height and 45° dump angle*		1320 (4'4")	
Reach with arm horizontal and bucket level			
K. Operating height (fully raised)		6070 (19'11")	
L. Overall length		9055 (29'8")	
Loader clearance circle (bucket at carry, outside corner of bucket)		14760 (48'5")	
Digging depth	0°	60 (2.4")	
	10°	350 (1'2")	

* At the end of teeth or B.O.C.

Performance Data Dimensions

WHEEL LOADERS

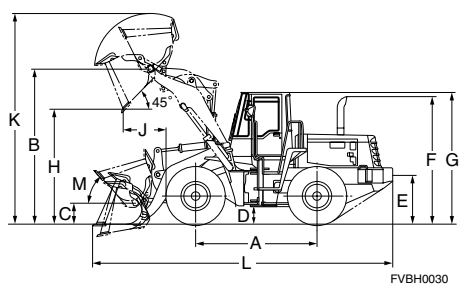
WA600-3 (China source)

	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)	Bucket width* mm (ft.in)	Bucket weight kg (lb)	Breakout force kgf (lb)
I Excavating bucket (spade nose) with teeth	6.1 (8.0)	5.1 (6.7)	3685 (12'1")	4305 (9490)	37600 (82,890)
II Excavating bucket (straight edge) with teeth	6.1 (8.0)	5.1 (6.7)	3685 (12'1")	4250 (9370)	43750 (96,450)

* Excluding tire protectors

Tires/Buckets	Operating weight kg (lb)		Static tipping load kg (lb)			
	I	II	Straight		40° full turn	
			I	II	I	II
35/65-33-30PR (L4)	44500 (98,100)	44445 (97,980)				

- All dimensions, weights and performance values based on SAE J-732c and J-742b standards.
 - Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator.
 - Machine stability and operating weight are affected by counterweight, tire size and other attachments.
- Apply the following weight changes to operating weight and static tipping load.



	Unit: mm (ft.in)
Tread	35/65-33 tires
Width over tires	2650 (8'8")
A Wheelbase	3570 (9'9")
B Hinge pin height, max. height	4100 (13'5")
C Hinge pin height, carry position	5155 (14'3")
D Ground clearance	670 (2'2")
E Hitch height	495 (1'7")
F Overall height, top of the stack	1295 (4'3")
G Overall height, ROPS and cab	4125 (13'6")
M Tilt back angle	4250 (11'11")
	49.5°

Measured with 35/65-33 tires

	Buckets	I	II
H. Dumping clearance, max. height and 45° dump angle*		3620 (11'11")	
Reach at 2130 mm (7') cut edge clearance and 45° dump angle			
J. Reach at max. height and 45° dump angle*		1800 (5'11")	
Reach with arm horizontal and bucket level			
K. Operating height (fully raised)		5155 (16'11")	
L. Overall length		10710 (35'2")	
Loader clearance circle (bucket at carry, outside corner of bucket)		16520 (54'2")	
Digging depth	0°	50 (2.0")	
	10°	360 (1'2")	

* At the end of teeth or B.O.C.

USE OF TRAVEL TIME CHARTS

The following explanation applies to travel time charts for Wheel Loaders.

1) How to read graph:

The vertical axis indicates the distance and the horizontal axis indicates the time. First, check the travel resistance of the jobsite. Then, obtain the intersection point of the resistance line and the distance. The value of the horizontal axis at this point is the travel time. This graph does not include the acceleration time.

2) Explanation of travel resistance:

The item indicated by percentage is the travel resistance. The travel resistance is the total of the grade resistance and rolling resistance. The rolling resistance varies with the road condition. Set it to 3.3% usually.

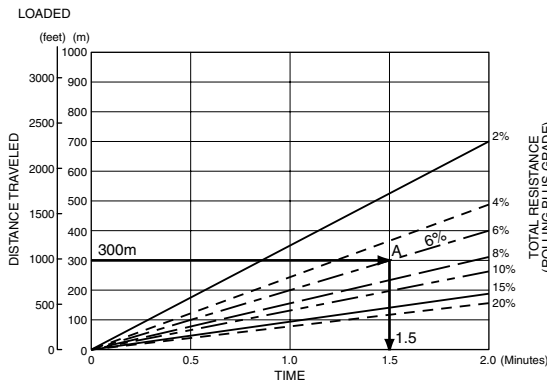
3) Empty and loaded curves:

The empty curve indicates the weight and travel curve of the machine of the ordinary specification. The loaded curve indicates the total of the weight of the empty machine and the rated load.

Example:

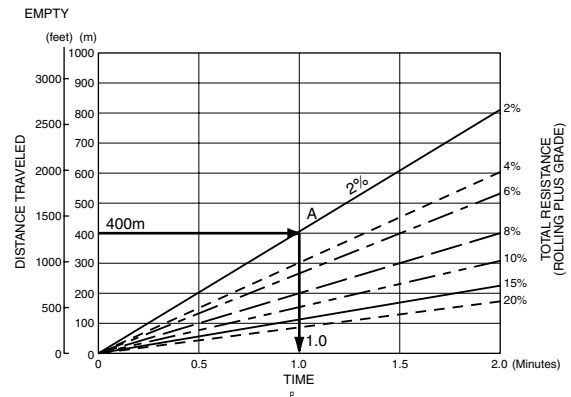
Haul...

Using the graph for the Loaded machine, read from the Travel Distance (one way) scale at 300 m (980 feet) across to the 6% total resistance line (point A). From (point A) read down to the Travel Time (one way) scale to determine haul time = 1.5 minutes.



Return...

Using the graph for the Empty machine, read from the Travel Distance (one way) scale at 400 m (1310 feet) across to the 2% total resistance line (point A). From (point A) read down to the Travel Time (one way) scale to determine haul time = 1.0 minutes.

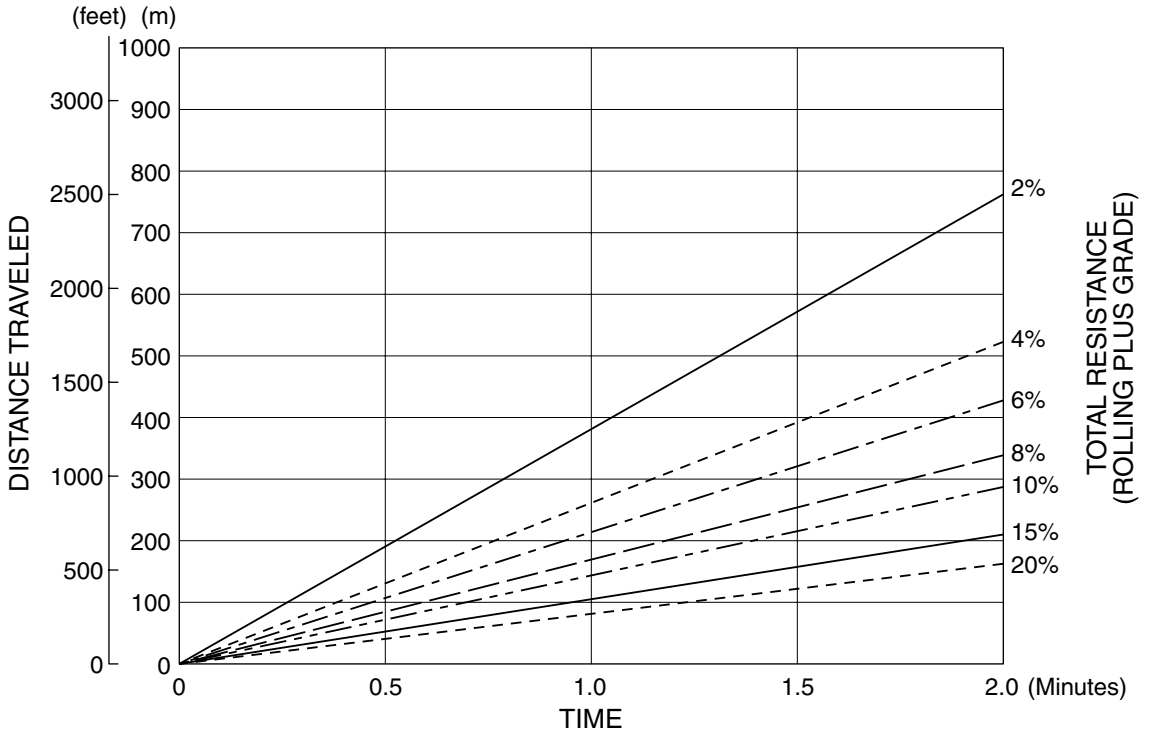


NOTE: Curves assume use of highest operating speed attainable. It is important to consult the tire manufacturer on Ton-Mile-Per-Hour ratings and pressure recommendations.

Performance Curves
Travel Time Charts

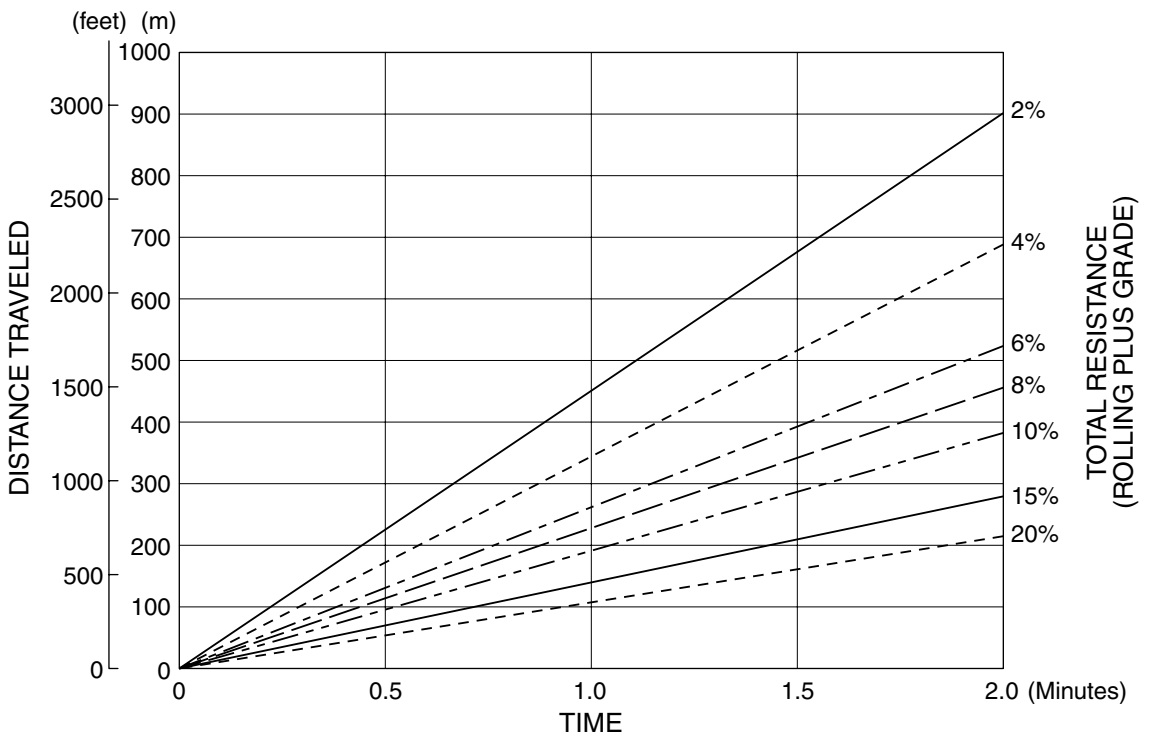
WHEEL LOADERS

WA500-3 LOADED



FVBH0274

WA500-3 EMPTY

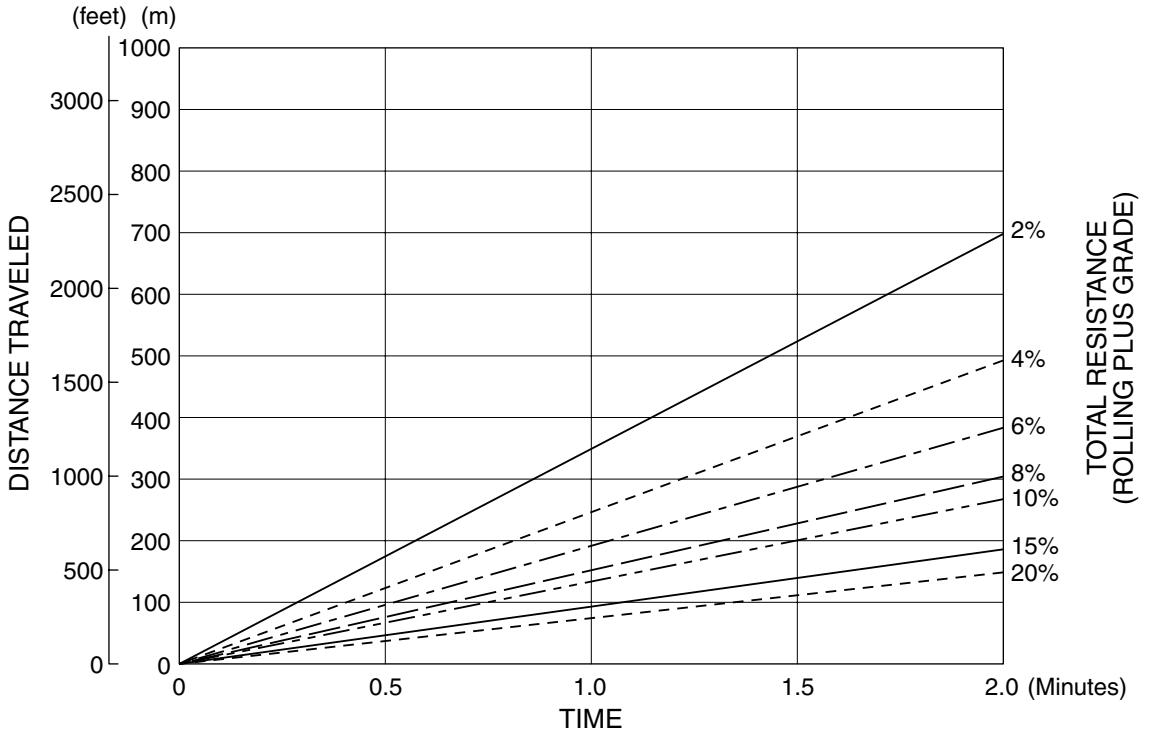


FVBH0273

Performance Curves
Travel Time Charts

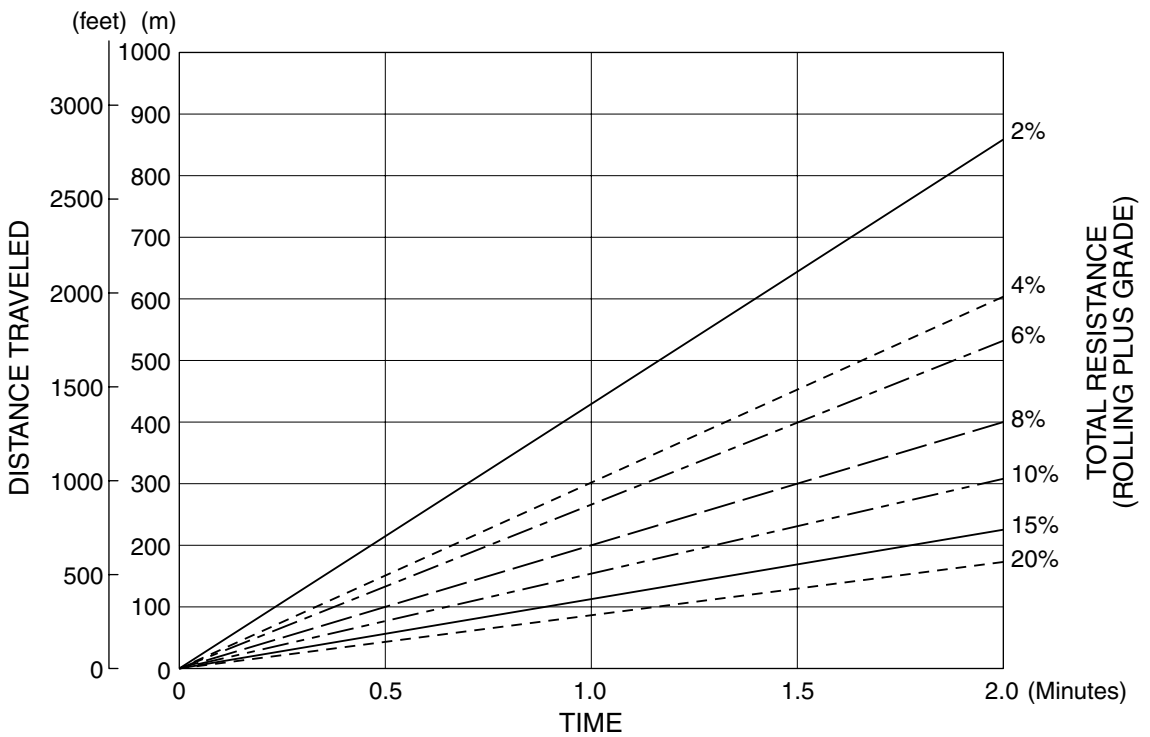
WHEEL LOADERS

WA600-3 LOADED



FVBH0276

WA600-3 EMPTY

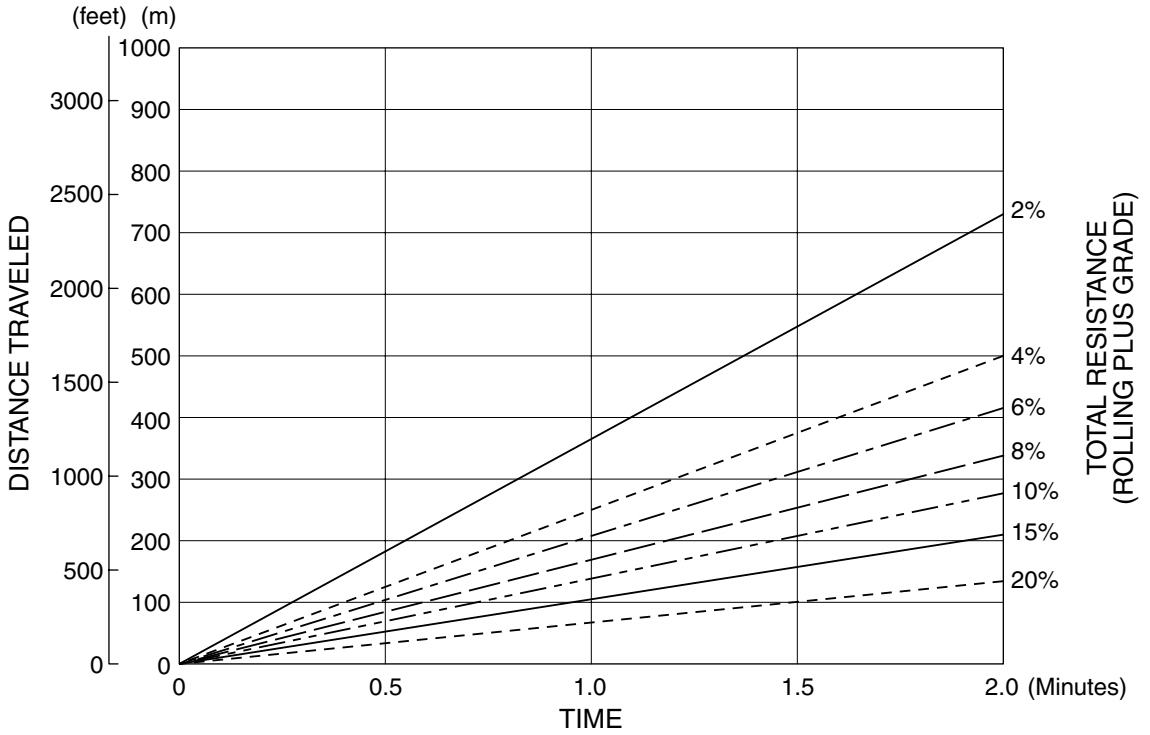


FVBH0275

Performance Curves
Travel Time Charts

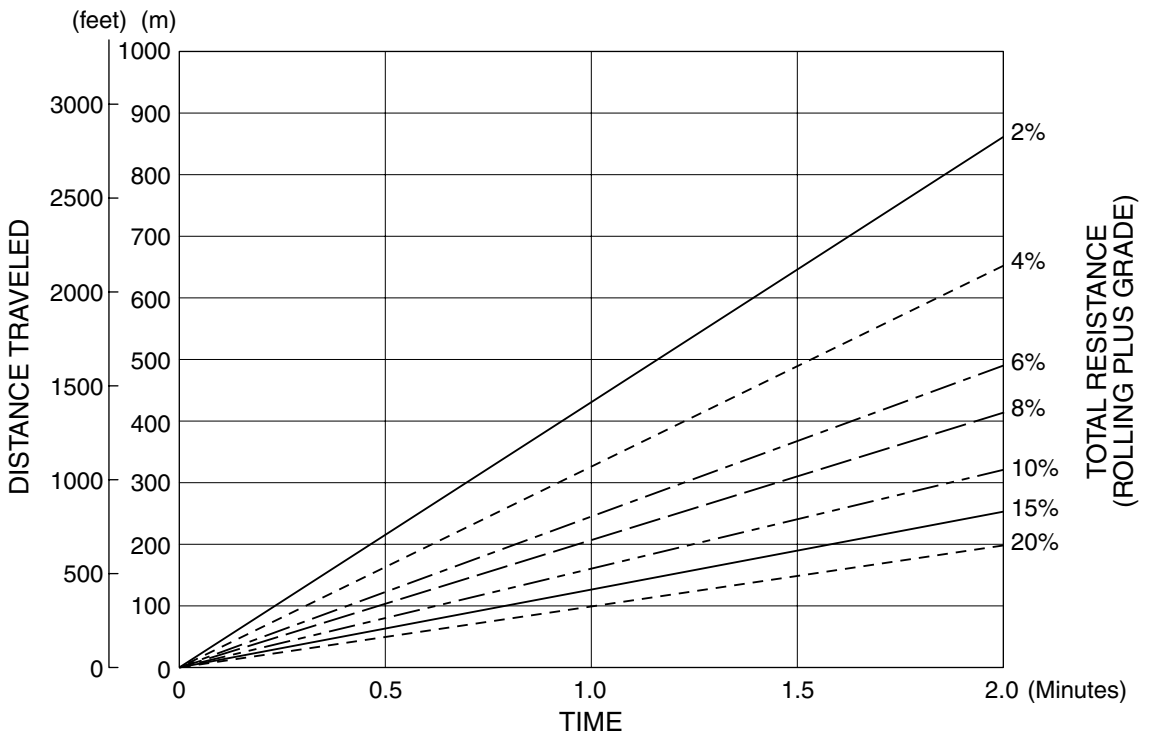
WHEEL LOADERS

WA700-3 LOADED



FVBH0278

WA700-3 EMPTY

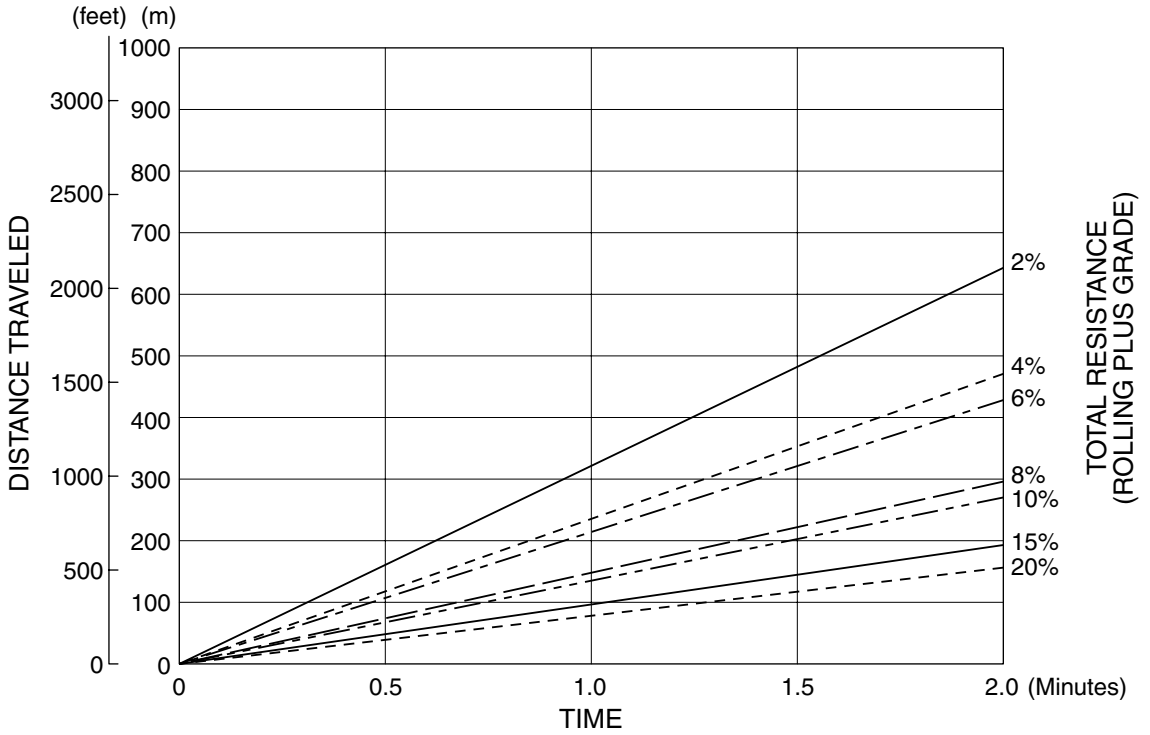


FVBH0277

Performance Curves
Travel Time Charts

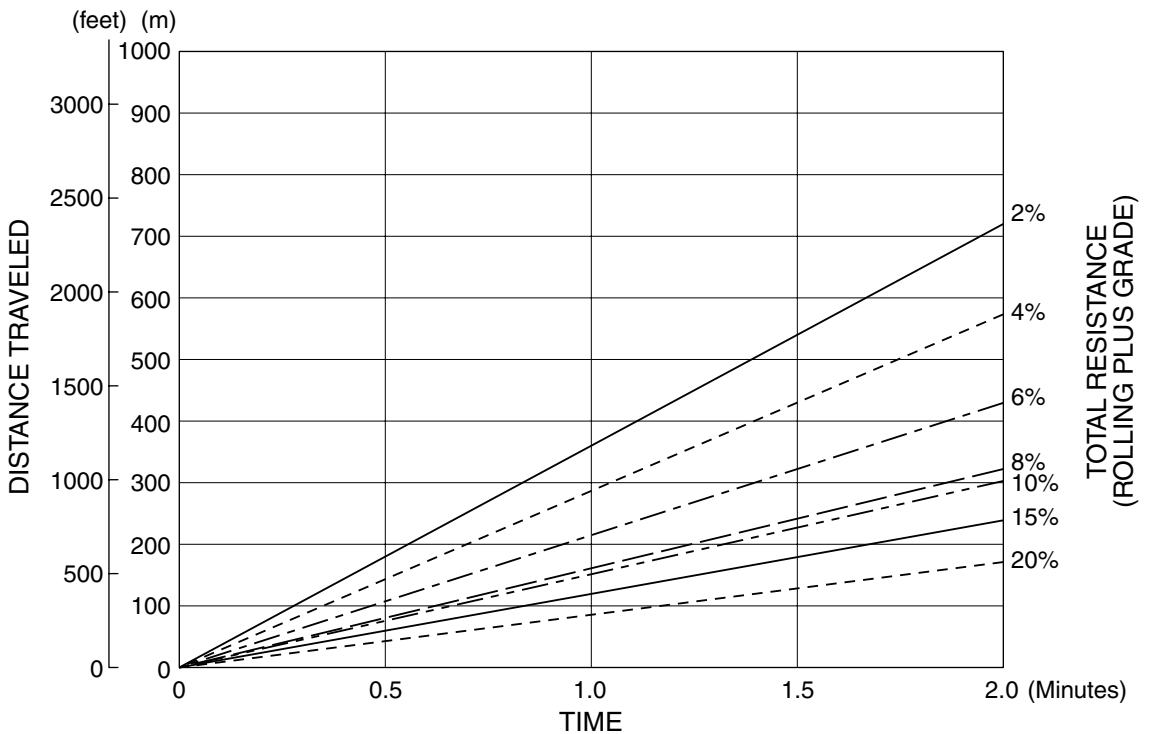
WHEEL LOADERS

WA800-3 LOADED



FVBH0280

WA800-3 EMPTY

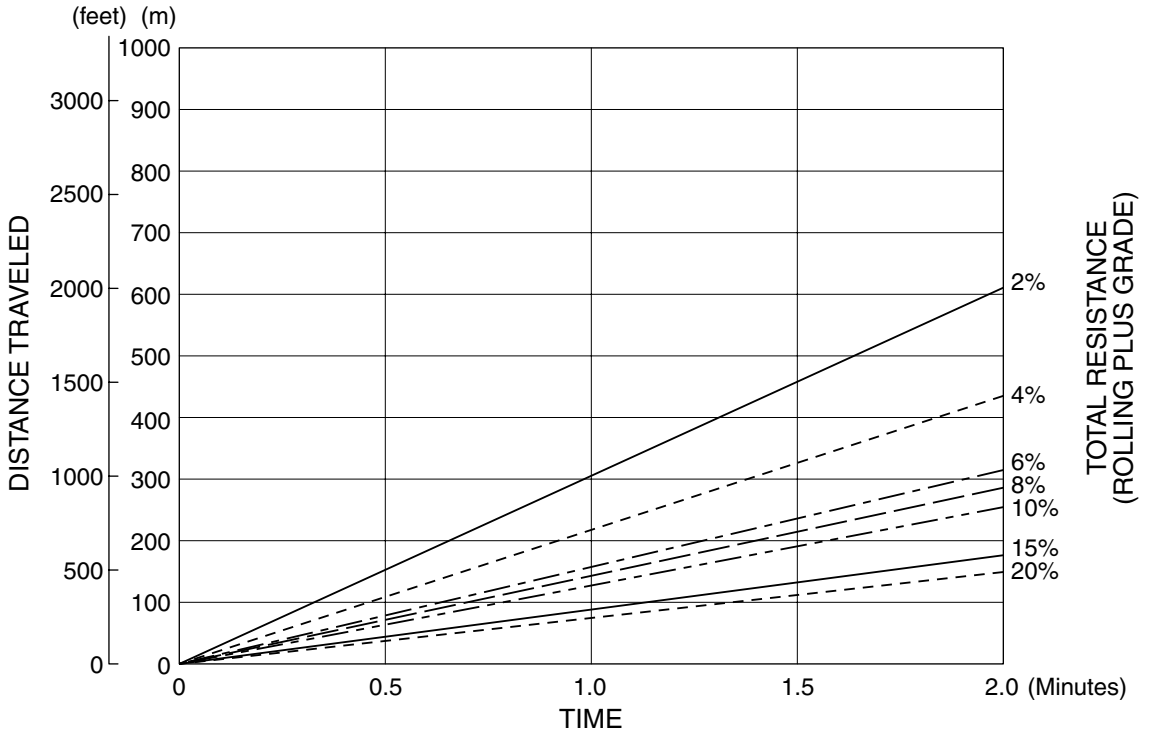


FVBH0279

Performance Curves
Travel Time Charts

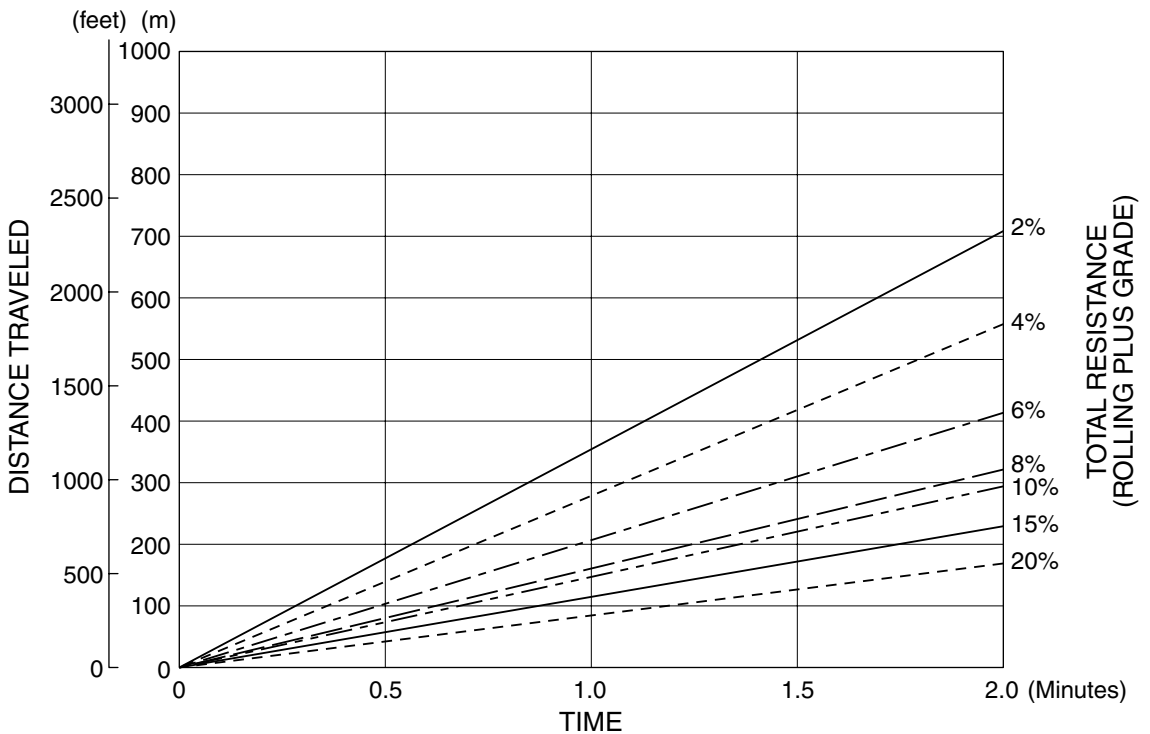
WHEEL LOADERS

WA900-3 LOADED



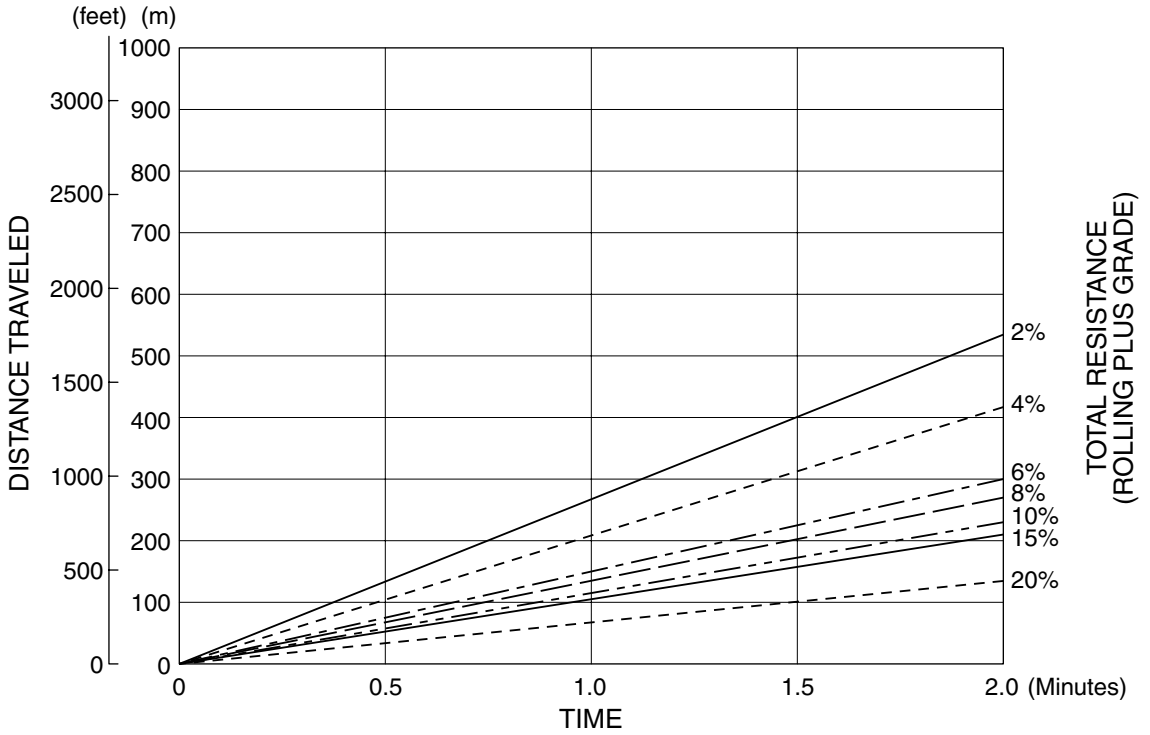
FVBH0282

WA900-3 EMPTY



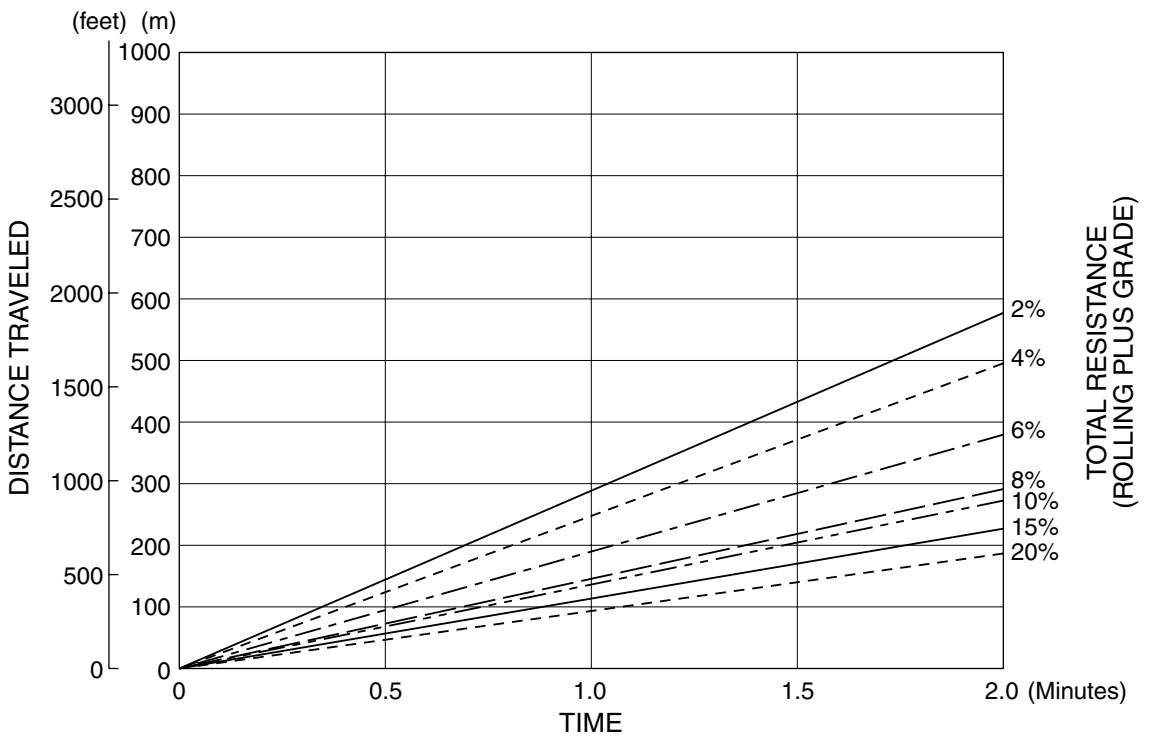
FVBH0281

WA1200-3 LOADED



FVBH0284

WA1200-3 EMPTY



FVBH0283

1. OPERATING WEIGHT

The total mass in kilograms (pounds) of the machine as specified and fully serviced, including a full fuel tank and 80 kg (175 lb) operator.

2. BUCKET CAPACITY (BY SAE)

The bucket capacity of wheel loaders is calculated as follows:

The struck capacity is defined as the volume of material retained in the bucket after a heaped load is struck by drawing a straight edge across the width of bucket with one end of the straight edge resting on the cutting edge and the other end resting on the uppermost portion of the bucket back sheet or spill guard. The struck capacity (V_s) can be expressed by the following equation:

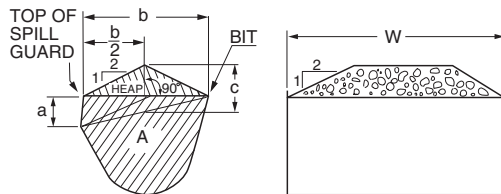
$$V_s = AW - \frac{2}{3} a^2b$$

A = cross sectional area at the center of the bucket, mm^2 (in^2).

W = average inside width of the bucket, mm (in.).

a = height of the spill guard at the center of the bucket normal to the strike line, mm (in.).

b = length of opening at the center of the bucket, mm (in.).



FVBH0009

Using the 2 : 1 angle of repose of the heaped material, the heaped capacity (V_h) is expressed as follow:

$$V_h = V_s + \frac{b^2W}{8} - \frac{b^2}{6} (a+c)$$

Where c is the length on a normal to the strike line. On one end it is terminated by the assumed crest of the material.

On the other end it is terminated by the intersection with a line from the bit or cutting edge tip to the base of the spill guard.

This method applies primarily to irregular buckets having parallel sides and a cutting edge parallel to the edge of the spill guard or back sheet. Moderately clipped spill guard corners will introduce no appreciable errors.

3. BUCKET LOAD

The bucket load should not exceed 50% of the TIPPING LOAD for wheel loaders or 35% of the TIPPING LOAD for crawler loaders, and will be considered as operating under the following conditions:

1. Lifting ability of the machine in all bucket positions to be no less than the specified operating load.
2. Bucket attachment of specified size and type.
3. Maximum travel speed of 6 km/h (3.7 mph).
4. Operating surface.

(a) Shall be hard, moderately smooth and level for wheel loaders.

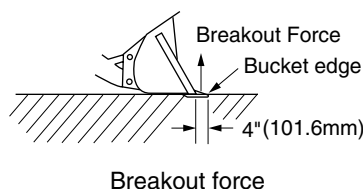
(b) General operating conditions of crawler loaders are such that they normally are not operating on hard, moderately smooth level surface.

For this reason, the rating on crawler loaders is set at the lower figure of 35%.

4. BREAKOUT FORCE

Breakout force in kilograms (and kilo-Newton or pounds) is the maximum sustained vertical upward force exerted 100 mm (4 in) behind the tip of the bucket cutting edge and is achieved through the ability to lift and/or roll-back the bucket about the specified pivot point under the following conditions:

- (a) Machine with transmission in neutral.
- (b) All brakes released.
- (c) Unit at standard operating weight, rear of machine not tied down.



Breakout force

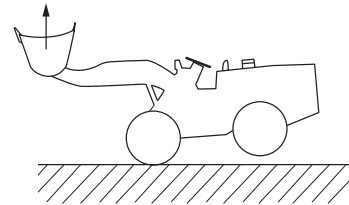
FVBH0010

- (d) Bottom of cutting edge parallel to and not more than 25 mm (1 in) above or below the ground line.
- (e) When bucket circuit is used, the pivot point must be specified as the bucket hinge pin, and the unit blocked under the bucket hinge pin pivot point in order to minimize linkage movement.
- (f) When the lift circuit is used, the pivot point must be specified as the lift arm hinge pin.
Wheel loaders shall have front axle blocked to eliminate change in position of pivot pins due to tire deflection.
- (g) If both circuits are used simultaneously, the dominating pivot point listed in (e) or (f) must be specified.
- (h) If the circuit used causes the rear of the machine to leave the ground then the vertical force value required to raise the rear of the machine is the breakout force.
- (i) For irregular shaped buckets, the tip of the bucket cutting edge, referred to above shall mean the farthest forward point of the cutting edge.

5. STATIC TIPPING LOAD

The minimum mass in kilograms (pounds) at the center of gravity of the SAE rated load in the bucket which will rotate the machine to a point where, on the crawler units, the front track rollers are clear of the track and, on wheel loaders, the rear wheels are clear of the ground under the following conditions:

- (a) Maximum bucket rollback.
- (b) Center of gravity of load at the maximum forward position in the raising cycle.
- (c) Machine at operating weight and equipment as specified.
Articulated steer loader shall be in full turn position (specify angle).



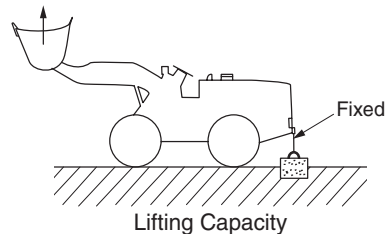
Tipping Load

FVBH0011

6. LIFTING CAPACITY

The maximum mass in kilograms (pounds) at the center of gravity of SAE rated load in the bucket that can be lifted at a specified height with the bucket positioned to retain maximum load under the following conditions:

- (a) Machine with rear end tied down.
- (b) Machine at operating weight and equipment as specified.



Lifting Capacity

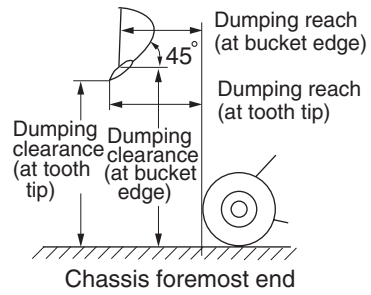
FVBH0012

7. HYDRAULIC CYCLE TIMES

- Raising Time — The time in seconds required to raise the bucket, rolled back, from the ground level position to full height with the specified SAE operating load.
- Lowering time — The time in seconds required to lower the empty bucket from the full height to a level position on the ground.
- Dump Time — The time in seconds required to move the bucket from the load carrying position at maximum height to the full dump position while dumping the specified SAE operating load.

8. DUMPING CLEARANCE AND REACH

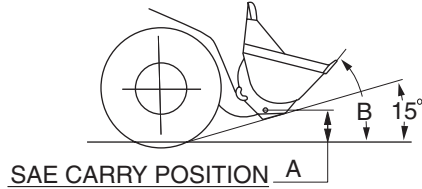
- Dumping clearance — The vertical distance in millimeters (inches) from the ground to the lowest point of the cutting edge with the bucket hinge pin at maximum height and the bucket at a 45 degree dump angle. If the dump angle is less than 45 degree, specify the angle.
- Dumping reach — The horizontal distance in millimeters (inches) from the foremost point on the machine (including tires, tracks, or loader frames) to the rearmost point of the bucket cutting edge with bucket hinge pin at maximum height and bucket at a 45 degree dump angle. If the dump angle is less than 45 degree, specify the angle.



FVBH0013

9. CARRY POSITION

The vertical distance from the ground in millimeters (inches) to the centerline of the bucket hinge pin, with the angle of approach at 15 degree.



- A: Carry height
- B: Mex tilt-back angle (At carry position)

FVBH0014

**Attachment
Availability**

WHEEL LOADERS

Unit: m³ (cu.yd)

		WA50-6	WA120-3	WA150-6	WA150-5	WA180-3	WA200-6
GENERAL PURPOSE BUCKET (STOCKPILE)	W/B.O.C	0.6 (0.8)	1.4 (1.85)	1.5 (2.0)	1.5 (2.0)	1.7 (2.25)	2.0 (2.6)
	W/teeth		1.3 (1.7)	1.4 (1.8)		1.6 (2.1)	2.0 (2.6)
	W/segment edge						
GENERAL PURPOSE BUCKET (EXCAVATING)	W/B.O.C		1.2 (1.55)	1.3 (1.7)	1.3 (1.7)	1.5 (1.95)	1.7 (2.2)
	W/teeth		1.2 (1.55)	1.2 (1.6)	1.3 (1.7)	1.5 (1.95)	1.7 (2.2)
	W/segment edge						
SPADE NOSE ROCK BUCKET	W/tip type teeth						
LIGHT MATERIAL BUCKET	W/B.O.C		1.7 (2.25)	1.7 (2.2)	1.7 (2.2)	2.2 (2.9)	2.4 (3.1)
	BARE		1.6 (2.1)		1.6 (2.1)	2.1 (2.75)	
LIGHT MATERIAL BUCKET	For multi-coupler						
MULTI-PURPOSE BUCKET			1.0 (1.3)			1.2 (1.65)	
GENERAL PURPOSE BUCKET (STOCKPILE) FOR HIGH LIFT BOOM	W/B.O.C		1.2 (1.55)		1.3 (1.7)	1.5 (1.95)	1.7 (2.2)
	W/teeth		1.2 (1.55)		1.3 (1.7)	1.5 (1.95)	1.7 (2.2)
GENERAL PURPOSE BUCKET FOR SUPER HIGH LIFT BOOM (STOCKPILE)	W/B.O.C		1.0 (1.3)				
	W/teeth		1.0 (1.3)				
HIGH LIFT BOOM			○	○	○	○	○
SUPER-HIGH LIFT BOOM			○				
B.O.C (BOLT-ON CUTTING EDGE)		○	○	○	○	○	○
B.O.C, LONG LIFE							
SEGMENT EDGE							
TEETH	Bolt-on teeth		○	○	○	○	○
	Bolt-on teeth for limestone						
	Bolt-on teeth for long life						
	Tip type teeth		○	○	○	○	○
LOG GRAPPLE	Pin on type						
LUMBER GRAPPLE			○			○**	
DUMPING FORK	Pin-on type		○				
	Multi-coupler						
LUMBER FORK	Pin-on type		○			○	
	Multi-coupler		○				
EXTENSION FORK							
MULTI-COUPLER	Mech. type						
	Hyd. type						
COUNTERWEIGHT	Additional		○	○	○	○	○
	For log & fork						○
BUCKET CYLINDER (LARGE SIZED)					○		
BUCKET CYLINDER	For high lift				○		

*: Install the 0.7 m³ (0.9 cu.yd) general purpose bucket (stockpile).

** : Install the additional counterweight.

**Attachment
Availability**

WHEEL LOADERS

Unit: m³ (cu.yd)

		WA200-5	WA200PZ-6	WA250-6	WA250-5	WA250PZ-6	WA250-3
GENERAL PURPOSE BUCKET (STOCKPILE)	W/B.O.C	2.0 (2.6)	2.0 (2.6)	2.3 (3.0)	2.3 (3.0)	2.2 (2.9)	2.1 (2.75)
	W/teeth	1.9 (2.5)	1.9 (2.5)	2.1 (2.75)	2.1 (2.75)		1.9 (2.5)
	W/segment edge						
GENERAL PURPOSE BUCKET (EXCAVATING)	W/B.O.C	1.7 (2.2)		1.9 (2.5)	1.9 (2.5)		1.9 (2.5)
	W/teeth	1.6 (2.1)		1.8 (2.4)	1.8 (2.35)		1.8 (2.35)
	W/segment edge						
SPADE NOSE ROCK BUCKET	W/tip type teeth						
LIGHT MATERIAL BUCKET	W/B.O.C	2.4 (3.1)		2.7 (3.5)	2.7 (3.35)		2.7 (3.35)
	W/teeth						
	BARE	2.3 (3.0)		2.5 (3.25)	2.5 (3.25)		2.5 (3.25)
LIGHT MATERIAL BUCKET	For multi-coupler						
MULTI-PURPOSE BUCKET							
GENERAL PURPOSE BUCKET (STOCKPILE) FOR HIGH LIFT BOOM	W/B.O.C	1.7 (2.2)		1.9 (2.5)	1.9 (2.5)		1.9 (2.5)
	W/teeth	1.7 (2.2)		1.8 (2.35)	1.8 (2.35)		1.8 (2.35)
GENERAL PURPOSE BUCKET FOR SUPER HIGH LIFT BOOM (STOCKPILE)	W/B.O.C						
	W/teeth						1.5 (1.95)
HIGH LIFT BOOM		○		○	○		○
SUPER-HIGH LIFT BOOM							
B.O.C (BOLT-ON CUTTING EDGE)		○	○	○	○	○	○
B.O.C, LONG LIFE							
SEGMENT EDGE							
TEETH	Bolt-on teeth	○	○	○	○	○	○
	Bolt-on teeth for limestone						
	Bolt-on teeth for long life						
	Tip type teeth	○	○	○	○	○	○
LOG GRAPPLE	Pin on type			○	○		○
LUMBER GRAPPLE					○		○
DUMPING FORK	Pin-on type						○
	Multi-coupler						
LUMBER FORK	Pin-on type	○			○		○
	Multi-coupler						
EXTENSION FORK							
QUICK-COUPLER	Mech. type						
	Hyd. type		(STD)		○	(STD)	○
COUNTERWEIGHT	Additional	○	(STD)	○	○	(STD)	○
	For log & fork			○			
BUCKET CYLINDER (LARGE SIZED)							
BUCKET CYLINDER	For high lift				○		
PALLET FORK	W/coupler		○			○	

**Attachment
Availability**

WHEEL LOADERS

Unit: m³ (cu.yd)

		WA320-6	WA320-5	WA320PZ-6	WA320-3	WA320-3 CUSTOM	WA380-6
GENERAL PURPOSE BUCKET (STOCKPILE)	W/B.O.C	2.8 [○] (2.7)	2.8 [○] (3.7)	2.7 [○] (3.5)	2.7 [○] (3.55)	2.7 [○] (3.55)	3.3 [○] (4.3)
	W/teeth	2.6 [○] (3.4)	2.6 [○] (3.25)		2.5 [○] (3.25)	2.5 [○] (3.25)	3.1 [○] (4.1)
	W/segment edge				2.7 [○] (3.55)		
GENERAL PURPOSE BUCKET (EXCAVATING)	W/B.O.C	2.3 [○] (3.0)	2.3 [○] (3.0)		2.3 [○] (3.0)		2.9 [○] (3.8)
	W/teeth	2.1 [○] (2.7)	2.1 [○] (2.75)		2.1 [○] (2.75)		2.7 [○] (3.5)
	W/segment edge				2.3 [○] (3.0)		2.9 [○] (3.8)
SPADE NOSE ROCK BUCKET	W/tip type teeth						
LIGHT MATERIAL BUCKET	W/B.O.C	3.2 [○] (4.2)	3.2 [○] (4.2)		3.2 [○] (4.2)		4.0 [○] (5.2)
	W/teeth	3.0 [○] (3.9)					
	BARE		3.0 [○] (3.9)		3.0 [○] (3.9)		
LIGHT MATERIAL BUCKET	For multi- coupler		2.5 [○] (3.25)		2.5 [○] (3.25)		
GENERAL PURPOSE BUCKET (STOCKPILE) FOR HIGH LIFT BOOM	W/B.O.C		2.4 [○] (3.0)		2.3 [○] (3.0)		2.9 [○] (3.8)
	W/teeth		2.2 [○] (2.75)		2.1 [○] (2.75)		2.7 [○] (3.5)
GENERAL PURPOSE BUCKET FOR SUPER HIGH LIFT BOOM (STOCKPILE)	W/B.O.C				2.0 [○] (2.6)		
	W/teeth						
HIGH LIFT BOOM		○	○		○		○
SUPER-HIGH LIFT BOOM							
B.O.C (BOLT ON CUTTING EDGE)		○	○	○	○	○	○
B.O.C, LONG LIFE			○		○	○	
SEGMENT EDGE			○		○	○	○
TEETH	Bolt-on teeth	○	○	○	○	○	○
	Bolt-on teeth for limestone						
	Bolt-on teeth for long life						
	Tip type teeth	○	○	○	○	○	○
LOG GRAPPLE	Pin on type	○	○		○	○	○
LUMBER GRAPPLE			○		○		
DUMPING FORK	Pin-on type		○		○	○	
	Multi-coupler						
LUMBER FORK	Pin-on type		○		○	○	
	Multi-coupler						
EXTENSION FORK							
QUICK-COUPLER	Mech. type						
	Hyd. type			○ (STD)			
COUNTERWEIGHT	Additional	○	○		○	○	○
	For log & fork		○		○		○
BUCKET CYLINDER (LARGE SIZED)	For log & fork		○				
BUCKET CYLINDER	For high lift		○				
PALLET FORK	W/coupler			○			

**Attachment
Availability**

WHEEL LOADERS

Unit: m³ (cu.yd)

		WA380-5	WA380-3				
GENERAL PURPOSE BUCKET (STOCKPILE)	W/B.O.C	3.3 (4.3)	3.2 (4.2)				
	W/teeth	3.1 (4.1)	3.0 (3.9)				
	W/segment edge		3.2 (4.2)				
GENERAL PURPOSE BUCKET (EXCAVATING)	W/B.O.C	2.9 (3.8)	2.8 (3.65)				
	W/teeth	2.7 (3.5)	2.6 (3.4)				
	W/segment edge	2.9 (3.8)	2.8 (3.65)				
SPADE NOSE ROCK BUCKET	W/tip type teeth						
LIGHT MATERIAL BUCKET	W/B.O.C	4.0 (5.2)	4.0 (5.25)				
	W/teeth						
	BARE		3.8 (4.95)				
LIGHT MATERIAL BUCKET	For multi- coupler		3.1 (4.0)				
GENERAL PURPOSE BUCKET (STOCKPILE) FOR HIGH LIFT BOOM	W/B.O.C	2.9 (3.8)	2.8 (3.65)				
	W/teeth	2.7 (3.5)	2.6 (3.4)				
GENERAL PURPOSE BUCKET FOR SUPER HIGH LIFT BOOM (STOCKPILE)	W/B.O.C						
	W/teeth						
HIGH LIFT BOOM		○	○				
SUPER-HIGH LIFT BOOM							
B.O.C (BOLT ON CUTTING EDGE)		○	○				
B.O.C, LONG LIFE			○				
SEGMENT EDGE		○	○				
TEETH	Bolt-on teeth	○	○				
	Bolt-on teeth for limestone		○				
	Bolt-on teeth for long life		○				
	Tip type teeth		○				
LOG GRAPPLE	Pin on type	○	○				
LUMBER GRAPPLE							
DUMPING FORK	Pin-on type	○	○				
	Multi-coupler						
LUMBER FORK	Pin-on type	○	○				
	Multi-coupler						
EXTENSION FORK							
MULTI-COUPLER	Mech. type						
	Hyd. type						
COUNTERWEIGHT	Additional	○	○				
	For log & fork	○	○				
BUCKET CYLINDER (LARGE SIZED)	For log & fork	○					
BUCKET CYLINDER	For high lift	○	○				

Attachment Availability

WHEEL LOADERS

Unit: m³ (cu.yd)

		WA430-6	WA430-5	WA470-6	WA470-5	WA470-3	WA480-6
GENERAL PURPOSE BUCKET (STOCKPILE)	W/B.O.C	○ 3.5 (4.6)	○ 3.7 (4.8)	○ 4.2 (5.5)	○ 4.2 (5.5)	○ 4.2 (5.5)	○ 4.6 (6.0)
	W/teeth	○ 3.3 (4.3)	○ 3.5 (4.6)	○ 3.9 (5.1)	○ 3.9 (5.1)	○ 3.9 (5.1)	○ 4.3 (5.6)
	W/segment edge					○ 4.2 (5.5)	
GENERAL PURPOSE BUCKET (EXCAVATING)	W/B.O.C	○ 3.3 (4.3)	○ 3.3 (4.3)	○ 3.8 (5.0)	○ 3.8 (5.0)	○ 3.8 (4.95)	○ 4.1 (5.4)
	W/teeth	○ 3.1 (4.1)	○ 3.1 (4.1)	○ 3.6 (4.7)	○ 3.6 (4.7)	○ 3.6 (4.7)	○ 3.8 (5.0)
	W/segment edge	○ 3.3 (4.3)		○ 3.8 (5.0)	○ 3.8 (5.0)	○ 3.8 (4.95)	○ 4.1 (5.4)
GENERAL PURPOSE BUCKET FOR HIGH LIFT BOOM (STOCKPILE)	W/B.O.C	○ 3.3 (4.3)	○ 3.3 (4.3)	○ 3.8 (5.0)	○ 3.8 (5.0)	○ 3.8 (4.95)	
	W/teeth	○ 3.1 (4.0)	○ 3.1 (4.0)		○ 3.6 (4.7)	○ 3.6 (4.7)	
	W/O teeth						
GENERAL PURPOSE BUCKET (EXCAVATING) FOR HIGH LIFT STRAIGHT EDGE	W/B.O.C						
	W/teeth						
	W/segment edge						
LOOSE MATERIAL BUCKET	W/B.O.C			○ 4.6 (6.0)	○ 4.6 (6.0)		○ 4.9 (6.4)
	BARE			○ 5.2 (6.8)	○ 4.3 (5.6)		
LIGHT MATERIAL BUCKET	W/B.O.C	○ 4.6 (6.0)	○ 4.6 (6.0)		○ 5.2 (6.8)	○ 5.2 (6.8)	○ 6.1 (8.0)
	BARE				○ 4.9 (6.4)	○ 4.9 (6.4)	
SPADE NOSE ROCK BUCKET (V-EDGE)	W/tip type teeth		○ 3.1 (4.1)		○ 3.6 (4.7)	○ 3.5 (4.6)	
	W/O teeth				○ 3.6 (4.7)	○ 3.5 (4.6)	
SPADE NOSE STOCK PILE	W/ teeth						
SPADE NOSE ROCK BUCKET (V-EDGE) FOR HIGH LIFT BOOM	W/B.O.C						
	W/tip type teeth						
SPADE NOSE ROCK BUCKET (V-EDGE) FOR LOAD & CARRY SPECS, WITH SHORT ARM.	W/O teeth						
	Tip type teeth with Weld-on						
ROCK BUCKET (STRAIGHT EDGE)	W/teeth			○ 3.6 (4.7)			
	W/O teeth						
HEAVY-DUTY BUCKET (SPADE NOSE)	W/teeth bolt on segments						
	W/O teeth						
BUCKET FOR TWO-WAY DUMP	W/B.O.C				○ 3.0 (3.9)		
	W/O teeth				○ 3.0 (3.9)		
COAL BUCKET							
HIGH LIFT BOOM		○	○		○	○	
SHORT BOOM	For load & carry specs.						
	For stone handling specs.						
BOC(BOLT ON CUTTING EDGE)		○	○	○	○	○	
BOC, LONG LIFE			○		○	○	○
SEGMENT EDGE		○	○	○	○	○	○
TEETH	Bolt-on teeth	○	○	○	○	○	○
	Bolt-on teeth for long life		○		○	○	
	Bolt-on teeth for limestone		○		○	○	
	Tip type bolt on	○	○	○	○	○	○
	Tip type teeth for semi-long						
	Tip type weld on				○		
	Tip type weld on (sharp)						
	Tip type teeth for long life						
Tip type teeth for limestone (sharp)							
LOG GRAPPLE		○*8	○*8		○*8	○*8	
LOG-LUMBER FORK							
LOG-LUMBER GRAPPLE							
PIPE GRAPPLE							
ROLLING GUSSET							
COUNTER- WEIGHT	Additional	○	○	○	○	○	○
	For log & fork ATT.	○	○		○	○	
	For high lift boom				○		
	For load & carry specs, with short boom						
	For stone handling specs,with short boom						
BUCKET CYLINDER (LARGE SIZED)	For log & fork						
BUCKET CYLINDER	For high lift		○		○	○	

*8 : Install the counterweight for log & fork attachments.

Attachment Availability

WHEEL LOADERS

Unit: m³ (cu.yd)

		WA480-5	WA500-6	WA500-6R	WA500-3	WA600-6	WA600-6R	WA600-3
GENERAL PURPOSE BUCKET (STOCKPILE)	W/B.O.C	○ 4.6 (6.0)	○ 5.6 (7.3)	○ 5.6 (7.3)	○ 5.0 (6.5)			
	W/teeth	○ 4.3 (5.6)	○ 5.3 (6.9)	○ 5.3 (6.9)	○ 4.7 (6.1)			
	W/segment edge					○ 7.0 (9.2)	○ 7.0 (9.2)	
GENERAL PURPOSE BUCKET (EXCAVATING)	W/B.O.C	○ 4.1 (5.4)	○ 5.2 (6.8)	○ 5.2 (6.8)	○ 4.5 (5.9)			○ 6.4 (8.4)
	W/teeth	○ 3.8 (5.0)	○ 5.0 (6.5)	○ 5.0 (6.5)	○ 4.3 (5.6)	○ 6.5 (8.5)	○ 6.5 (8.5)	○ 6.1 (8.0)
	W/segment edge	○ 4.1 (5.4)	○ 5.2 (6.8)	○ 5.2 (6.8)	○ 4.5 (5.9)			
GENERAL PURPOSE BUCKET FOR HIGH LIFT BOOM (STOCKPILE)	W/B.O.C							
	W/teeth				○ 4.2 (5.5)			○ 5.6 (7.3)
	W/O teeth							○ 5.6 (7.3)
GENERAL PURPOSE BUCKET (EXCAVATING) FOR HIGH LIFT STRAIGHT EDGE	W/B.O.C		○ 4.5 (5.9)	○ 4.5 (5.9)	○ 4.2 (5.5)			
	W/teeth		○ 4.3 (5.6)	○ 4.3 (5.6)	○ 4.0 (5.25)			○ 5.6 (7.3)
	W/segment edge		○ 4.5 (5.9)	○ 4.5 (5.9)	○ 4.2 (5.5)			
LOOSE MATERIAL BUCKET	W/B.O.C	○ 4.9 (6.4)						
	BARE							
LIGHT MATERIAL BUCKET	W/B.O.C	○ 6.1 (8.0)			○ 5.5 (7.15)			
	BARE				○ 5.2 (6.8)			
SPADE NOSE ROCK BUCKET (V-EDGE)	W/tip type teeth				○ 4.3 (5.6)			○ 6.1 (8.0)
	W/O teeth				○ 4.3 (5.6)			○ 6.1 (8.0)
	W/segment edge					○ 6.4 (8.4)	○ 6.4 (8.4)	
SPADE NOSE STOCK PILE	W/teeth							
	W/B.O.C							
SPADE NOSE ROCK BUCKET (V-EDGE) FOR HIGH LIFT BOOM	W/tip type teeth							○ 5.6 (7.3)
	W/O teeth							○ 5.6 (7.3)
SPADE NOSE ROCK BUCKET (V- EDGE) FOR LOAD & CARRY SPECS, WITH SHORT ARM.	Tip type teeth with Weld-on							○ 7.5 (9.8)
ROCK BUCKET (STRAIGHT EDGE)	W/teeth							
	W/O teeth							
HEAVY-DUTY ROCK BUCKET (SPADE NOSE)	W/teeth bolt on segments		○ 5.0 (6.5)	○ 5.0 (6.5)	○ 4.5 (5.9)			
	W/O teeth		○ 4.7 (6.1)	○ 4.7 (6.1)				
COAL BUCKET								○ 11.0(14.4)
HIGH LIFT BOOM			○	○	○*3			○*4
SHORT BOOM						○*9	○*9	
SHORT BOOM	For load & carry specs.	○						○*6
	For stone handling specs.							○
BOC(BOLT ON CUTTING EDGE)			○	○	○	○	○	○
BOC, LONG LIFE		○						
SEGMENT EDGE		○			○	○	○	○
TEETH	Bolt-on teeth		○	○	○			○
	Bolt-on teeth for long life		○					
	Bolt-on teeth for limestone		○					
	Tip type bolt on		○	○	○	○	○	○
	Tip type teeth for semi-long							
	Tip type weld on					○		○
	Tip type weld on (sharp)		○					
	Tip type teeth for long life							
Tip type teeth for limestone (sharp)								
LOG GRAPPLE	○*8				○*8	○	○	
COUNTER- WEIGHT	Additional	○	○	○	○	○	○	○
	For log & fork ATT.	○			○	○	○	○
	For high lift boom	○			○			○
	For load & carry specs, with short boom							○
	For stone handling specs,with short boom							○

*3 : Install the 4.2 m³ (5.5 cu.yd) general purpose bucket and counterweight for high lift boom.

*4 : Install the 5.6 m³ (7.3 cu.yd) general purpose bucket and counterweight for high lift boom.

*5 : Install the 10.0 m³ (13.1 cu.yd) bucket and additional counterweight.

*6 : Install the 7.5 m³ (9.8 cu.yd) spade nose bucket and counterweight for load & carry specs.

*7 : Install the 14.0 m³ (18.3 cu.yd) spade nose bucket and additional counterweight.

*8 : Install the counterweight for log & fork attachments.

*9 : Boom length 3850 mm (12'8")

Attachment Availability

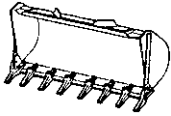
WHEEL LOADERS

Unit: m³ (cu.yd)

		WA700-3	WA800-3E0	WA800-3	WA900-3E0	WA900-3	WA1200-3
GENERAL PURPOSE BUCKET (STOCKPILE)	W/B.O.C						
	W/teeth	○ 9.4 (12.3)					
	W/segment edge	○ 9.4 (12.3)					
GENERAL PURPOSE BUCKET (EXCAVATING)	W/B.O.C						
	W/teeth	○ 8.7 (11.4)					
	W/segment edge	○ 8.7 (11.4)					
GENERAL PURPOSE BUCKET FOR HIGH LIFT BOOM (STOCKPILE)	W/B.O.C						
	W/teeth						
	W/O teeth						
GENERAL PURPOSE BUCKET (EXCAVATING) FOR HIGH LIFT STRAIGHT EDGE	W/B.O.C						
	W/teeth						
	W/segment edge						
LOOSE MATERIAL BUCKET	W/B.O.C						
	BARE						
LIGHT MATERIAL BUCKET	W/B.O.C						
	BARE						
SPADE NOSE ROCK BUCKET (V-EDGE)	W/tip type teeth	○ 8.7 (11.4)	○ 11.0 (14.4)	○ 11.0 (14.4)	○ 13.0 (17.0)	○ 13.0 (17.0)	○ 20.0 (26.2)
	W/O teeth	○ 8.7 (11.4)	○ 11.0 (14.4)	○ 11.0 (14.4)	○ 13.0 (17.0)	○ 13.0 (17.0)	○ 20.0 (26.2)
	W/segment edge						
SPADE NOSE STOCK PILE	W/ teeth		○ 12.3 (16.1)	○ 12.3 (16.1)			
	W/B.O.C		○ 11.0 (14.4)	○ 11.0 (14.4)			
SPADE NOSE ROCK BUCKET (V-EDGE) FOR HIGH LIFT BOOM	W/tip type teeth		○ 10.0 (13.1)	○ 10.0 (13.1)	○ 11.5 (15.0)	○ 11.5 (15.0)	
	W/O teeth						
SPADE NOSE ROCK BUCKET (V- EDGE) FOR LOAD & CARRY SPECS, WITH SHORT ARM.	Tip type teeth with Weld-on		○	○			
ROCK BUCKET (STRAIGHT EDGE)	W/teeth						
	W/O teeth						
HEAVY-DUTY ROCK BUCKET (SPADE NOSE)	W/teeth bolt on segments	○ 8.7 (11.4)	○ 11.0 (14.4)	○ 11.0 (14.4)			
	W/O teeth						
COAL BUCKET				○ 20.5 (26.8)			○ 35.0 (45.8)
HIGH LIFT BOOM			○ ^{*5}	○ ^{*5}	○	○	
SHORT BOOM							
SHORT BOOM	For load & carry specs.		○ ^{*7}	○ ^{*7}			
	For stone handling specs.						
BOC(BOLT ON CUTTING EDGE)							
BOC, LONG LIFE							
SEGMENT EDGE							
TEETH	Bolt-on teeth						
	Bolt-on teeth for long life						
	Bolt-on teeth for limestone						
	Tip type bolt on						
	Tip type teeth for semi-long		○	○	○	○	
	Tip type weld on	○	○	○	○	○	
	Tip type weld on (sharp)	○	○	○	○	○	○
	Tip type teeth for long life				○	○	
Tip type teeth for limestone (sharp)	○	○	○	○	○		
LOG GRAPPLE	○ ^{*8}						
COUN- TER- WEIGHT	Additional	○	○	○			
	For log & fork ATT.	○					
	For high lift boom	○	○	○	○	○	
	For load & carry specs, with short boom		○	○			
	For stone handling specs,with short boom						

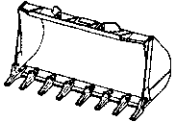
- *3 : Install the 4.2 m³ (5.5 cu.yd) general purpose bucket and counterweight for high lift boom.
- *4 : Install the 5.6 m³ (7.3 cu.yd) general purpose bucket and counterweight for high lift boom.
- *5 : Install the 10.0 m³ (13.1 cu.yd) bucket and additional counterweight.
- *6 : Install the 7.5 m³ (9.8 cu.yd) spade nose bucket and counterweight for load & carry specs.
- *7 : Install the 14.0 m³ (18.3 cu.yd) spade nose bucket and additional counterweight.
- *8 : Install the counterweight for log & fork attachments.

1. General Purpose Bucket (Stockpile):



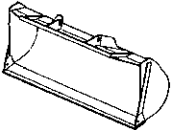
This bucket is used for loading stockpile products, such as crushed rock and construction materials.

2. General Purpose Bucket (Excavating):



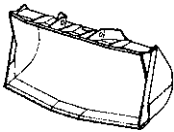
This bucket is used for excavating and loading blasted rock on rock crushing job sites, or for excavating natural ground. It has a flat-blade, straight cutting edge, and provides superior rigidity and wear resistance.

3. Light Material Bucket:



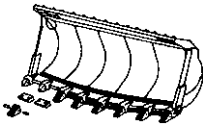
This bucket is used for loading materials with comparatively light specific gravity [below 1.2 t/m³ (2000 lb/cu.yd)], such as snow, fertilizer, and livestock feed. It is based on the general purpose bucket, with a lengthened cutting edge and width to give increased capacity. There is also a large capacity coal bucket for loading loose coal with a specific gravity of below 0.89 t/m³ (1500 lb/cu.yd).

4. Spade-nose Rock Bucket (V-edge type):



This bucket is used for excavating and loading blasted rock on rock crushing job sites. It has a pointed cutting edge, and provides superior rigidity and wear resistance.

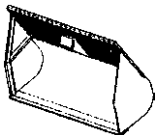
5. Heavy-duty Bucket:



This bucket is used for digging and loading blasted rock on rubble mounds and rock crushing job sites. It has 1-class-larger teeth, and a large, thicker wear plate, large corner edge/side guard, and strengthened spill guard.

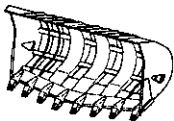
NOTE: When installing this bucket on machines other than the WA700 or WA800, to maintain the stability of the machine, please install an additional counterweight and an orifice (or retainer) for reducing the dumping shock of the bucket .

6. Chip Bucket:



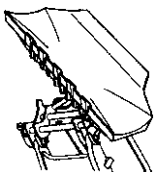
This is a large bucket used for loading loose materials with low specific gravity [below 0.55 t/m³ (930 lb/cu.yd)], such as chips and grain. The back and top are made of a wire mesh to reduce the weight. This bucket can demonstrate its power in bucket operations in the paper-manufacturing business and sawmills.

7. Skeleton Bucket:



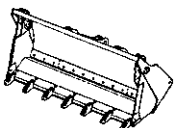
This bucket is used for digging and loading blasted rock on rubble mounds and rock crushing job sites. It has a lattice structure allows it to sift out soil and small rocks, thereby enabling it to select only the rock materials.

8. Side Dump Bucket:

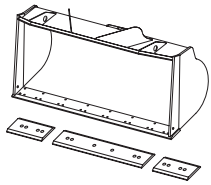


This bucket is capable of dumping its load to the front, to one side, or to both sides. These features make it the choice for jobs like tunneling work, road construction or snow clearance, where narrow operating areas restrict maneuverability.

9. Multi-purpose Bucket:

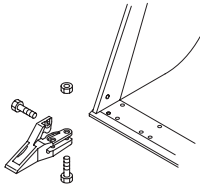


This is a versatile bucket that performs scraping, dozing, scooping and various other tasks in addition to excavating and loading jobs. It is especially suited to leveling work and material transport.

1. Bolt-on Cutting Edge:

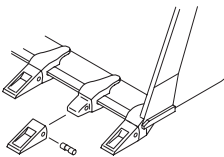
FVBH0217

This edge is made for use in loading loose sand and soil, or for loading stockpiled materials. It is bolted to the leading edge of general purpose buckets and may be detached and reversed. The cutting edges are manufactured from especially heat treated, high tension steel, and since they are reversible, both edges can be used. This effectively doubles their working life.

2. Bolt-on Teeth:

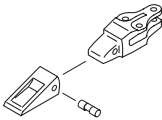
FVBH0218

These teeth are suitable for loading or excavation of piles of earth or sand, blasted rock, and jobs in the field that involve digging into the side of slopes. The special heat treated, tensile strength steel alloy used in their production assures that they will wear and have a long service life.

3. Tip-type Teeth:

FVBH0219

These teeth tips which are attached to an adapter that is welded or bolted to the bucket edge. This means that an interchangeable part, the tooth tip, absorbs most of the wear and protects the actual bucket edge. They give excellent performance when used to handle blasted rock, piles of earth and similarly heavy duty tasks.



FVBH0220

4. Tip-type Teeth (Long Life):

These teeth are larger than the normal teeth and provide an extended wear life, so they are suitable for use on job sites where there is rapid wear.

5. Tip-type Teeth (Sharp):

These teeth are sharper than the normal size teeth. They are suitable for work in handling large lumps of soft rock, or for grubbing work.

6. Bolt-on Teeth or Tip-type Teeth for Limestone:

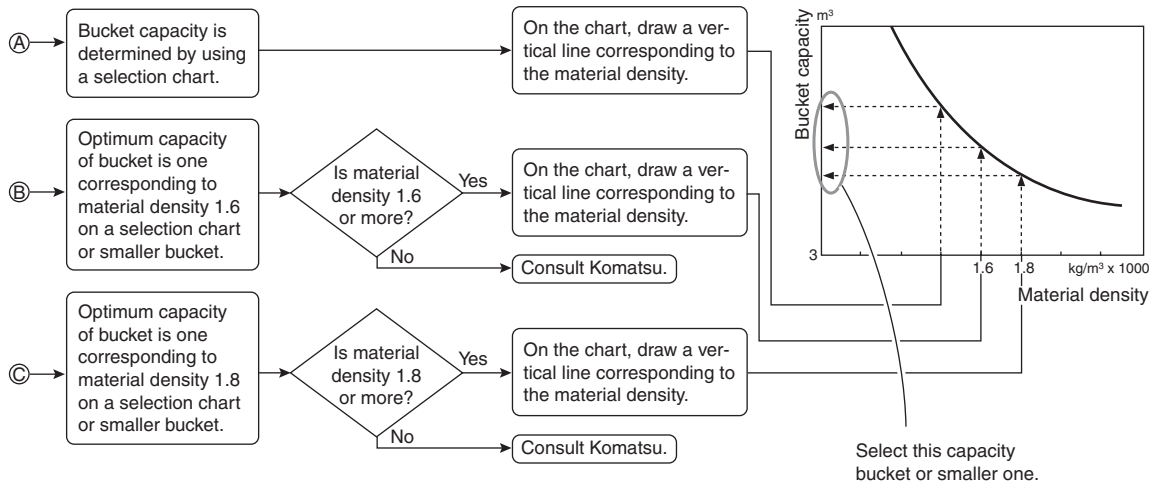
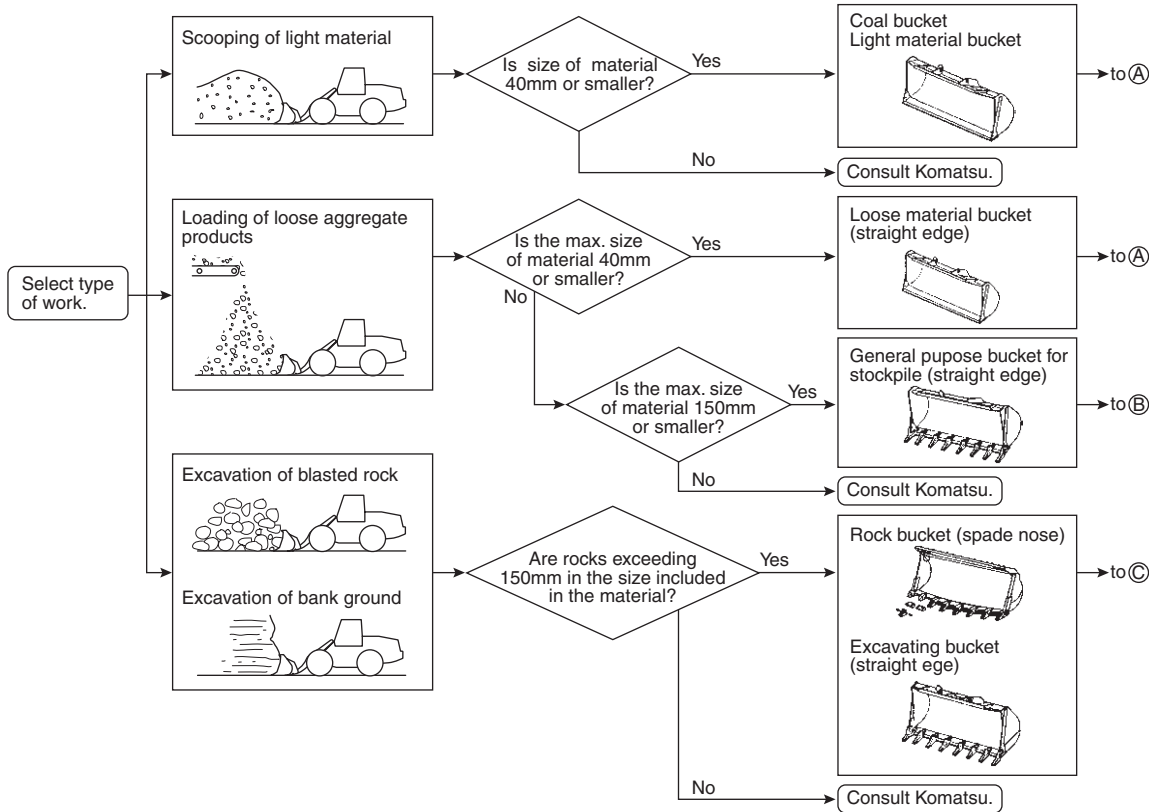
These teeth are suitable for excavating or loading soft rock with a low silica content. (For example, limestone, shale or mudstone with low silica content.)

These teeth are painted white.

NOTE: These teeth are not suitable for operation in rock with a high silica content, or with hard rocks. If they are used on such job sites, their life will be reduced. In such cases, use the normal teeth.

BUCKET SELECTION GUIDE FOR WHEEL LOADER

The optimum bucket type and capacity are determined in consideration of the "type of work" and the "operational stability".



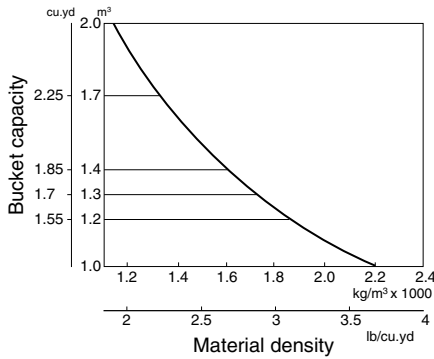
Bucket selection for wheel loader

The appropriate bucket capacity for each model is determined in relation with the density of material that the bucket carries.

The graphs are shown for the models WA120-3. The capacity of the currently available buckets for each model are shown there. Komatsu can develop other sizes of buckets according to these graphs, if it is requested through a distributor.

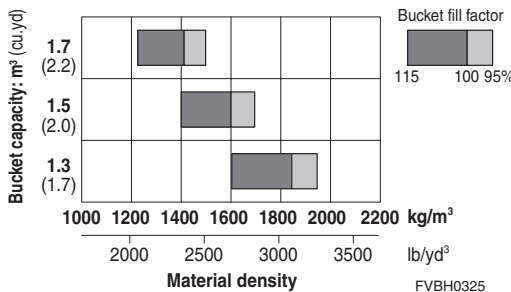
Bucket capacity in the graphs means SAE heaped capacity (Calculation method indicated on page 3A-130). The line in the graph shows the case when the bucket fill factor is 100%.

WA120-3



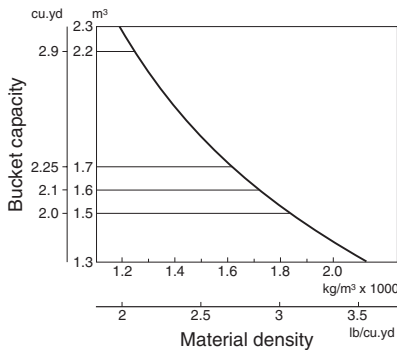
	Capacity Heaped m³ (cu.yd)	Struck m³ (cu.yd)
I General-purpose bucket with bolt-on cutting edge; (Loading and excavating of soil, sand and variety of other commonly handled materials)	1.4 (1.85)	1.2 (1.55)
II General-purpose bucket with teeth	1.3 (1.7)	1.1 (1.45)
III Excavating bucket with bolt-on cutting edges	1.2 (1.55)	1.0 (1.3)
IV Excavating bucket with teeth; (Loading and excavating of crushed rock and blasted rock)	1.2 (1.55)	1.0 (1.3)
V Light material bucket with bolt-on cutting edges; (A lighter-weight, large-capacity bucket)	1.7 (2.25)	1.5 (1.95)

WA150-6, WA150-5



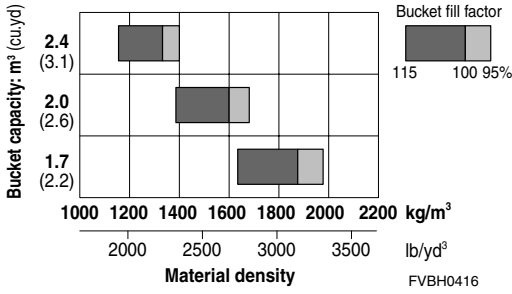
1.7 m³ (2.2 cu.yd)	Light Material Bucket (Scooping and loading of light material)
1.5 m³ (2.0 cu.yd)	Stockpile Bucket (Loading and excavating of soil, sand and a variety of other commonly handled material)
1.3 m³ (1.7 cu.yd)	Excavating Bucket (Loading and excavating of crushed or blasted rock)

WA180-3



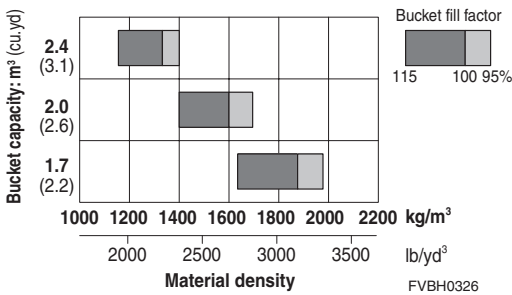
	Capacity Heaped m³ (cu.yd)	Struck m³ (cu.yd)
I General-purpose bucket with bolt-on cutting edge; (Loading and excavating of soil, sand and variety of other commonly handled materials)	1.7 (2.25)	1.4 (1.85)
II General-purpose bucket with teeth	1.6 (2.1)	1.3 (1.7)
III Excavating bucket with bolt-on cutting edges	1.5 (2.0)	1.3 (1.7)
IV Excavating bucket with teeth; (Loading and excavating of crushed rock and blasted rock)	1.5 (2.0)	1.2 (1.55)
V Light material bucket with bolt-on cutting edges; (A lighter-weight, large-capacity bucket)	2.2 (2.9)	1.9 (2.5)

WA200-6



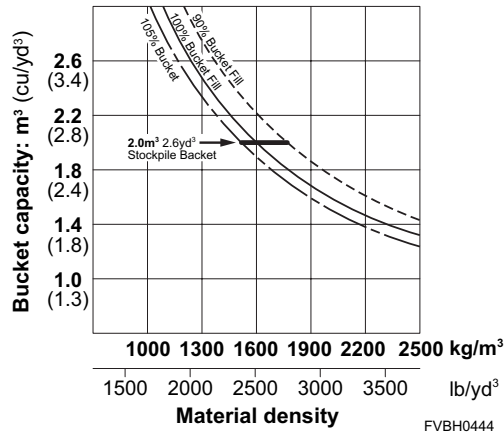
- 2.4 m³ (3.1 cu.yd) Light Material Bucket (Scooping and loading of light material)
- 2.0 m³ (2.6 cu.yd) Stockpile Bucket (Loading and excavating of soil, sand and a variety of other commonly handled material)
- 1.7 m³ (2.2 cu.yd) Excavating Bucket (Loading and excavating of crushed or blasted rock)

WA200-5



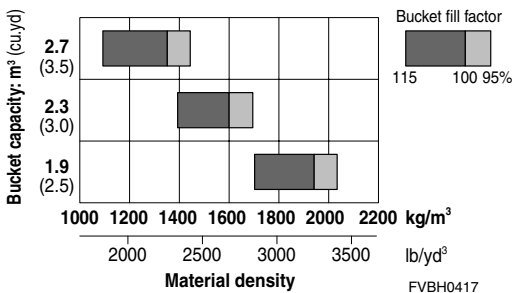
- 2.4 m³ (3.1 cu.yd) Light Material Bucket (Scooping and loading of light material)
- 2.0 m³ (2.6 cu.yd) Stockpile Bucket (Loading and excavating of soil, sand and a variety of other commonly handled material)
- 1.7 m³ (2.2 cu.yd) Excavating Bucket (Loading and excavating of crushed or blasted rock)

WA200PZ-6



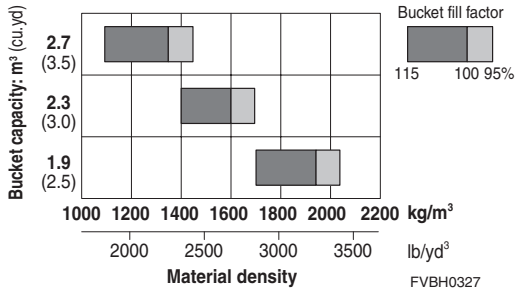
- 2.0 m³ (2.6 cu.yd) Stockpile Bucket (Loading and excavating of soil, sand and a variety of other commonly handled material)

WA250-6



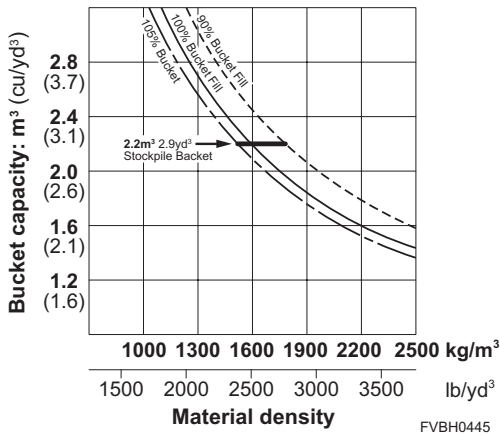
- 2.7 m³ (3.5 cu.yd) Light Material Bucket (Scooping and loading of light material)
- 2.3 m³ (3.0 cu.yd) Stockpile Bucket (Loading and excavating of soil, sand and a variety of other commonly handled material)
- 1.9 m³ (2.5 cu.yd) Excavating Bucket (Loading and excavating of crushed or blasted rock)

WA250-5



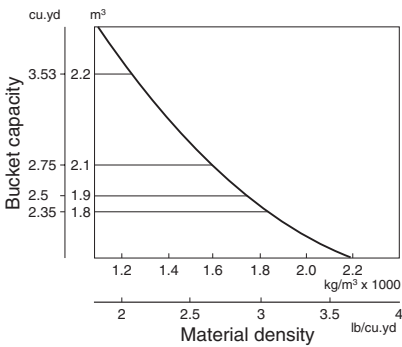
- 2.7 m³ (3.5 cu.yd) Light Material Bucket (Scooping and loading of light material)
- 2.3 m³ (3.0 cu.yd) Stockpile Bucket (Loading and excavating of soil, sand and a variety of other commonly handled material)
- 1.9 m³ (2.5 cu.yd) Excavating Bucket (Loading and excavating of crushed or blasted rock)

WA250PZ-6



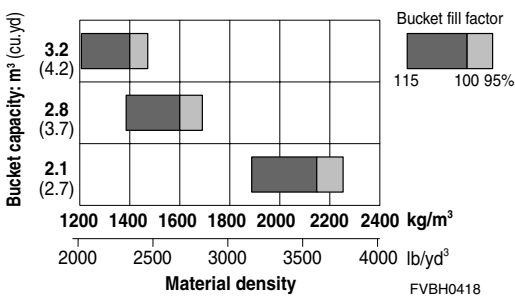
- 2.2 m³ (2.9 cu.yd) Stockpile Bucket (Loading and excavating of soil, sand and a variety of other commonly handled material)

WA250-3



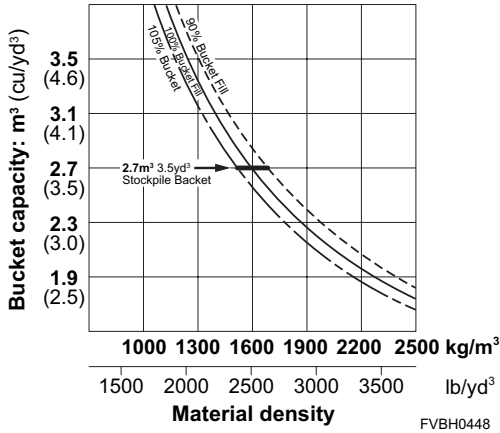
- | | Capacity Heaped m ³ (cu.yd) | Struck m ³ (cu.yd) |
|--|--|-------------------------------|
| I General-purpose bucket with bolt-on cutting edge; (Loading and excavating of soil, sand and variety of other commonly handled materials) | 2.1 (2.75) | 1.8 (2.35) |
| II General-purpose bucket with teeth | 1.9 (2.5) | 1.7 (2.25) |
| III Excavating bucket with bolt-on cutting edges | 1.9 (2.5) | 1.6 (2.1) |
| IV Excavating bucket with bolt-on teeth; (Loading and excavating of crushed rock and blasted rock) | 1.8 (2.35) | 1.5 (1.95) |
| V Light material bucket with bolt-on cutting edges; (A lighter-weight, large-capacity bucket) | 2.7 (3.55) | 2.3 (3.0) |

WA320-6



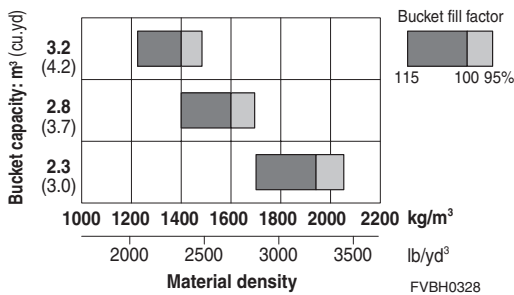
- 3.2 m³ (4.2 cu.yd) Light Material Bucket with B.O.C. (Scooping and loading of light material)
- 2.8 m³ (3.7 cu.yd) Stockpile Bucket with B.O.C. (Loading and excavating of soil, sand and a variety of other commonly handled material)
- 2.1 m³ (2.7 cu.yd) Excavating Bucket with Teeth (Loading and excavating of crushed or blasted rock)

WA320PZ-6



2.7 m³
(3.5 cu.yd)
Stockpile Bucket
(Loading and excavating of soil, sand and a variety of other commonly handled material)

WA320-5

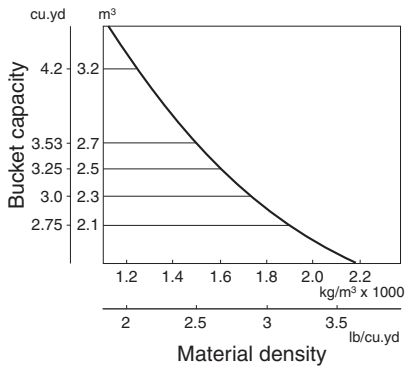


3.2 m³
(4.2 cu.yd)
Light Material Bucket
(Scooping and loading of light material)

2.8 m³
(3.7 cu.yd)
Stockpile Bucket
(Loading and excavating of soil, sand and a variety of other commonly handled material)

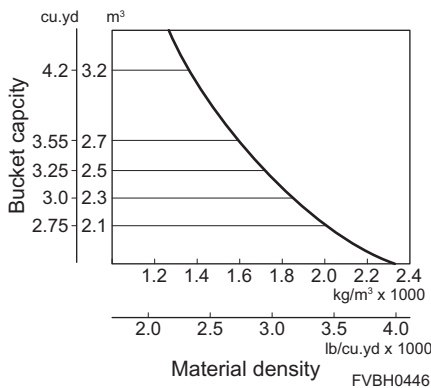
2.3 m³
(3.0 cu.yd)
Excavating Bucket
(Loading and excavating of crushed or blasted rock)

WA320-3 CUSTOM



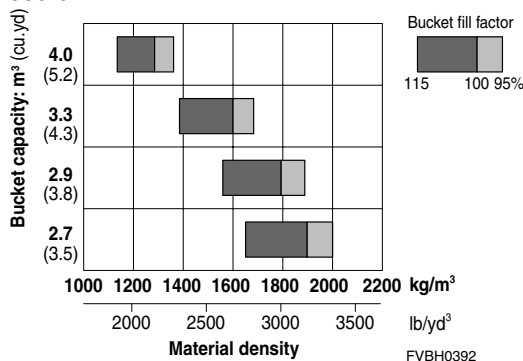
	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)
I General-purpose bucket with bolt-on cutting edge; (Loading and excavating of soil, sand and variety of other commonly handled materials)	2.7 (3.53)	2.3 (3.01)
II General-purpose bucket with teeth	2.5 (3.0)	1.95 (2.55)
III Excavating bucket with bolt-on cutting edges	2.3 (3.0)	1.95 (2.55)
IV Excavating bucket with teeth (Loading and excavating of crushed rock and blasted rock)	2.1 (2.75)	1.8 (2.35)
V Light material bucket with bolt-on cutting edges; (A lighter-weight, large-capacity bucket)	3.2 (4.2)	2.8 (3.7)

WA320-3



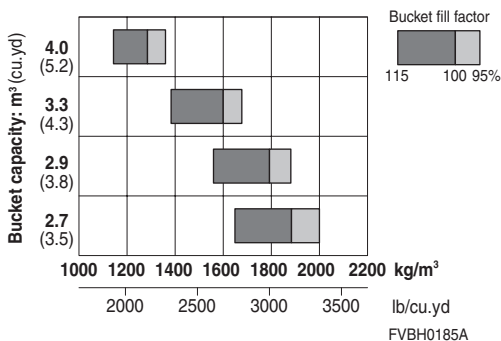
	Capacity Heaped m³ (cu.yd)	Struck m³ (cu.yd)
I General-purpose bucket with bolt-on cutting edge; (Loading and excavating of soil, sand and variety of other commonly handled materials)	2.7 (3.55)	2.3 (3.0)
II General-purpose bucket with teeth	2.5 (3.25)	2.2 (2.9)
III Excavating bucket with bolt-on cutting edges	2.3 (3.0)	1.95 (2.25)
IV Excavating bucket with teeth (Loading and excavating of crushed rock and blasted rock)	2.1 (2.75)	1.8 (2.35)
V Light material bucket with bolt-on cutting edges; (A lighter-weight, large-capacity bucket)	3.2 (4.2)	2.8 (3.7)

WA380-6



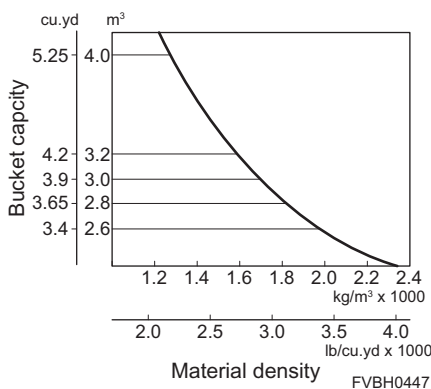
4.0 m³ (5.2 cu.yd)	Light Material Bucket with B.O.C. (Scooping and loading of light material)
3.3 m³ (4.3 cu.yd)	General Purpose Bucket with B.O.C. (Loading and excavating of soil, sand and a variety of other commonly handled material)
2.9 m³ (3.8 cu.yd)	Excavating Bucket with B.O.C. Excavating Bucket with Teeth and Segment Edge (Loading and excavating of crushed or blasted rock)
2.7 m³ (3.5 cu.yd)	Excavating Bucket with Teeth (Loading and excavating of blasted rock)

WA380-5



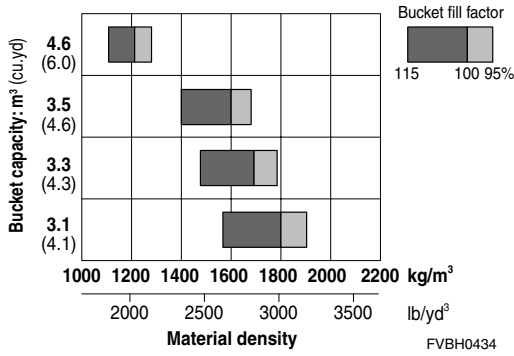
4.0 m³ (5.2 cu.yd)	Light Material Bucket with B.O.C. (Scooping and loading of light material)
3.3 m³ (4.3 cu.yd)	General Purpose Bucket with B.O.C. (Loading and excavating of soil, sand and a variety of other commonly handled material)
2.9 m³ (3.8 cu.yd)	Excavating Bucket with B.O.C. Excavating Bucket with Teeth and Segment Edge (Loading and excavating of crushed or blasted rock)
2.7 m³ (3.5 cu.yd)	Excavating Bucket with Teeth (Loading and excavating of blasted rock)

WA380-3



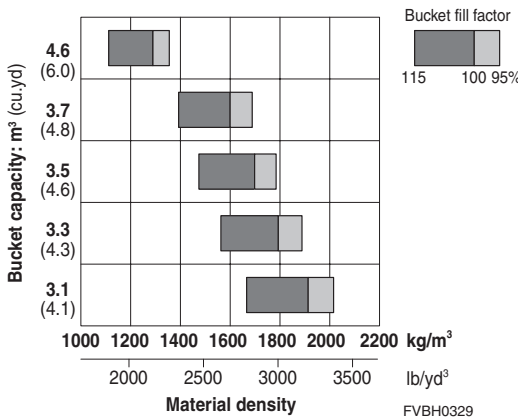
	Capacity Heaped m³ (cu.yd)	Struck m³ (cu.yd)
I General-purpose bucket with bolt-on cutting edge; (Loading and excavating of soil, sand and variety of other commonly handled materials)	3.2 (4.2)	2.7 (3.55)
II General-purpose bucket with teeth	3.0 (3.9)	2.6 (3.9)
III Excavating bucket with bolt-on cutting edges	2.8 (3.65)	2.35 (3.07)
IV Excavating bucket with teeth; (Loading and excavating of crushed rock and blasted rock)	2.6 (3.4)	2.2 (2.9)
V Light material bucket with bolt-on cutting edges; (A lighter-weight, large-capacity bucket)	4.0 (5.25)	3.4 (4.45)

WA430-6



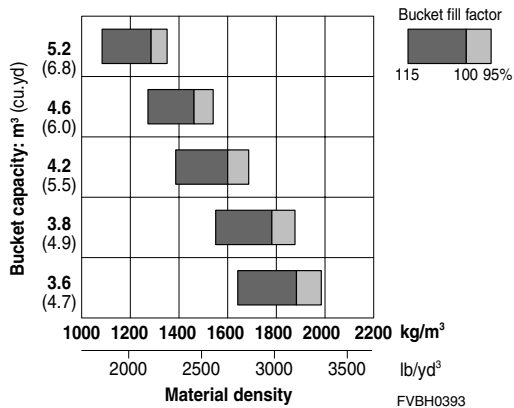
- 4.6 m³ (6.0 cu.yd) Light Material Bucket with B.O.C. (Scooping and loading of light material)
- 3.5 m³ (4.6 cu.yd) General Purpose Bucket with B.O.C. (Loading and excavating of soil, sand and a variety of other commonly handled material)
- 3.3 m³ (4.3 cu.yd) Excavating Bucket with B.O.C. Excavating Bucket with Teeth and Segment Edge (Loading and excavating of crushed or blasted rock)
- 3.1 m³ (4.1 cu.yd) Excavating Bucket with Teeth (Loading and excavating of blasted rock)

WA430-5



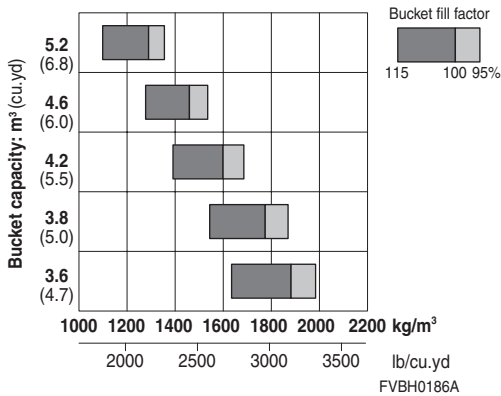
- 4.6 m³ (6.0 cu.yd) Light Material Bucket with B.O.C. (Scooping and loading of light material)
- 3.7 m³ (4.8 cu.yd) General Purpose Bucket with B.O.C. (Loading of crushed stone and dry sand)
- 3.5 m³ (4.6 cu.yd) General Purpose Bucket with Teeth (Loading and excavating of soil, sand and a variety of other commonly handled material)
- 3.3 m³ (4.3 cu.yd) Excavating Bucket with B.O.C. Excavating Bucket with Bolt-on Teeth and Segments (Loading or excavating of blasted rock)
- 3.1 m³ (4.1 cu.yd) Excavating Bucket with Teeth Rock Bucket with Teeth (Spade Nose) (Loading or excavating of blasted rock)

WA470-6



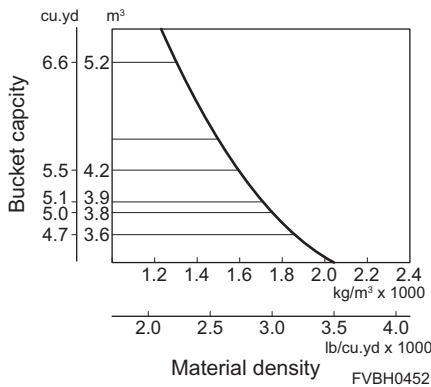
- 5.2 m³ (6.8 cu.yd) Light Material Bucket with B.O.C. (Scooping and loading of light material)
- 4.6 m³ (6.0 cu.yd) Loose Material Bucket with B.O.C. (Loading of crushed stone and dry sand)
- 4.2 m³ (5.5 cu.yd) Stockpile Bucket with B.O.C. (Loading and excavating of soil, sand and a variety of other commonly handled material)
- 3.8 m³ (5.0 cu.yd) Excavating Bucket with B.O.C. Excavating Bucket with Teeth and Segment Edge (Loading and excavating of crushed or blasted rock)
- 3.6 m³ (4.7 cu.yd) Excavating Bucket with Teeth Rock Bucket with Teeth (Spade Nose) (Loading and excavating of blasted rock)

WA470-5



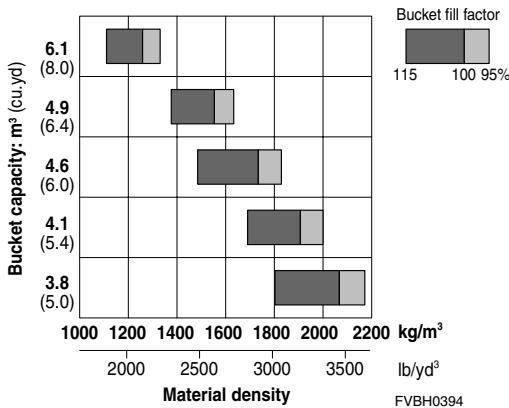
- 5.2 m³ (6.8 cu.yd) Light Material Bucket with B.O.C. (Scooping and loading of light material)
- 4.6 m³ (6.0 cu.yd) Loose Material Bucket with B.O.C. (Loading of crushed stone and dry sand)
- 4.2 m³ (5.5 cu.yd) Stockpile Bucket with B.O.C. (Loading and excavating of soil, sand and a variety of other commonly handled material)
- 3.8 m³ (5.0 cu.yd) Excavating Bucket with B.O.C. Excavating Bucket with Teeth and Segment Edge (Loading and excavating of crushed or blasted rock)
- 3.6 m³ (4.7 cu.yd) Excavating Bucket with Teeth Rock Bucket with Teeth (Spade Nose) (Loading and excavating of blasted rock)

WA470-3



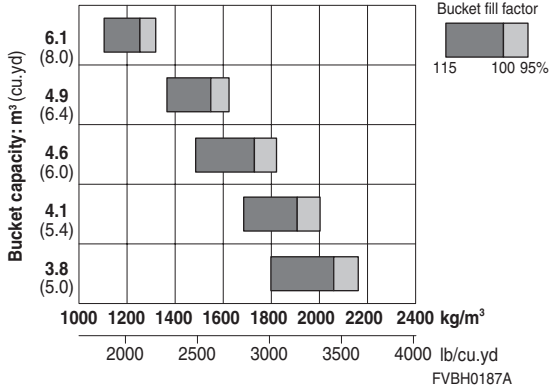
- | | Capacity Heaped m ³ (cu.yd) | Struck m ³ (cu.yd) |
|--|--|-------------------------------|
| I General-purpose bucket with bolt-on cutting edge; (Loading and excavating of soil, sand and variety of other commonly handled materials) | 4.2 (5.5) | 3.6 (4.7) |
| II General-purpose bucket with teeth | 3.9 (5.1) | 3.4 (4.45) |
| III Excavating bucket with bolt-on cutting edges | 3.8 (5.0) | 3.3 (4.3) |
| IV Excavating bucket with teeth; (Loading and excavating of crushed rock and blasted rock) | 3.6 (4.7) | 3.1 (4.05) |
| V Light material bucket with bolt-on cutting edges; (A lighter-weight, large-capacity bucket) | 5.2 (6.8) | 4.5 (5.9) |
| VI Rock bucket with teeth; (Spade nose). (Loading and excavating of blasted rock) | 3.5 (4.6) | 3.0 (3.9) |

WA480-6



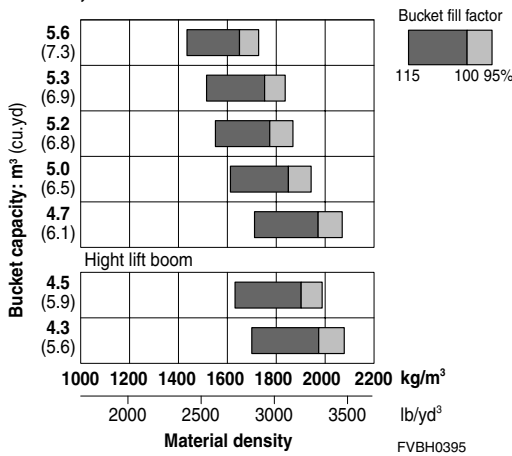
- 6.1 m³ (8.0 cu.yd) Light Material Bucket with B.O.C. (Loading of light material)
- 4.9 m³ (6.4 cu.yd) Loose Material Bucket with B.O.C. (Loading of crushed stone and dry sand)
- 4.6 m³ (6.0 cu.yd) Stockpile Bucket with B.O.C. (Loading and excavating of soil, sand and a variety of other commonly handled material)
- 4.1 m³ (5.4 cu.yd) Excavating Bucket with B.O.C. Excavating Bucket with Teeth and Segment Edge (Loading and excavating of crushed or blasted rock)
- 3.8 m³ (5.0 cu.yd) Excavating Bucket with Teeth (Loading and excavating of blasted rock)

WA480-5



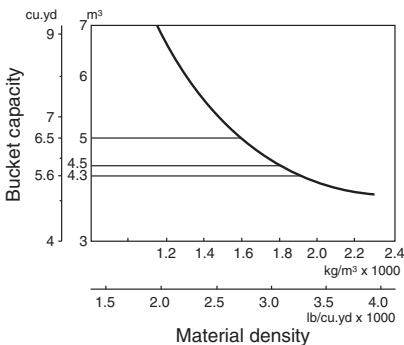
- 6.1 m³ (8.0 cu.yd) Light Material Bucket with B.O.C. Loose Material Bucket with B.O.C. (Loading of crushed stone and dry sand)
- 4.9 m³ (6.4 cu.yd) Stock Pile Bucket with B.O.C. (Loading and excavating of soil, sand and variety of other commonly handled material)
- 4.6 m³ (6.0 cu.yd) Excavating Bucket with B.O.C. Excavating Bucket with Teeth and Segment Edge (Loading and excavating of crushed or blasted rock)
- 3.8 m³ (5.0 cu.yd) Excavating Bucket with Teeth (Loading and excavating of blasted rock)

WA500-6, WA500-6R



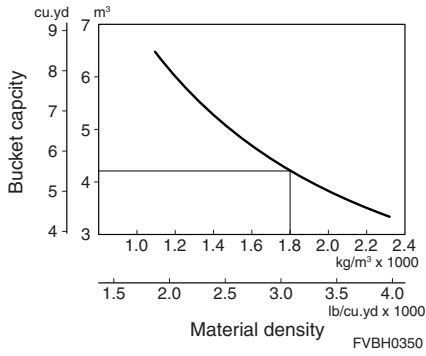
- 5.1 m³ (6.7 cu.yd) General Purpose Bucket with B.O.C.
- 5.3 m³ (6.9 cu.yd) Excavating Bucket with Teeth
- 5.2 m³ (6.8 cu.yd) Excavating Bucket with B.O.C. Excavating Bucket with Teeth and Segments
- 5.0 m³ (6.5 cu.yd) Excavating Bucket with Teeth Rock Bucket with Teeth and Segments (Spade Nose)
- 4.7 m³ (6.1 cu.yd) Rock Bucket with Teeth (Spade Nose)
- 4.5 m³ (5.9 cu.yd) Excavating Bucket with B.O.C. Excavating Bucket with Teeth and Segments
- 4.3 m³ (5.6 cu.yd) Excavating Bucket with Teeth

WA500-3



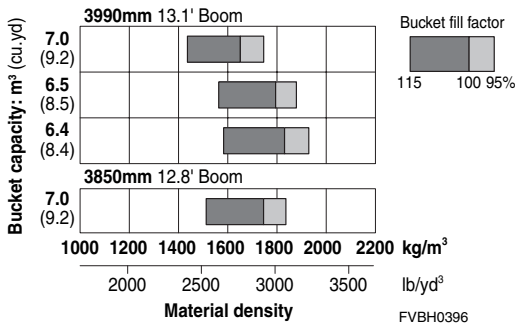
- | | Capacity Heaped m ³ (cu.yd) | Struck m ³ (cu.yd) |
|---|--|-------------------------------|
| I Excavating bucket (straight edge) with teeth | 4.3 (5.6) | 3.6 (4.7) |
| II Excavating bucket (spade nose) with teeth and segment edge | 4.5 (5.9) | 4.1 (5.4) |
| III General-purpose bucket with bolt on cutting edge without teeth ; Loading stockpile products | 5.0 (6.5) | 4.6 (6.0) |

WA500-3 (High-lift)



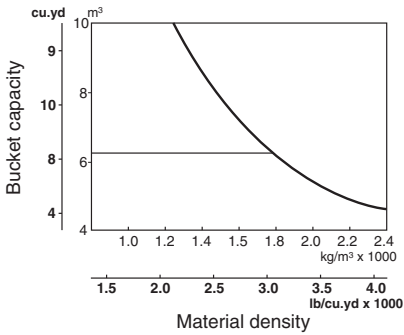
	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)
I Excavating bucket (straight edge) with teeth	4.2 (5.6)	3.6 (4.8)

WA600-6, WA600-6R



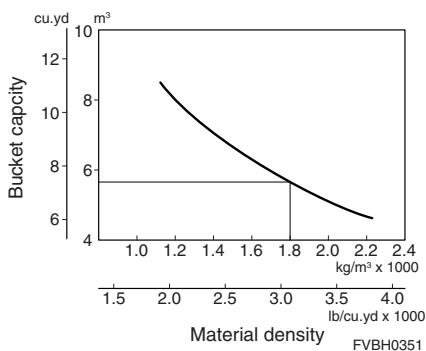
7.0 m ³ (9.2 cu.yd)	Stockpile Bucket with Teeth and weld on Segment edges
6.5 m ³ (8.5 cu.yd)	Excavating Bucket with Teeth and bolt on Segment edges
6.4 m ³ (8.4 cu.yd)	Excavating Bucket with Teeth and weld on Segments edges
7.0 m ³ (9.2 cu.yd)	Excavating Bucket with Teeth and bolt or weld on Segments edges

WA600-3



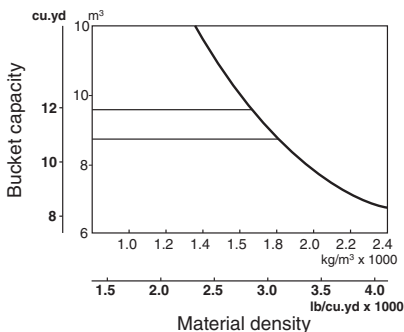
	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)
I Excavating bucket (straight edge) with tip teeth	6.1 (8.0)	5.1 (6.7)
II Excavating bucket (spade nose) with tip teeth	6.1 (8.0)	5.1 (6.7)
III Coal bucket (straight edge)	11.0 (14.4)	9.5 (12.4)

WA600-3 (High-lift)



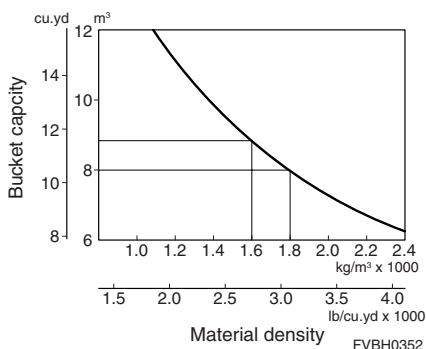
	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)
I Excavating bucket (straight edge) with teeth	5.6 (7.3)	4.0 (5.2)
II Excavating bucket (spade nose) with teeth	5.6 (7.3)	4.0 (5.2)

WA700-3



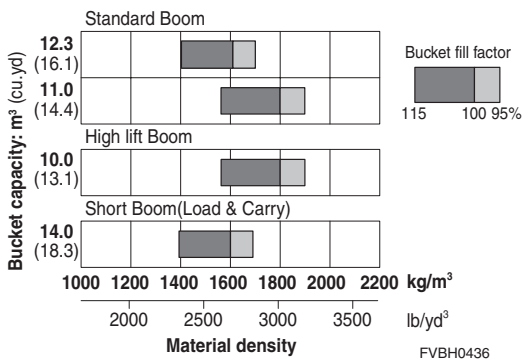
	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)
I Excavating bucket (straight edge) without tip teeth	8.7 (11.4)	7.6 (9.9)
II Excavating bucket (spade nose) without tip teeth	8.7 (11.4)	7.6 (9.9)
III General-purpose bucket (straight edge) without tip teeth	9.4 (12.3)	8.2 (10.7)

WA700-3 (High-lift)



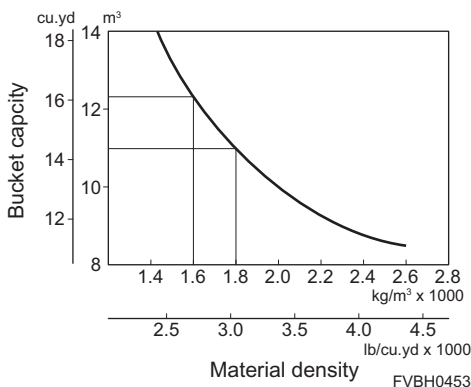
	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)
I Excavating bucket (straight edge) with teeth	8.0 (10.5)	7.0 (9.2)
II Stock pile bucket (spade nose) with teeth	8.7 (11.4)	7.6 (5.2)

WA800-3E0



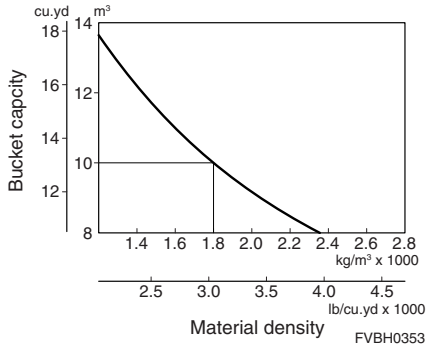
12.3 m ³ (16.1 cu.yd)	Stockpile Bucket (spade nose) with teeth
11.0 m ³ (14.4 cu.yd)	Excavating Bucket (spade nose) with teeth
10.0 m ³ (13.1 cu.yd)	Rock Bucket (spade nose) with teeth
14.0 m ³ (18.3 cu.yd)	Bucket for Load & Carry (spade nose) with teeth

WA800-3



	Capacity Heaped m ³ (cu.yd)	Struck m ³ (cu.yd)
I Excavating bucket (spade nose) with tip teeth	11.0 (14.4)	9.3 (12.2)
II Stockpile (spade nose) with teeth	12.3 (16.1)	10.4 (13.6)

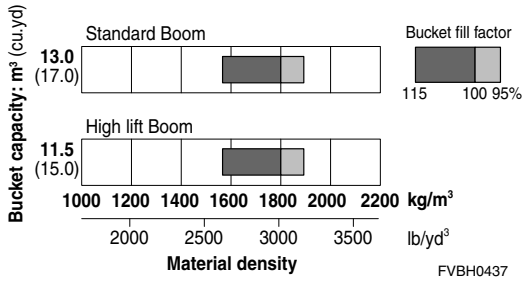
WA800-3 (High-lift)



I Excavating bucket (straight edge) with teeth

Capacity	Heaped	Struck
m^3	(cu.yd)	(cu.yd)
10.0	13.1	8.5
(13.1)	(11.1)	

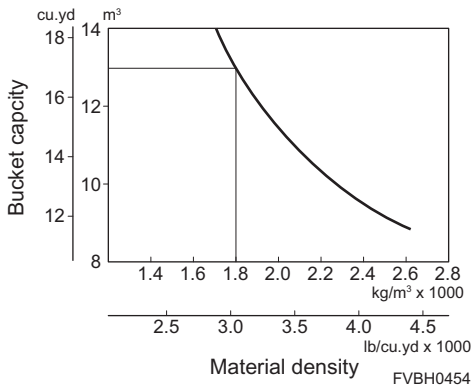
WA900-3E0



13.0 m^3 (17.0 cu.yd) Excavating Bucket (spade nose) with teeth

11.5 m^3 (15.0 cu.yd) Rock Bucket (spade nose) with teeth

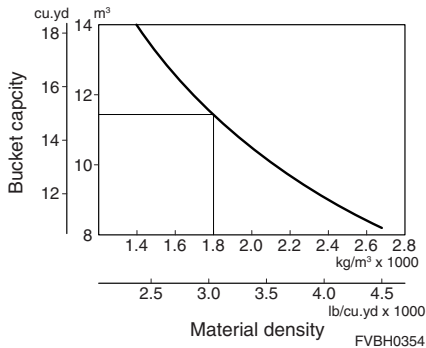
WA900-3



I Excavating bucket (spade nose) with tip teeth

Capacity	Heaped	Struck
m^3	(cu.yd)	(cu.yd)
13.0	17.0	11.0
(17.0)	(14.4)	

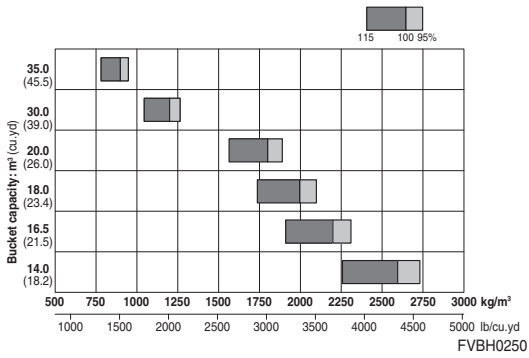
WA900-3 (High-lift)



I Excavating bucket (straight edge) with teeth

Capacity	Heaped	Struck
m^3	(cu.yd)	(cu.yd)
11.5	15.0	9.7
(15.0)	(12.7)	

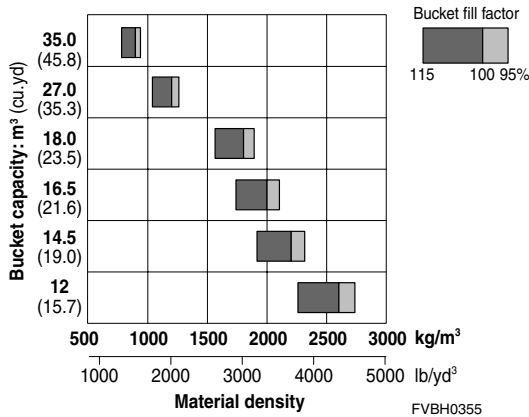
WA1200-3



I Excavating bucket (spade nose) with tip teeth

Capacity	Heaped	Struck
m ³	(cu.yd)	(cu.yd)
20.0	17.2	
(26.2)	(22.5)	

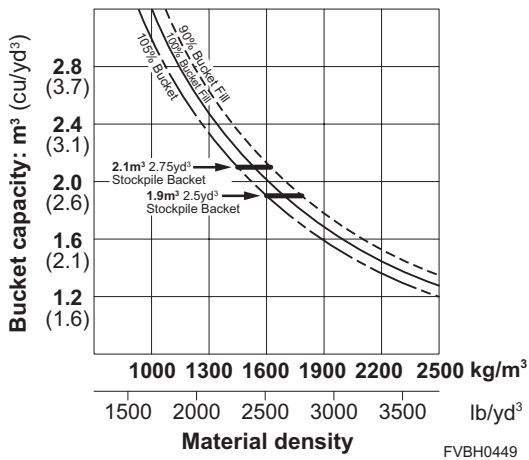
WA1200-3 (High-lift)



I Excavating bucket (spade nose) with tip teeth

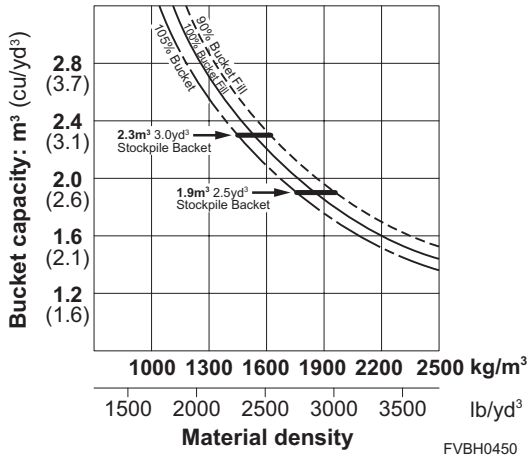
Capacity	Heaped	Struck
m ³	(cu.yd)	(cu.yd)
18.0	15.0	
(23.5)	(19.6)	

WA200PZ-6 (for USA)



2.1 m³ (2.75 cu.yd)
 1.9 m³ (2.5 cu.yd)
 General Purpose Bucket with B.O.C. (Loading and excavating of soil, sand and a variety of other commonly handled materials)

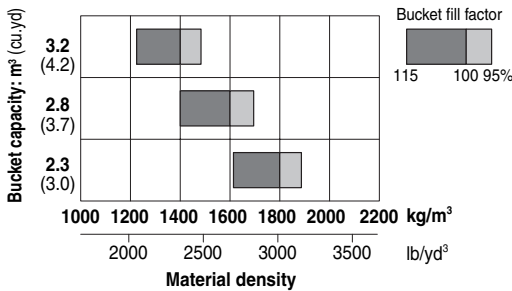
WA250PZ-6 (for USA)



2.3 m³
(3.6 cu.yd)
1.9 m³
(2.5 cu.yd)

General Purpose Bucket with B.O.C.
(Loading and excavating of soil, sand and a variety of other commonly handled materials)

WA320-6 (USA source)



3.2 m³
(4.2 cu.yd)

Light Material Bucke
(Scooping and loading of light material)

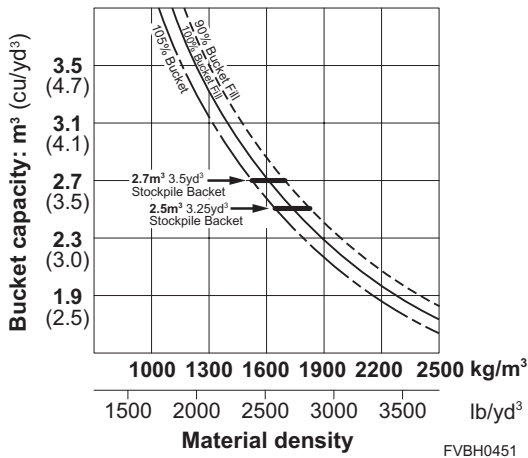
2.8 m³
(3.7 cu.yd)

Stockpile Bucket with B.O.C.
(Loading and excavating of soil, sand and a variety of other commonly handled material)

2.3 m³
(3.0 cu.yd)

Excavating Bucket with B.O.C.
(Loading and excavating of crushed or blasted rock)

WA320PZ-6 (for USA)



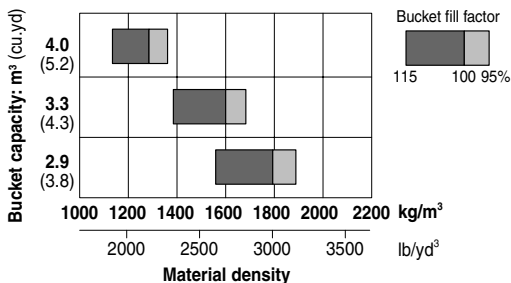
2.7 m³
(3.5 cu.yd)

Light Material Bucket with B.O.C.
(Scooping and loading of light material)

2.5 m³
(3.25 cu.yd)

General Purpose Bucket with B.O.C.
(Loading and excavating of soil, sand and a variety of other commonly handled materials)

WA380-6 (USA source)

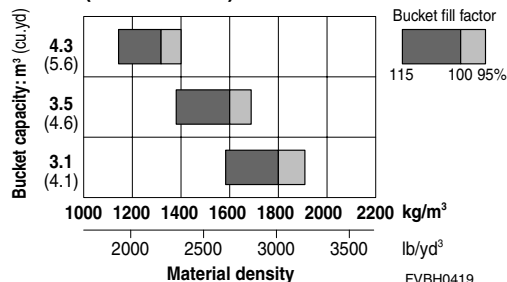


4.0 m³
(5.2 cu.yd)
Light Material Bucket with B.O.C.
(Scooping and loading of light material)

3.3 m³
(4.3 cu.yd)
General Purpose Bucket with B.O.C.
(Loading and excavating of soil, sand and a variety of other commonly handled materials)

2.9 m³
(3.8 cu.yd)
Excavating Bucket with B.O.C.
Excavating Bucket with Teeth and Segment Edge (Loading and excavating of crushed or blasted rock.)

WA430-6 (USA source)

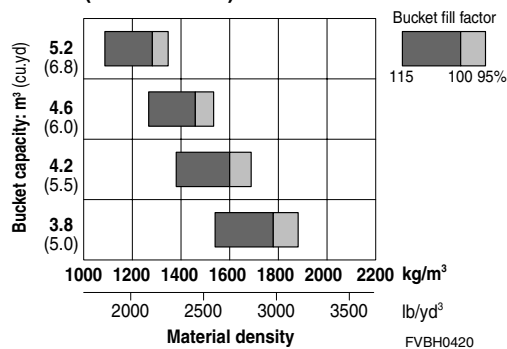


4.3 m³
(5.6 cu.yd)
Light Material Bucket with B.O.C.
(Scooping and loading of light material)

3.5 m³
(4.6 cu.yd)
General Purpose Bucket with B.O.C.
(Loading and excavating of soil, sand and a variety of other commonly handled material)

3.1 m³
(4.1 cu.yd)
Excavating Bucket with B.O.C.
(Loading and excavating of crushed or blasted rock)

WA470-6 (USA source)



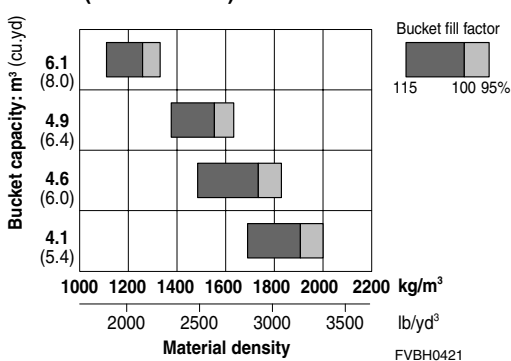
5.2 m³
(6.8 cu.yd)
Light Material Bucket with B.O.C.
(Scooping and loading of light material)

4.6 m³
(6.0 cu.yd)
Loose Material Bucket with B.O.C.
(Loading of crushed stone and dry sand)

4.2 m³
(5.5 cu.yd)
Stockpile Bucket with B.O.C.
(Loading and excavating of soil, sand and a variety of other commonly handled material)

3.8 m³
(5.0 m³)
Excavating Bucket with B.O.C.
(Loading and excavating of crushed or blasted rock)

WA480-6 (USA source)



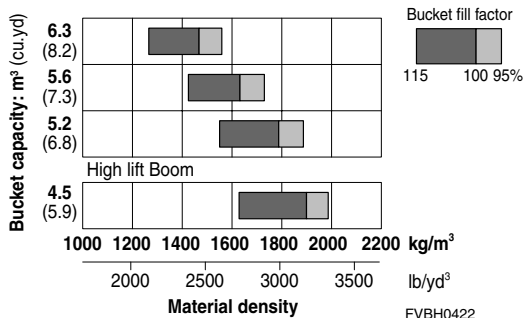
6.1 m³
(8.0 cu.yd)
Light Material Bucket with B.O.C.
(Loading of light material)

4.9 m³
(6.4 cu.yd)
Loose Material Bucket with B.O.C.
(Loading of crushed stone and dry sand)

4.6 m³
(6.0 cu.yd)
Stockpile Bucket with B.O.C.
(Loading and excavating of soil, sand and a variety of other commonly handled material)

4.1 m³
(5.4 cu.yd)
Excavating Bucket with B.O.C.
(Loading and excavating of crushed or blasted rock)

WA500-6 (USA source)



6.3 m³
(8.2 cu.yd)

Loose Material Bucket with B.O.C.E.

5.6 m³
(7.3 cu.yd)

General Purpose Bucket with B.O.C.E.

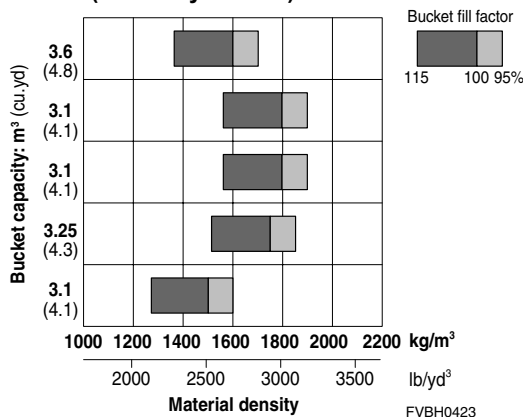
5.2 m³
(6.8 cu.yd)

Excavating Bucket with B.O.C.E.
Excavating Bucket with teeth & segments
(Spade Nose)

4.5 m³
(5.9 cu.yd)

Excavating Bucket with B.O.C.E.

WA380-6 (Germany source)



3.6 m³
(4.8 cu.yd)

Stockpile bucket
Loading loosened or broken material

3.1 m³
(4.1 cu.yd)

Universal/Earth-moving bucket
Ideal for road-building or earthworks, or for
load & carry uses

3.1 m³
(4.1 cu.yd)

Heavy-Duty bucket
Loading and loosening of particularly
abrasive materials

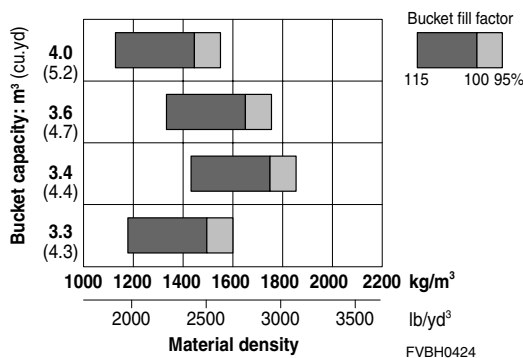
3.25 m³
(4.3 cu.yd)

Universal bucket (quick coupler mount)
Ideal for road-building or earthworks, or for
load & carry uses

3.1 m³
(4.1 cu.yd)

Universal/Earth-moving bucket (high-lift
mount)
Ideal for road-building or earthworks, or for
load & carry uses

WA430-6 (Germany source)



4.0 m³
(5.2 cu.yd)

Stockpile bucket
Loading loosened or broken material

3.6 m³
(4.7 cu.yd)

Universal/Earth-moving bucket
Ideal for road-building or earthworks, or for
load & carry uses

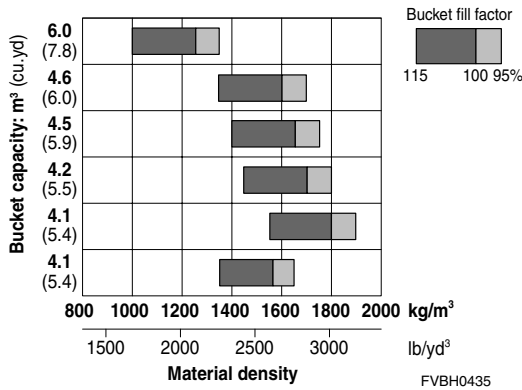
3.4 m³
(4.4 cu.yd)

Heavy-Duty bucket
Loading and loosening of particularly
abrasive materials

3.3 m³
(4.3 cu.yd)

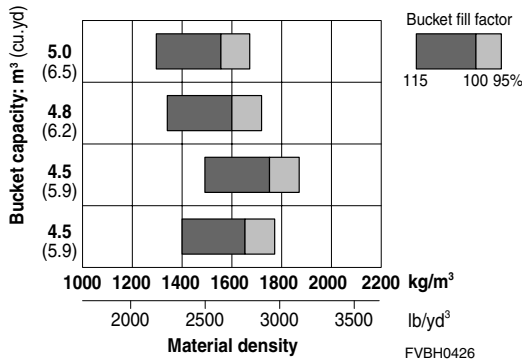
Universal/Earth-moving bucket (high-lift
mount)
Ideal for road-building or earthworks, or for
load & carry uses

WA470-6 (Germany source)



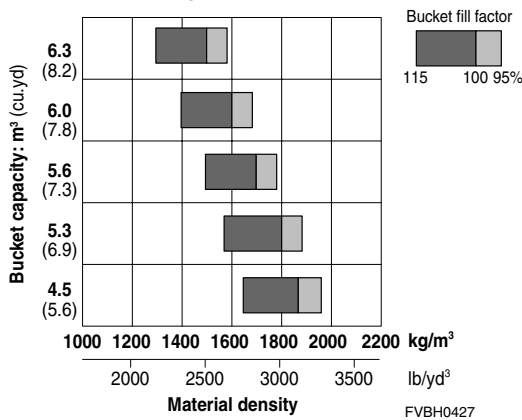
- 6.0 m³ (7.8 cu.yd) Light materials bucket
Ideal for industrial use such as loading lightweight recycling materials or wood chips or shavings
- 4.6 m³ (6.0 cu.yd) Stockpile bucket
Loading loosened or broken material
- 4.5 m³ (5.9 cu.yd) Universal/Earth-moving bucket
Ideal for road-building or earthworks, or for load & carry uses
- 4.2 m³ (5.5 cu.yd) Heavy-Duty bucket
Loading and loosening of particularly abrasive materials
- 4.1 m³ (5.4 cu.yd) Rock bucket
Loading blasted and particularly abrasive material
- 4.1 m³ (5.4 cu.yd) Universal/Earth-moving bucket (high-lift mount)
Ideal for road-building or earthworks, or for load & carry uses

WA480-6 (Germany source)











- 5.0 m³ (6.5 cu.yd) Stockpile bucket
Loading loosened or broken material
- 4.8 m³ (6.2 cu.yd) Universal/Earth-moving bucket
Ideal for road-building or earthworks, or for load & carry uses
- 4.5 m³ (5.9 cu.yd) Heavy-Duty bucket
Loading and loosening of particularly abrasive materials
- 4.5 m³ (5.9 cu.yd) Rock bucket
Loading and loosening of particularly abrasive materials

WA500-6 (Germany source)



- 6.3 m³ (8.2 cu.yd) Stockpile bucket
Loading loosened material
- 6.0 m³ (7.8 cu.yd) Stockpile bucket
Loading loosened or broken material, or load & carry
- 5.6 m³ (7.3 cu.yd) Universal and stockpile bucket
Earthworks, broken material or load & carry
- 5.3 m³ (6.9 cu.yd) Rock bucket
Loading blasted and particularly abrasive material
- 4.5 m³ (5.6 cu.yd) Rock bucket
Loading blasted and particularly abrasive material in combination with high-lift boom

1) KMAX and XS
TEETH SELECTION for LOADERS

TOOTH STYLE		FEATURE - APPLICATION	BENEFIT - ADVANTAGE
Sharp Ribbed (SYL)		<ul style="list-style-type: none"> • General purpose shape used on excavators • Ribbs for support • Centerline tooth 	Wears sharp for good penetration
Rock Chisel (RC)		<ul style="list-style-type: none"> • Heavy duty tooth shape • Used on excavators • Centerline tooth 	<ul style="list-style-type: none"> • Additional wear material for abrasive, tough digging conditions • Profile wears sharp for good penetration
Tiger (T)		<ul style="list-style-type: none"> • Ribs provide strength for tough digging conditions • Used on excavators • Centerline tooth 	Tooth shape provide maximum penetration
Twin Tiger (T)		<ul style="list-style-type: none"> • Used on corner adapters to cut bucket clearance • Used on excavators • Centerline tooth 	Tooth shape provide maximum penetration
U Twin Tiger (UT)		<ul style="list-style-type: none"> • Used on corner adapters to cut bucket clearance • Used on excavators • Centerline tooth 	<ul style="list-style-type: none"> • Better penetration • Parallel sides keep cut width constant during work
Flare (F)		<ul style="list-style-type: none"> • Wide profile for general purpose clean up and trench bottoms • Used on excavators • Centerline tooth 	Panels provide strength for excavating
Rock Penetrator (RP1, RP2 & RP3)		<ul style="list-style-type: none"> • Heavy duty penetrate tooth for loader applications • Non-centerline profile with heavy, flat bottom for abrasive applications 	Center rib provides strength and promotes sharpness.
Rock Penetrator Heavy, Long (RPHL)		<ul style="list-style-type: none"> • Extreme duty penetrate tooth for loader applications • Non-centerline profile for extreme abrasive loader applications 	<ul style="list-style-type: none"> • Flat, grooved bottom for optional tungsten carbiding • Wide profile for maximum wear life

2) Series Recommendation Chart - Wheel Loaders

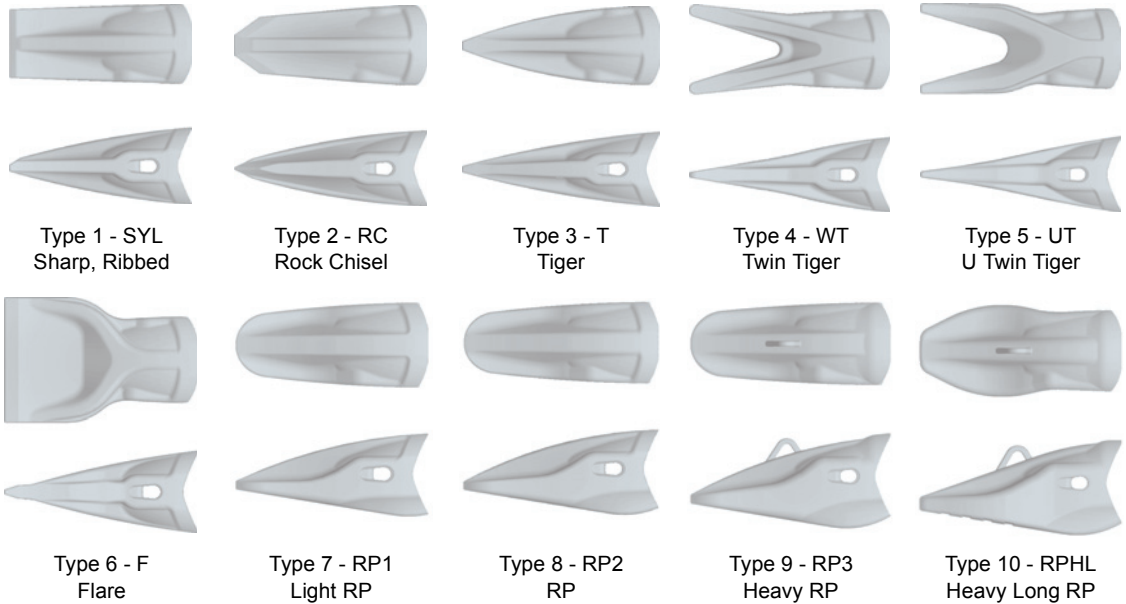
Series		Wheel Loaders	
KMAX	XS	STANDARD/HEAVY DUTY	EXTREME SERVICE
-	XS04	WA30-WA75	-
-	XS05	WA95-WA150	WA75
-	XS10	WA200-WA320	WA200
K15	XS15	WA320-WA380	WA320
K20	XS20	WA380-WA480	WA380-WA470
K25	XS25	WA480-WA500	WA480
K30	XS30	WA500	-
K40	XS40	WA600	WA500
K50	XS50	WA700	WA600
K70	XS70	WA700-WA800	WA700
K85	XS85	WA800-WA900	WA800
-	XS115	WA1200	WA900
-	XS145	WA1200	WA1200

DEFINITIONS

Standard / Heavy Duty - The load on the machine ranges from very little to moderate with some limited, "high load" use. Materials range from light and loose, well-shot, fracturable, to some medium, even heavy shot materials that break up into manageable sizes when excavated. Large slabs of rock do not fit in this category.

Extreme Service - The load on the machine is high, nearing the maximum capabilities of the machine. Materials are heavy un-shot rock or slabs that require the full force of the machine to break out.

3) Tooth Application Chart - Wheel Loaders

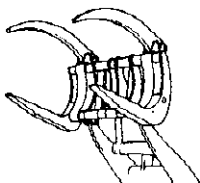


TOOTH STYLES BY SERIES

Series	Tooth Styles									
	1	2	3	4	5	6	7	8	9	10
XS04	○	○	—	—	—	—	—	—	—	—
XS05	○	○	○	○	—	○	—	—	—	—
XS10	○	○	○	○	—	○	—	—	—	—
KMAX 15	○	○	○	○	—	○	○	○	—	—
KMAX 20	○	○	○	○	○	○	○	○	—	—
KMAX 25	○	○	○	○	○	○	○	○	—	—
KMAX 30	○	○	○	○	○	○	—	○	—	—
KMAX 40	○	○	○	○	○	○	○	○	—	—
KMAX 50	○	○	○	○	—	○	—	○	—	—
KMAX 70	○	○	○	○	—	○	—	○	○	—
KMAX 85	○	○	○	○	—	—	—	○	○	—
XS115	○	○	—	—	—	—	—	—	—	—
XS145	○	○	—	—	—	—	—	○	○	—

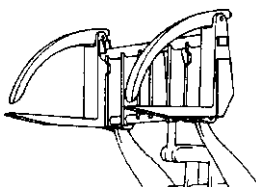
○ : Available
 — : Not Available

- Log grapple



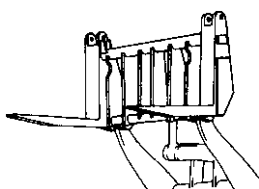
This is a special log attachment for use with logs ranging from small-diameter short logs to large-diameter long logs. Its shape enables it to grip the log well with little rolling shock, and it is designed so that the center of gravity of the log is close to the machine body. This enables the machine to maintain its stability when loading and hauling.

- Log-lumber grapple



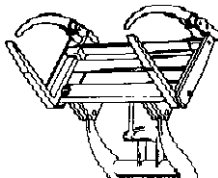
The log-lumber grapple is an all-round tool for log and lumber handling capable of dealing with lumber, long logs of large diameter or short logs of small diameter as well as lumber. However, forks of log-lumber grapple are fixed for strength so it is not suitable for use in forklift operations.

- Log-lumber fork



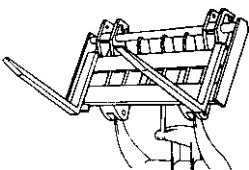
Log-lumber fork has the same features as log-lumber grapple. This attachment has no top clamps.

- Lumber grapple



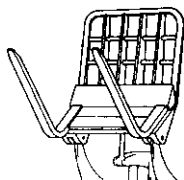
The "L" type forks of the lumber fork permit handling of lumber and logs of smaller diameter and shorter length. Clearance between left and right forks is adjustable according to the materials being handled.

- Lumber fork



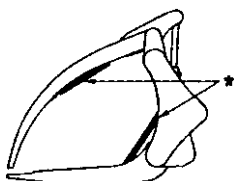
Lumber fork has the same features as lumber grapple. This attachment has no top clamps.

- Dumping fork



Useful for truck-loading pulpwood from stacks, and for gathering and loading pulpwood into stacks or onto trucks. Also usable in handling logs of smaller diameter and shorter length. A lighter, handy version of log handling attachments. It has no top clamp. It can load logs when tilted back to prevent them rolling over the fork.

- Pipe grapple



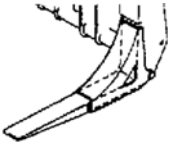
This is a log grapple with cushioning material to allow it to handle pipes and similar materials.

* : Cushioning material

Fork Equipment Features

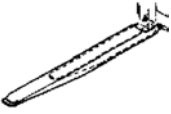
WHEEL LOADERS

- Rolling gusset



If a rolling gusset is installed to the log lumber fork or log lumber grapple, the rolling shock can be reduced when loading logs.

- Extension fork



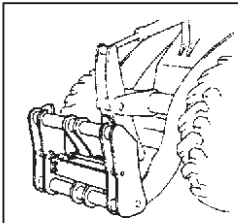
If an extension fork is installed to the lumber fork, the efficiency of handling light materials such as small diameter short logs can be improved.

- Multi-coupler

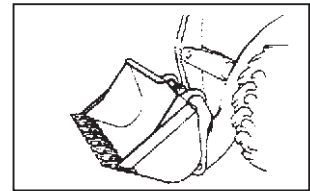
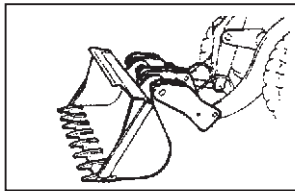
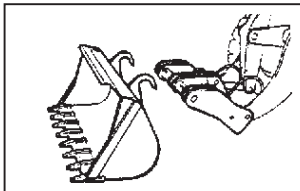
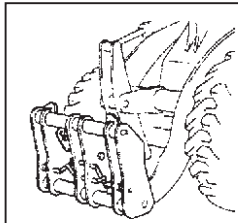
This is an attachment replacement device that makes it possible to speed up the replacement of attachments and reduce the burden on the operator.

It is possible to remove and install attachments to match the purpose of the work simply when sitting in the operator's seat, thereby greatly reducing time and labor.

Hydraulic type



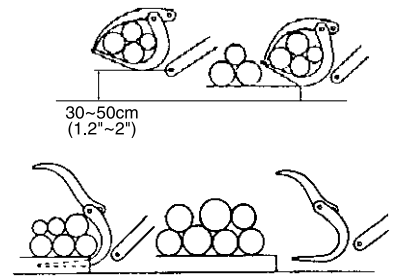
Mechanical type



A. Scooping

1. Forward the machine to insert forks under piled logs while watching fork tips.
2. Once logs are scooped by forks and tilted back fully, then close the arms.
3. Lift fork 30-50 cm above the ground to carry.

NOTE: Use both forks evenly to scoop and grapple the center of logs.



B. Loading work

1. Raise booms and forward the machine gradually to the destination while keeping the fork in a full backward tilt.
2. Open clamper arms and unload logs while slowly lowering forks.
After unloading logs, shift the fork control lever to the "tilt" position and the fork will return automatically to its preset position.
After closing the arms and reversing the machine, lower the booms.

NOTE: When dumping a full load of logs, lower engine revolutions to achieve gradual dumping.

Avoid sudden braking or steering with a full load of logs.
When loading onto trucks, be careful forks and logs do not hit the sticks mounted on the truck's body sides.



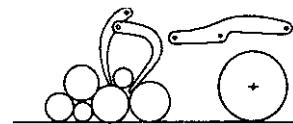
C. Log selection work (for loaders with log clamps)

1. Pick-up selection
 - 1) Open the arms, lower the fork and grab selected logs with fork tips.
 - 2) Pick up logs by tilting back the fork or raising the booms.

NOTE: When picking up a log with fork tips, adjust the tips so they grab the log tightly. More than half of the log's diameter should be grabbed to prevent slippage. Release the arm control lever after arm cylinder is relieved. Logs larger than 40 cm in diameter should be lifted one at a time. Use both forks evenly when grabbing the center of the log.

2. Pull-out selection
 - 1) Open the arms and dump them at 10°-15°, and grab the end of the selected log lengthwise using the fork tips.
 - 2) Reversing the machine to pull out selected log without steering.

NOTE: Do not lift chosen log higher than required.
Hold the log securely and close arm, then carry it.



D. Other operations

1. To push logs, open the clamp arms and push them with the inside of the fork, forming right angles with the logs.

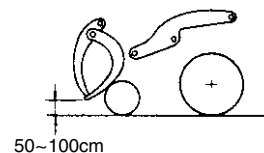
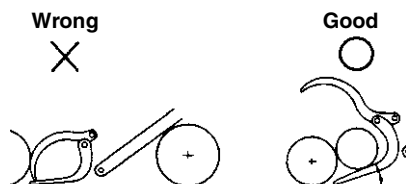
NOTE: The dumping angle should be within 20°.

Avoid pushing logs with the front of the closed clamp arms.

2. To retract logs, lower fork and raise fork tips 50-100 cm above the ground, then reverse the machine and retract the logs.

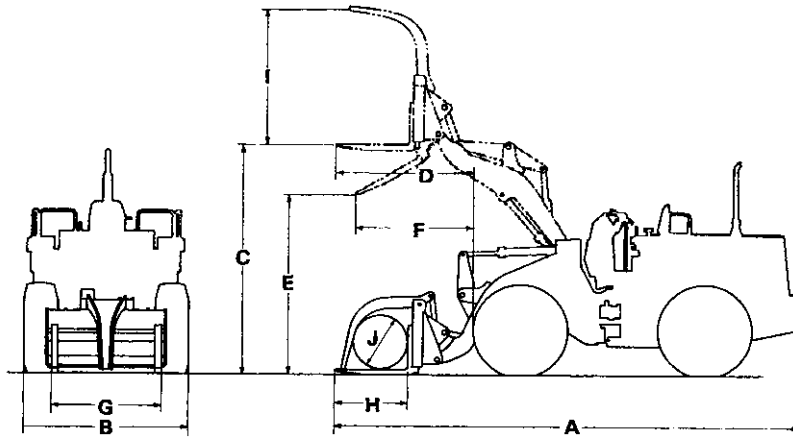
NOTE: Do not uproot tree roots with forks.

Dangerous operations, such as throwing grabbed logs for placement in the depth of loading site, should be conducted in open areas and only after the work site has been properly cleared. Do not conduct these operations where damage to the machine or other equipment is possible.



Lumber Grapple Specifications

WHEEL LOADERS



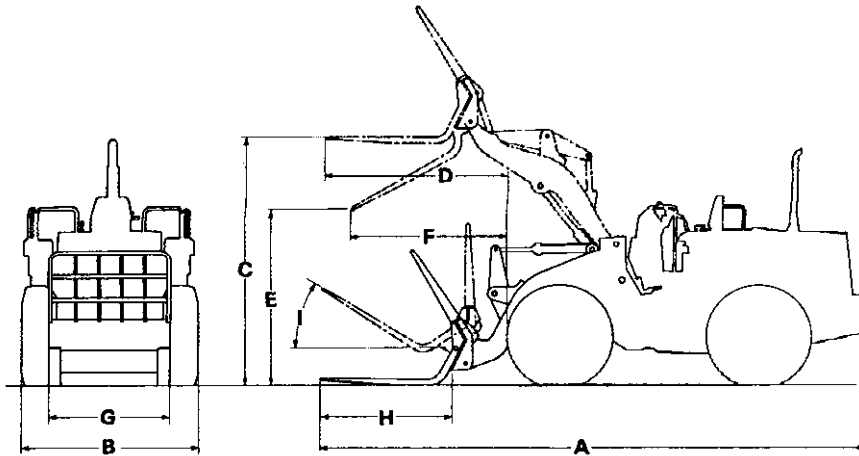
Item	Model	WA180-3**	WA250-5**	WA320-3**	WA320-5**
OPERATING WEIGHT	kg (lb)	9140 (20,150)	11330 (24,980)	14280 (31,490)	14270 (31,470)
A. OVERALL LENGTH	mm (ft.in)	6910 (22'8")	7625 (25'0")	8165 (26'9")	8040 (26'5")
B. OVERALL WIDTH	mm (ft.in)	2210 (7'3")	2470 (8'1")	2585 (8'6")	2585 (8'6")
C. Max. tine height with tine level	mm (ft.in)	3390 (11'1")	3645 (12'0")	3745 (12'3")	3765 (12'4")
D. Reach, max. tine height with tine level	mm (ft.in)	1980 (6'6")	2085 (6'10")	2180 (7'2")	2155 (7'1")
E. Dumping clearance*	mm (ft.in)	2610 (8'7")	2795 (9'2")	2840 (9'4")	2860 (9'5")
F. Dumping reach*	mm (ft.in)	1680 (5'6")	1780 (5'10")	1865 (6'1")	1840 (6'0")
G. Overall tine width	mm (ft.in)	1875 (6'2")	2045 (6'9")	2165 (7'1")	2165 (7'1")
H. Tine length	mm (ft.in)	1120 (3'7")	1220 (4'0")	1320 (4'4")	1320 (4'4")
I. Max. clamp opening height	mm (ft.in)	2190 (7'2")	2360 (7'9")	2470 (8'1")	2470 (8'1")
J. Top clamp min. closure diameter	mm (ft.in)	900 (2'11")	950 (3'1")	1000 (3'3")	1000 (3'3")
TIRE SIZE		14.00-24-12PR	20.5-25-12PR (L2)	20.5-25-12PR	20.5-25-16PR (L3)
Add. counterweight	kg (lb)	280 (620)	300 (660)	325 (720)	520 (1,150)

* At 30° discharge angle

** With ROPS cab

Dumping Fork Specifications

WHEEL LOADERS



Item	Model	WA250-5**	WA320-5**	WA320-3 CUSTOM* ³	WA320-3**
OPERATING WEIGHT	kg (lb)	11030 (24,320)	13870 (30,580)	13580 (29,940)	13880 (30,600)
A. OVERALL LENGTH	mm (ft.in)	7845 (25'9")	8360 (27'5")	8485 (27'10")	8485 (27'10")
B. OVERALL WIDTH	mm (ft.in)	2470 (8'1")	2585 (8'6")	2585 (8'6")	2585 (8'6")
C. Max. tine height with tine level	mm (ft.in)	3580 (11'9")	3695 (12'2")	3675 (12'1")	3625 (12'1")
D. Reach, max. tine height with tine level	mm (ft.in)	2240 (7'4")	2405 (7'11")	2430 (8'0")	2430 (8'0")
E. Dumping clearance*	mm (ft.in)	2665 (8'9")	2670 (8'9")	2650 (8'8")	2650 (8')
F. Dumping reach*	mm (ft.in)	1880 (6'2")	2025 (6'8")	2045 (6'9")	2045 (6'9")
G. Overall tine width	mm (ft.in)	1850 (6'1")	2100 (6'11")	2100 (6'11")	2100 (6'11")
H. Tine length	mm (ft.in)	1675 (5'6")	1890 (6'2")	1890 (6'2")	1890 (6'2")
I. Max. tilt-back angle	degree	29	31	30	30
TIRE SIZE		20.5-25-12PR (L2)	20.5-25-16PR (L3)	20.5-25-12PR	20.5-25-12PR
Add. counterweight	kg (lb)	300 (660)	520 (1,150)	750 (1,650)	325 (720)

* At 30° discharge angle

** With ROPS cab

*³ With cab

Item	Model	WA380-3**			
OPERATING WEIGHT	kg (lb)	16750 (36,930)			
A. OVERALL LENGTH	mm (ft.in)	8945 (29'4")			
B. OVERALL WIDTH	mm (ft.in)	2695 (8'8")			
C. Max. tine height with tine level	mm (ft.in)	3820 (12'6")			
D. Reach, max. tine height with tine level	mm (ft.in)	2505 (8'3")			
E. Dumping clearance*	mm (ft.in)	2790 (9'2")			
F. Dumping reach*	mm (ft.in)	2120 (7')			
G. Overall tine width	mm (ft.in)	2100 (6'11")			
H. Tine length	mm (ft.in)	1890 (6'2")			
I. Max. tilt-back angle	degree	31			
TIRE SIZE		20.5-25-16PR			
Add. counterweight	kg (lb)	750 (1,650)			

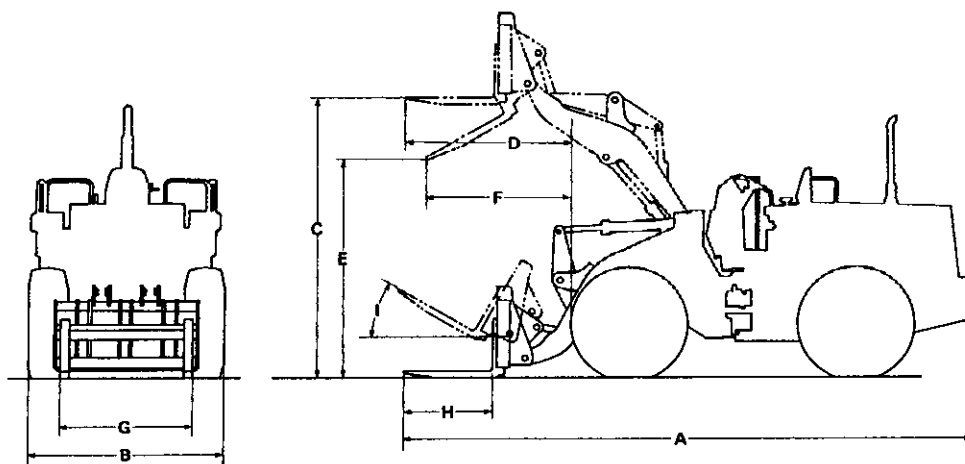
* At 30° discharge angle

** With ROPS cab

*³ With cab

Lumber Fork Specifications

WHEEL LOADERS



Item	Model	WA180-3**	WA200-5**	WA250-5**	WA250-3**
OPERATING WEIGHT	kg (lb)	8920 (19,670)	9830 (21,680)	11090 (24,450)	10640 (23,460)
A. OVERALL LENGTH	mm (ft.in)	6910 (22'9")	7615 (25'0")	7625 (25'0")	7610 (25')
B. OVERALL WIDTH	mm (ft.in)	2210 (7'3")	2375 (7'10")	2470 (8'1")	2375 (7'10")
C. Max. tine height with tine level	mm (ft.in)	3390 (11'1")	3485 (11'5")	3645 (12'0")	3525 (11'7")
D. Reach, max. tine height with tine level	mm (ft.in)	1980 (6'6")	2095 (6'11")	2085 (6'10")	2165 (7'1")
E. Dumping clearance*	mm (ft.in)	2610 (8'7")	2635 (8'8")	2795 (9'2")	2675 (8'9")
F. Dumping reach*	mm (ft.in)	1680 (5'6")	1785 (5'10")	1780 (5'10")	1855 (6'1")
G. Overall tine width	mm (ft.in)	1875 (6'2")	2045 (6'9")	2045 (6'9")	2045 (6'9")
H. Tine length	mm (ft.in)	1120 (3'8")	1220 (4'0")	1220 (4'0")	1220 (4')
I. Max. tilt-back angle	degree	28	27	26	28.5
TIRE SIZE		14.00-24-12PR	17.5-25-12PR (L2)	20.5-25-12PR (L2)	17.5-25-12PR
Add. counterweight	kg (lb)	280 (620)	300 (660)	300 (660)	280 (620)

* At 30° discharge angle

** With high lift

Item	Model	WA320-5**	WA320-3**	WA320-3 CUSTOM* ³	WA380-3**
OPERATING WEIGHT	kg (lb)	13910 (30,670)	13920 (30,690)	13620 (30,030)	16960 (37,390)
A. OVERALL LENGTH	mm (ft.in)	8040 (26'5")	8165 (26'9")	8165 (26'9")	8740 (28'8")
B. OVERALL WIDTH	mm (ft.in)	2585 (8'6")	2585 (8'6")	2585 (8'6")	2695 (8'10")
C. Max. tine height with tine level	mm (ft.in)	3765 (12'4")	3745 (12'3")	3745 (12'3")	3870 (12'8")
D. Reach, max. tine height with tine level	mm (ft.in)	2155 (7'1")	2180 (7'2")	2180 (7'2")	2345 (7'8")
E. Dumping clearance*	mm (ft.in)	2860 (9'5")	2840 (9'4")	2840 (9'4")	2915 (9'7")
F. Dumping reach*	mm (ft.in)	1840 (6'0")	1865 (6'1")	1865 (6'1")	2005 (6'7")
G. Overall tine width	mm (ft.in)	2165 (7'1")	2165 (7'1")	2165 (7'1")	2250 (7'5")
H. Tine length	mm (ft.in)	1320 (4'4")	1320 (4'4")	1320 (4'4")	1420 (4'10")
I. Max. tilt-back angle	degree	27	27	27	28
TIRE SIZE		20.5-25-16PR (L3)	20.5-25-12PR	20.5-25-12PR	20.5-25-16PR
Add. counterweight	kg (lb)	520 (1,150)	325 (720)	750 (1,650)	750 (1,650)

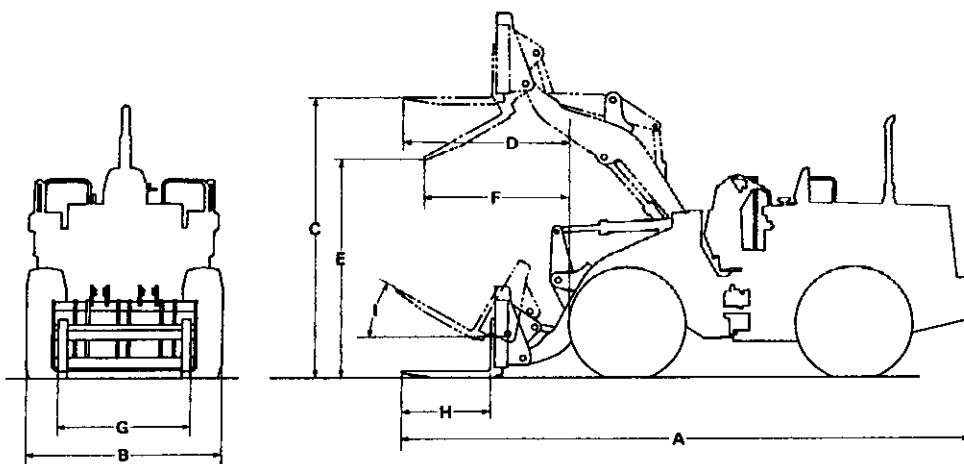
* At 30° discharge angle

** With ROPS cab

*³ With cab

Lumber Fork Specifications

WHEEL LOADERS



Item	Model	WA380-5**			
OPERATING WEIGHT	kg (lb)	16700 (36,820)			
A. OVERALL LENGTH	mm (ft.in)	8915 (29'3")			
B. OVERALL WIDTH	mm (ft.in)	2695 (8'10")			
C. Max. tine height with tine level	mm (ft.in)	3870 (12'8")			
D. Reach, max. tine height with tine level	mm (ft.in)	2345 (7'8")			
E. Dumping clearance*	mm (ft.in)	2915 (9'7")			
F. Dumping reach*	mm (ft.in)	2005 (6'7")			
G. Overall tine width	mm (ft.in)	2250 (7'5")			
H. Tine length	mm (ft.in)	1420 (4'10")			
I. Max. tilt-back angle	degree	28			
TIRE SIZE		20.5-25-20PR			
Add. counterweight	kg (lb)	708 (1,550)			

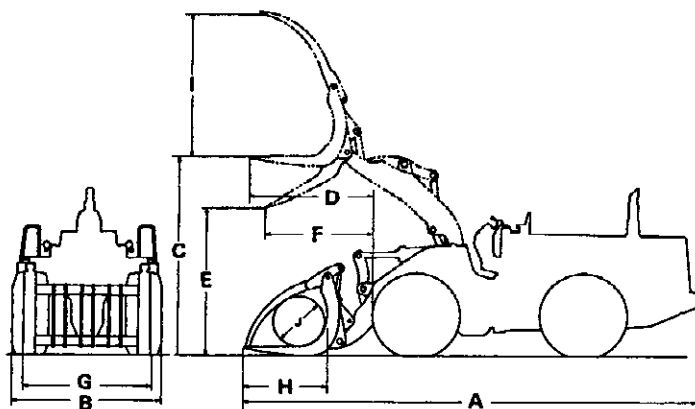
* At 30° discharge angle

** With ROPS cab

*3 With cab

Log Grapple Specifications

WHEEL LOADERS



Item		Model	WA320-5**	WA320-3*** CUSTOM	WA380-3**	WA380-5**
OPERATING WEIGHT		kg (lb)	13970 (30,800)	13680 (30,160)	16980 (37,430)	16790 (37,020)
A. OVERALL LENGTH		mm (ft.in)	7720 (25'4")	7845 (25'9")	8455 (27'9")	8627 (28'4")
B. OVERALL WIDTH		mm (ft.in)	2585 (8'6")	2585 (8'6")	2695 (8'10")	2695 (8'10")
C. Max. tine height with tine level		mm (ft.in)	3875 (12'9")	3855 (12'8")	3985 (13'1")	3985 (13'1")
D. Reach, max. tine height with tine level		mm (ft.in)	1855 (6'1")	1880 (6'2")	2080 (6'10")	2080 (6'10")
E. Dumping clearance*		mm (ft.in)	3095 (10'2")	3075 (10'1")	3140 (10'4")	3140 (10'4")
F. Dumping reach*		mm (ft.in)	1635 (5'4")	1660 (5'5")	1835 (6')	1835 (6')
G. Overall tine width		mm (ft.in)	2200 (7'3")	2200 (7'3")	2300 (7'7")	2300 (7'7")
H. Tine length		mm (ft.in)	1320 (4'4")	1320 (4'4")	1420 (4'8")	1420 (4'8")
I. Max. clamp opening height		mm (ft.in)	2280 (7'6")	2280 (7'6")	2415 (7'11")	2415 (7'11")
J. Top clamp min. closure diameter		mm (ft.in)	850 (2'9")	850 (2'9")	900 (2'11")	900 (2'11")
TIRE SIZE			20.5-25-16PR (L3)	20.5-25-12PR	20.5-25-16PR	20.5-25-20PR
Add. counterweight		kg (lb)	520 (1,150)	750 (1,650)	750 (1,650)	705 (1,550)

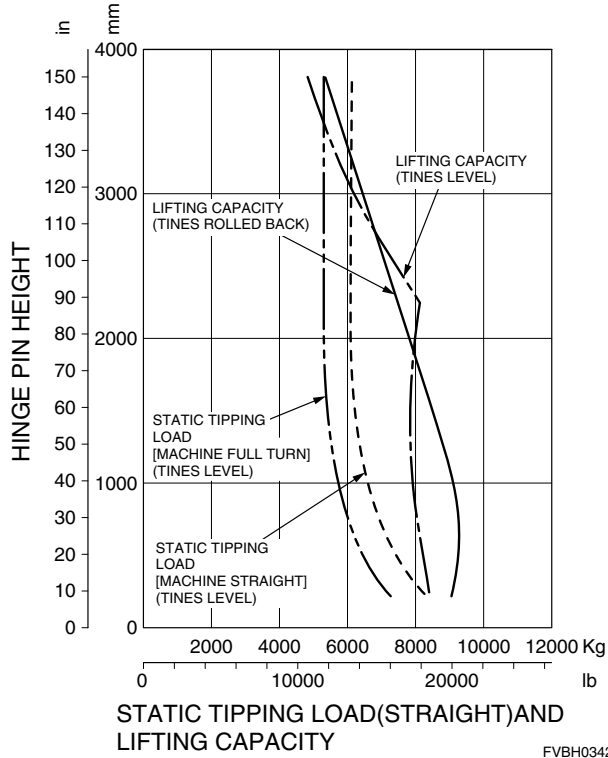
- * At 30° discharge angle
- ** With ROPS cab
- *** With steel cab

Item		Model	WA470-5**	WA470-3***	WA500-3***	
OPERATING WEIGHT		kg (lb)	22550 (49,710)	22790 (50,240)	33090 (72,950)	
A. OVERALL LENGTH		mm (ft.in)	9425 (31'0")	9315 (30'7")	10105 (33'2")	
B. OVERALL WIDTH		mm (ft.in)	2920 (9'7")	2920 (9'7")	3190 (10'6")	
C. Max. tine height with tine level		mm (ft.in)	4230 (13'11")	4230 (13'11")	4375 (14'4")	
D. Reach, max. tine height with tine level		mm (ft.in)	2315 (7'7")	2265 (7'5")	2590 (8'6")	
E. Dumping clearance*		mm (ft.in)	3315 (10'11")	3315 (10'11")	3300 (10'10")	
F. Dumping reach*		mm (ft.in)	2045 (6'9")	1995 (6'7")	2250 (7'5")	
G. Overall tine width		mm (ft.in)	2645 (8'8")	2645 (8'8")	2745 (9')	
H. Tine length		mm (ft.in)	1525 (5')	1525 (5')	1830 (6')	
I. Max. clamp opening height		mm (ft.in)	2765 (9'1")	2765 (9'1")	3035 (9'11")	
J. Top clamp min. closure diameter		mm (ft.in)	1000 (3'3")	1000 (3'3")	1150 (3'9")	
TIRE SIZE			23.5-25-24PR	23.5-25-20PR	29.5-25-22PR	
Add. counterweight		kg (lb)	1030 (2,270)	1045 (2,300)	2250 (4,960)	

- * At 30° discharge angle
- ** With ROPS cab
- *** Rear tires are filled with calcium chloride, with steel cab & ROPS canopy

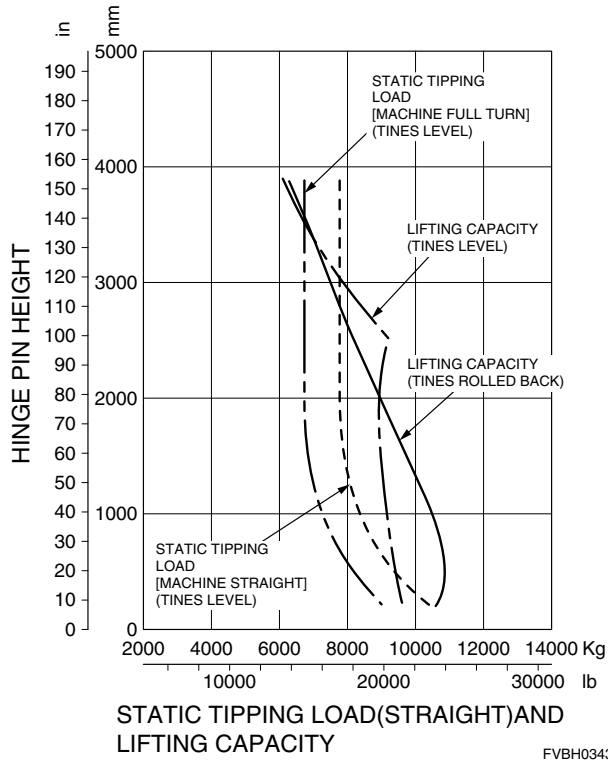
WA250-5

Curves based on machine equipped with 20.5-25-12PR (L2) TL and counterweight



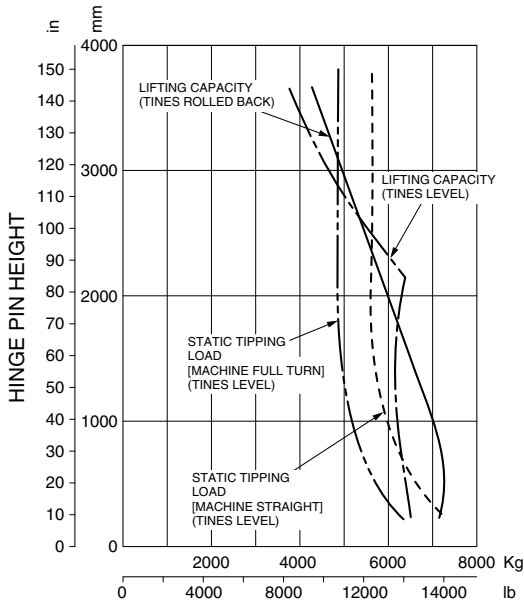
WA320-5

Curves based on machine equipped with 20.5-25-16PR (L3) TL and counterweight



WA200-5

Curves based on machine equipped with 17.00-25-12PR (L2) TL and counterweight

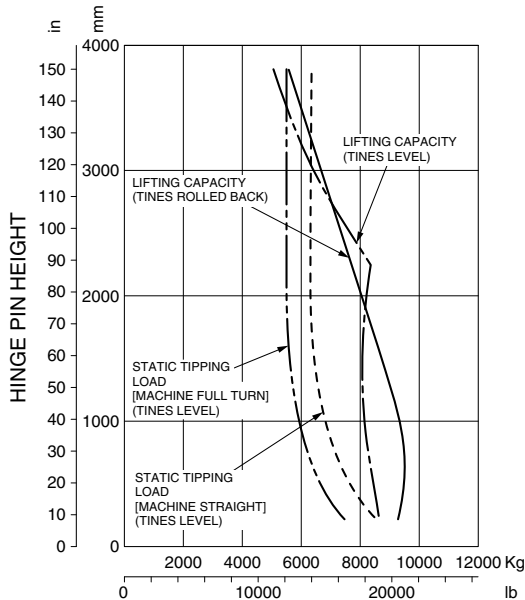


FVBH0344

STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA250-5

Curves based on machine equipped with 20.5-25-12PR (L2) TL and counterweight

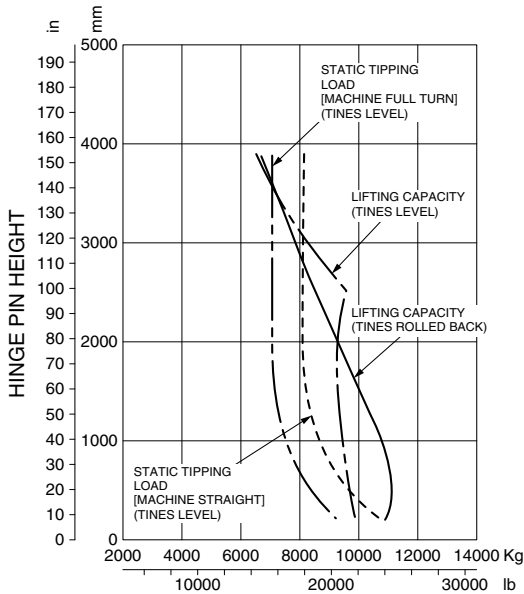


FVBH0345

STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA320-5

Curves based on machine equipped with 20.5-25-16PR (L3) TL and counterweight

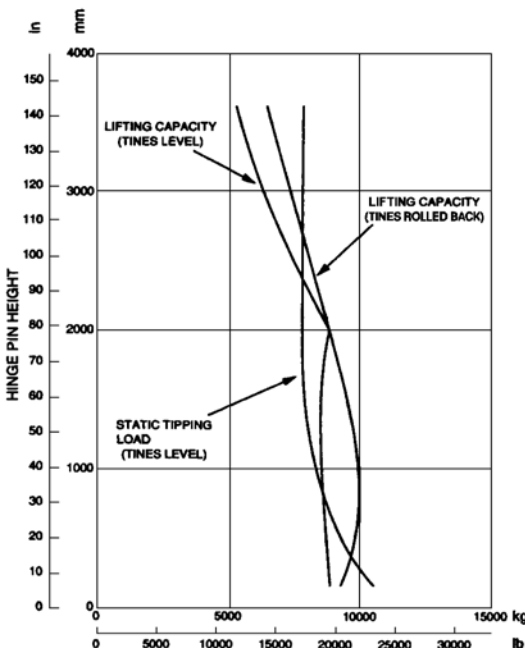


FVBH0346

STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA320-3 CUSTOM

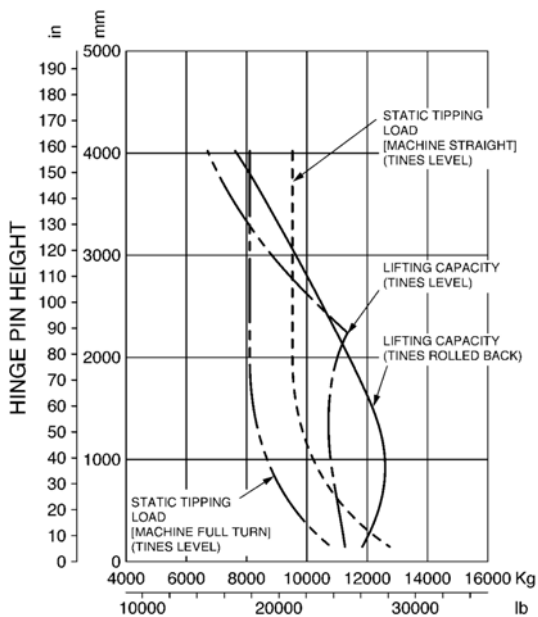
Curves based on machine equipped with 20.5-25-12PR (L3) TL and counterweight for logger



STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA380-3

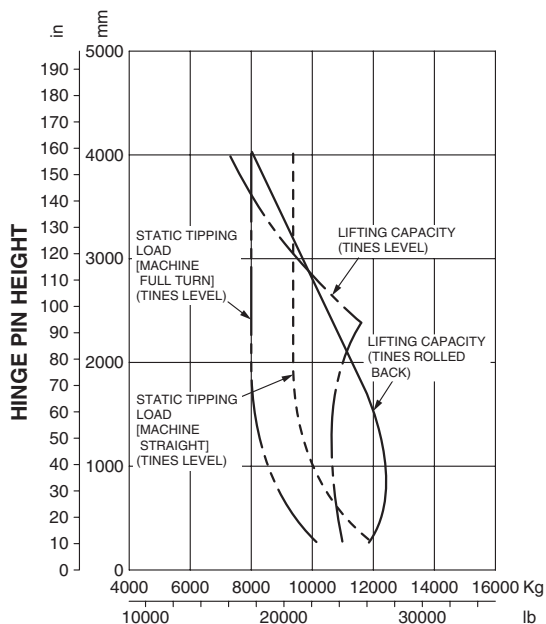
Curves based on machine equipped with 20.5-25-16PR (L3) TL and counterweight for logger



STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA380-5

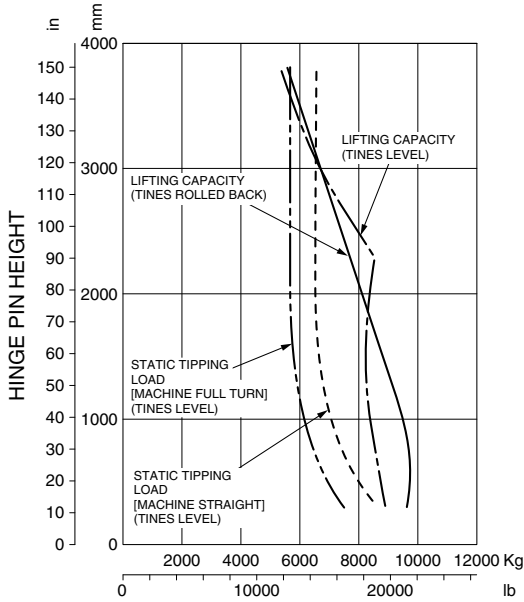
Curves based on machine equipped with 20.5-25-20PR (L3) TL and counterweight for logger



STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA250-5

Curves based on machine equipped with 20.5-25-12PR (L2) TL and counterweight

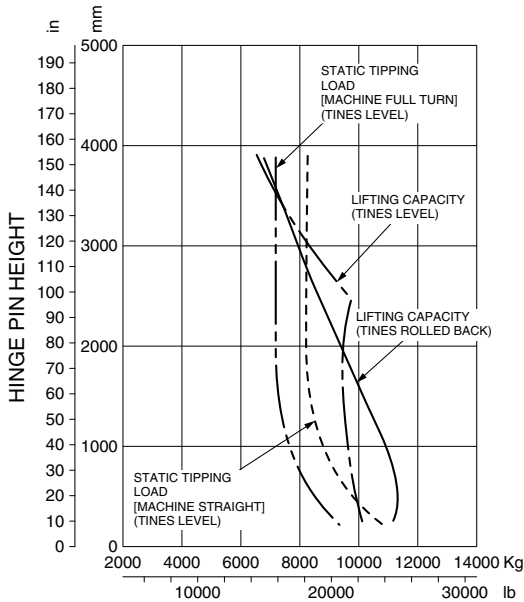


FVBH0347

STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA320-5

Curves based on machine equipped with 20.5-25-16PR (L3) TL and counterweight

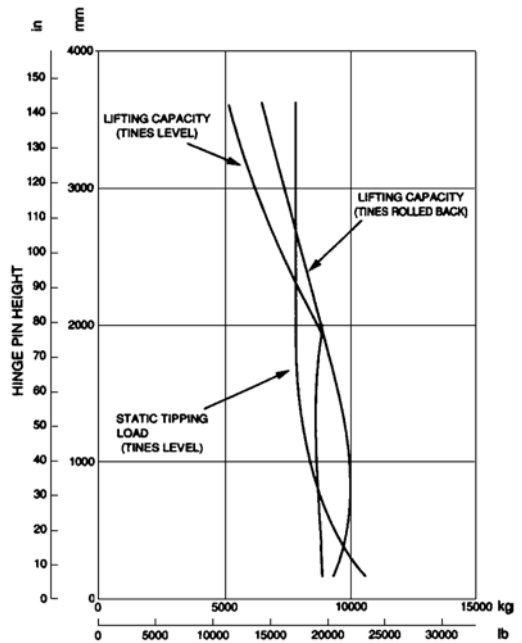


FVBH0348

STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA320-3 CUSTOM

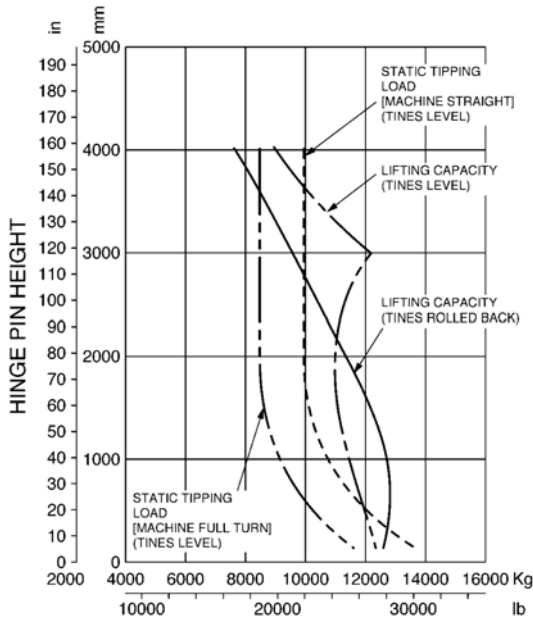
Curves based on machine equipped with 20.5-25-12PR (L3) TL and counterweight for logger



STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA380-3

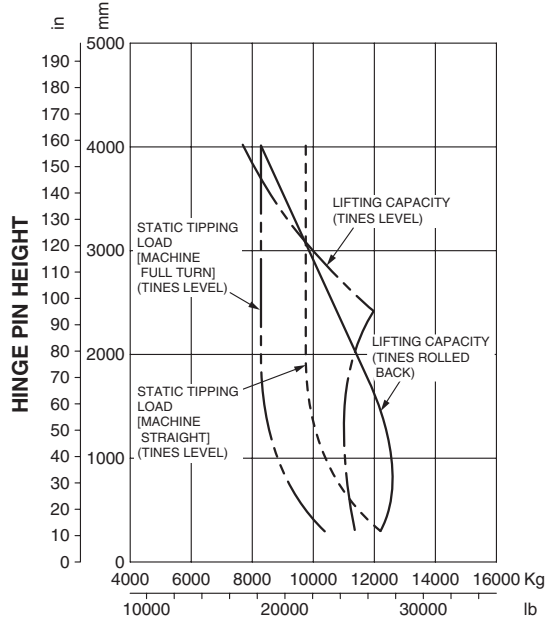
Curves based on machine equipped with 20.5-25-16PR (L3) TL and counterweight for logger



STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA380-5

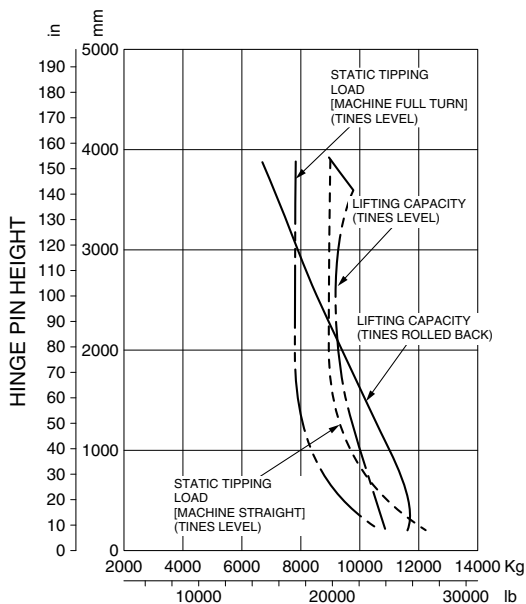
Curves based on machine equipped with 20.5-25-20PR (L3) TL and counterweight for logger



STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA320-5

Curves based on machine equipped with 20.5-25-16PR (L3) TL and counterweight

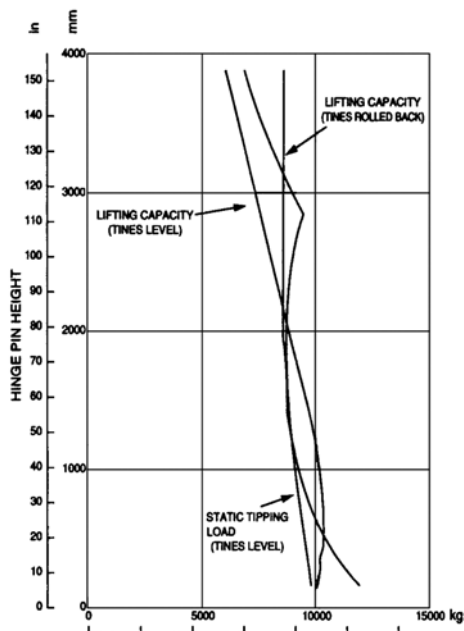


FVBH0349

STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA320-3 CUSTOM

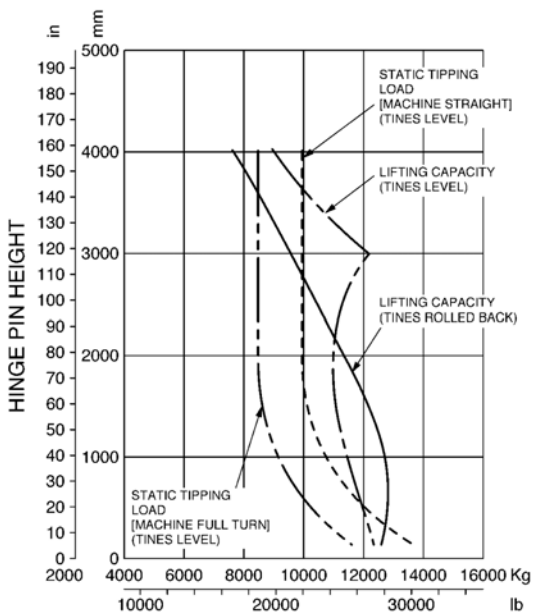
Curves based on machine equipped with 20.5-25-12PR (L3) TL and counterweight for logger



STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA380-3

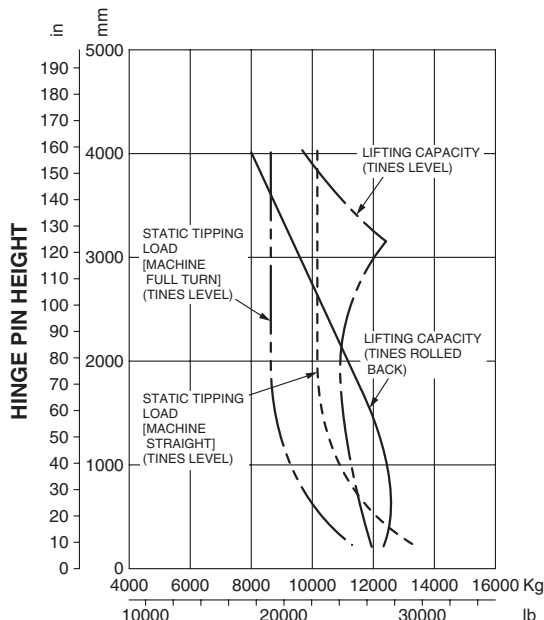
Curves based on machine equipped with 20.5-25-16PR (L3) TL and counterweight for logger



STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA380-5

Curves based on machine equipped with 20.5-25-20PR (L3) TL and counterweight for logger



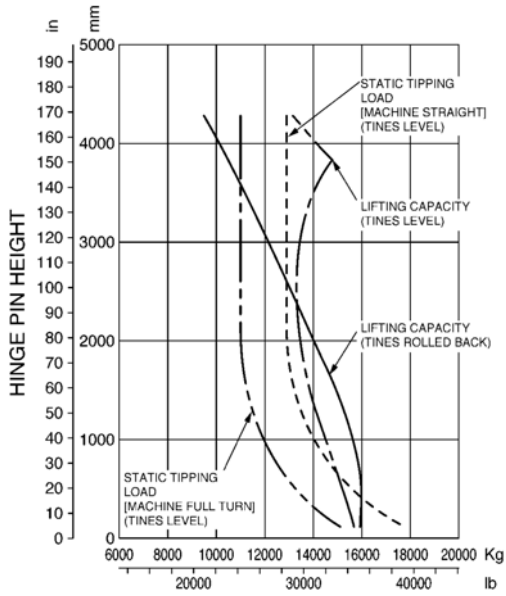
STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

WA470-3

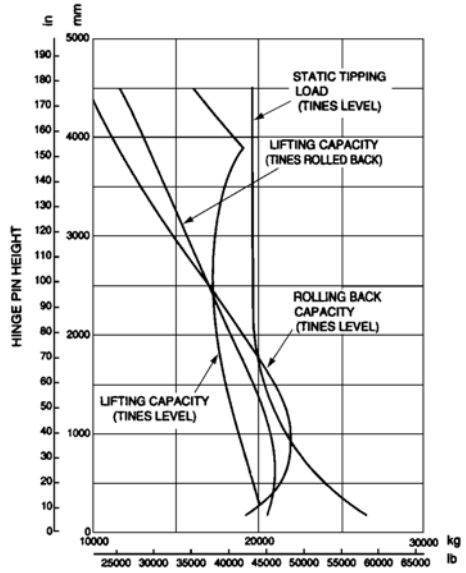
Curves based on machine equipped with 23.5-25-20PR (L3) TL and counterweight for logger

WA500-3

Curves based on machine equipped with 29.5-25-22PR (L3) TL and counterweight for logger



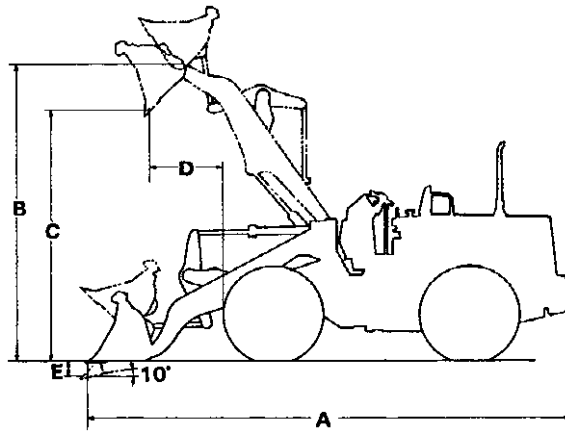
STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY



STATIC TIPPING LOAD (STRAIGHT) AND LIFTING CAPACITY

High Lift Boom Specifications

WHEEL LOADERS



Item		Model	WA120-3***	WA150-5***	WA180-3***	WA200-5***
OPERATING WEIGHT	kg (lb)		7660 (16,890)	7645 (16,850)	8830 (19,470)	10010 (22,070)
BACKET CAPACITY	m ³ (cu.yd)		1.2 (1.6)	1.3 (1.7)	1.5 (2.0)	1.7 (2.2)
A. OVERALL LENGTH	mm (ft.in)		6180 (20'3")	6320 (20'9")	6725 (22'1")	7485 (24'7")
OVERALL WIDTH	mm (ft.in)		2390 (7'10")	2390 (7'10")	2440 (8')	2550 (8'4")
B. Hinge pin height, max. height	mm (ft.in)		3745 (12'3")	4025 (13'2")	4015 (13'2")	4225 (13'10")
C. Dumping clearance*	mm (ft.in)		3030 (9'11")**	3310 (10'10")**	3250 (10'8")**	3410 (11'2")**
D. Dumping reach*	mm (ft.in)		980 (3'3")**	1020 (3'4")**	1060 (3'6")**	1040 (3'5")**
E. Digging depth	mm (ft.in)		225 (9")	285 (11'2")	335 (1'1")	435 (1'5")
TIRE SIZE			16.9-24-10PR	16.9-24-10PR	18.4-24-10PR	17.5-25-12PR
Add. counterweight	kg (lb)			200 (441)		300 (661)

- * At 45° discharge angle
 ** At 44° discharge angle
 *** With ROPS cab and B.O.C.

Item		Model	WA250-5***	WA250-3***	WA320-5***	WA320-3***
OPERATING WEIGHT	kg (lb)		11560 (25,490)	10640 (23,460)	14110 (31,110)	14210 (31,330)
BACKET CAPACITY	m ³ (cu.yd)		1.9 (2.5)	1.9 (2.5)	2.4 (3.1)	2.3 (3.0)
A. OVERALL LENGTH	mm (ft.in)		7515 (24'8")	7435 (24'5")	8040 (26'5")	7995 (26'3")
OVERALL WIDTH	mm (ft.in)		2685 (8'10")	2685 (8'10")	2740 (9'0")	2740 (8'12")
B. Hinge pin height, max. height	mm (ft.in)		4390 (14'5")	4300 (14'0")	4545 (14'11")	4480 (14'8")
C. Dumping clearance*	mm (ft.in)		3520 (11'6")	3440 (11'3")	3530 (11'7")	3530 (11'7")
D. Dumping reach*	mm (ft.in)		945 (3'1")	1040 (3'5")	1015 (3'4")	1015 (3'4")
E. Digging depth	mm (ft.in)		250 (9.8")	310 (1")	235 (9.3")	335 (1'1")
TIRE SIZE			17.5-25-12PR	17.5-25-12PR	20.5-25-12PR	20.5-25-12PR
Add. counterweight	kg (lb)		300 (661)		520 (1146)	750 (1650)

- * At 45° discharge angle
 *** With ROPS cab and B.O.C.

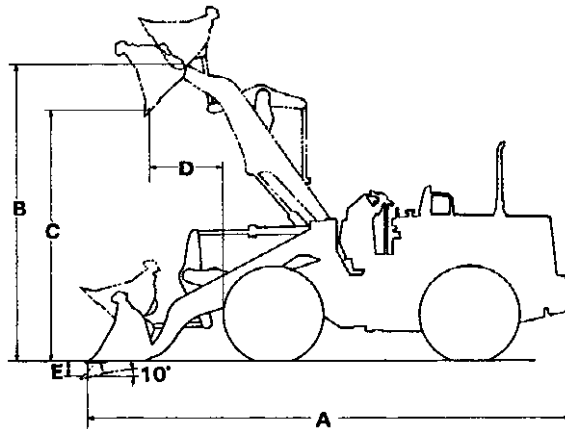
Item		Model	WA380-5***	WA380-3***	WA430-5***	
OPERATING WEIGHT	kg (lb)		18170 (40,060)	17100 (37,700)	19720 (43,470)	
BACKET CAPACITY	m ³ (cu.yd)		2.7 (3.5)	2.8 (3.7)	3.3 (4.3)	
A. OVERALL LENGTH	mm (ft.in)		8760 (28'9")	8450 (27'9")	8980 (29'6")	
OVERALL WIDTH	mm (ft.in)		2905 (9'6")	2905 (9'6")	3050 (10')	
B. Hinge pin height, max. height	mm (ft.in)		4625 (15'2")	4560 (15')	4730 (15'6")	
C. Dumping clearance*	mm (ft.in)		3575 (11'9")	3530 (11'7")	3635 (11'11")	
D. Dumping reach*	mm (ft.in)		1180 (3'10")	1125 (4')	1155 (3'9")	
E. Digging depth	mm (ft.in)		320 (1'1")	320 (1'1")	440 (1'5")	
TIRE SIZE			23.5-25-16PR	20.5-25-16PR	23.5-25-16PR	
Add. counterweight	kg (lb)		700 (1543)	750 (1650)	775 (1708)	

- * At 45° discharge angle
 *** With ROPS cab and B.O.C.

WA500 over see PERFORMANCE DATA

High Lift Boom Specifications

WHEEL LOADERS



Item	Model	WA470-5***	WA470-3		
OPERATING WEIGHT	kg (lb)	23770 (52,400)	23075 (50,870)		
BACKET CAPACITY	m ³ (cu.yd)	3.8 (4.5)	3.8 (4.5)		
A. OVERALL LENGTH	mm (ft.in)	9515 (31'3")	9360 (30'9")		
OVERALL WIDTH	mm (ft.in)	3170 (10'5")	3170 (10'5")		
B. Hinge pin height, max. height	mm (ft.in)	4870 (16'0")	4870 (16'0")		
C. Dumping clearance*	mm (ft.in)	3750 (12'4")	3760 (12'4")		
D. Dumping reach*	mm (ft.in)	1355 (4'5")	1305 (4'3")		
E. Digging depth	mm (ft.in)	440 (1'5")	435 (1'5")		
TIRE SIZE		26.5-25-16PR	26.5-25-16PR		
Add. counterweight	kg (lb)	1045 (2304)	1045 (2304)		

** At 44° discharge angle

*** With ROPS cab and B.O.C.

WA500 over see PERFORMANCE DATA

Tire Availability

WHEEL LOADERS

WA50-6	WA120-3	WA150-6	WA150-5	WA180-3	WA200-6
•15.5/60-18-8PR L2 T/L	•16.9-24-10PR L2 T/L	•16.9-24-10PR L2 T/L	•16.9-24-10PR L2 T/L	•18.4-24-10PR L2 T/L	•17.5-25-12PR L2 T/L
	16.9-24-10PR L3 T/L	15.5-25-8PR L2 T/L	16.9-24-10PR L3 T/L	14.00-24-12PR L2 T/L	17.5-25-12PR L3 T/L
	14.00-24-12PR L2 T/L	17.5-25-12PR L2 T/L	14.00-24-12PR L2 T/L	14.00-24-12PR L3 T/L	20.5-25-12PR L2 T/L
	15.5-25-8PR L2 T/L		15.5-25-8PR L2 T/L	15.5-25-12PR L2 T/L	20.5-25-12PR L3 T/L
	15.5-25-8PR L3 T/L		15.5-25-8PR L3 T/L	15.5-25-12PR L3 T/L	
	17.5-25-12PR L2 T/L		17.5-25-12PR L2 T/L	17.5-25-12PR L2 T/L	
	17.5-25-12PR L3 T/L		17.5-25-12PR L3 T/L	17.5-25-12PR L3 T/L	
	15.5 R25		15.5 R25	17.5 R25	

WA200-5	WA200PZ-6	WA250-6	WA250-5	WA250PZ-6	WA250-3
•17.5-25-12PR L2 T/L	•20.5-25-12PR L2 T/L	•17.5-25-16PR L2 T/L	•17.5-25-12PR L2 T/L	•20.5-25-12PR L2 T/L	•17.5-25-12PR L2 T/L
17.5-25-12PR L3 T/L	17.5-25-12PR L2 T/L	17.5-25-16PR L3 T/L	17.5-25-12PR L3 T/L	17.5-25-16PR L3 T/L	17.5-25-12PR L3 T/L
20.5-25-12PR L2 T/L	17.5-25-12PR L3 T/L	20.5-25-12PR L2 T/L	20.5-25-12PR L2 T/L	17.5-25-16PR L2 T/L	20.5-25-12PR L2 T/L
20.5-25-12PR L3 T/L		20.5-25-12PR L3 T/L	20.5-25-12PR L3 T/L	20.5-25-12PR L3 T/L	20.5-25-12PR L3 T/L

WA320-6	WA320PZ-6	WA320-5	WA320-3	WA320-3 CUSTOM	WA380-6
•20.5-25-12PR L3 T/L	•20.5-25-12PR L2 T/L	•20.5-25-12PR L3 T/L	•20.5-25-12PR L3 T/L	•20.5-25-12PR L3 T/L	•20.5-25-16PR L3 T/L
20.5-25-12PR L2 T/L	20.5-25-12PR L3 T/L	20.5-25-12PR L2 T/L	20.5-25-12PR L2 T/L	20.5-25-12PR L3 W/T	23.5-25-16PR L3 T/L
			17.5-25-12PR L2 T/L		
			17.5-25-12PR L3 T/L		
			20.5 R25 L2		

- : Standard tire
- T/L : Tubeless tire
- W/T : Tubed tire
- SB : Steel breaker tire
- SSB : Side steel breaker tire

Tire Availability

WHEEL LOADERS

WA380-5	WA380-3	WA430-6	WA430-5	WA470-5	WA470-6
●20.5-25-16PR L3 T/L	●20.5-25-16PR L3 T/L	●23.5-25-16PR L3 T/L	●23.5-25-16PR L3 T/L	●23.5-25-20PR L3 T/L	●26.5-25-16PR L3 T/L
23.5-25-16PR L3 T/L	20.5-25-16PR L2 T/L	26.5-25-16PR L2 T/L	26.5-25-16PR L2 T/L	23.5-25-20PR L2 T/L	23.5-25-20PR L3 T/L
23.5-25-16PR L4 T/L	23.5-25-12PR L2 T/L			26.5-25-16PR L3 T/L	23.5-25-20PR L2 T/L
23.5-25-20PR L5 T/L	23.5-25-12PR L3 T/L			26.5-25-20PR L4 T/L	26.5-25-20PR L4 T/L
	23.5-25-16PR L2 T/L			26.5-25-20PR L5 T/L	
	23.5-25-16PR L3 T/L			26.5-25-24PR L3 T/L	
	23.5-25-20PR L2 T/L				
	23.5-25-20PR L3 T/L				

WA470-3	WA480-6	WA480-5	WA500-6 WA500-6R	WA500-3	WA600-6 WA600-6R
●23.5-25-20PR L3 T/L	●26.5-25-20PR L3 T/L	●26.5-25-20PR L3 T/L	●29.5-25-22PR L3 T/L	●26.5-25-20PR L3 T/L	●35/65-33-36PR L4 T/L
23.5-25-20PR L2 T/L	26.5-25-20PR L4 T/L	26.5-25-20PR L3 T/L		26.5-25-20PR L3 W/T	35/65-33-36PR L5 T/L
26.5-25-16PR L3 T/L		26.5-25-20PR L5 T/L		26.5-25-20PR L3 W/T SB	35/65-33-42PR L4 T/L
26.5-25-20PR L3 T/L		26.5-25-20PR L4 T/L		26.5-25-20PR L4 T/L	35/65 R33 L4 T/L
26.5-25-20PR L4 T/L		26.5-25-24PR L3 T/L		26.5-25-20PR L5 T/L	35/65 R33* L5 T/L
26.5-25-20PR L5 T/L				26.5-25-24PR L3 T/L	
				29.5-25-22PR L3 T/L	
				29.5-25-22PR L3 W/T	
				29.5-25-22PR L4 T/L	
				29.5-25-22PR L5 T/L	
				29.5-25-28PR L4 T/L	

WA600-3	WA700-3	WA800-3E0	WA800-3	WA900-3E0	WA900-3
●35/65-33-24PR L4 T/L	●45/65-39-36PR L5 T/L	●45/65-45-46PR L5 T/L	●45/65-45-46PR L5 T/L	●45/65-45-58PR L5 T/L	●45/65-45-58PR L5 T/L
29.5-29-28PR L4 T/L	41.25/70-39-34PR L5 T/L	45/65-45-50PR L5 T/L	45/65-45-50PR L4 T/L	45/65 R45 L5 T/L	
35/65-33-24PR L5 T/L		45/65 R45 L5 T/L			
35/65-33-30PR L5 T/L					
35/65-33-30PR L4 T/L					

- : Standard tire
- T/L : Tubeless tire
- W/T : Tubed tire
- SB : Steel breaker tire
- SSB : Side steel breaker tire

WA1200-3	WA320-6*	WA380-6*	WA430-6*	WA470-6*	WA480-6*
•55/80-57-68PR L5 T/L	•20.5-25-12PR L3 T/L	•23.5-25-16PR L3 T/L	•23.5 R25 L3 radial	•26.5 R25 L3 radial	•26.5 R25 L3 radial
65/65-57-62PR L5 T/L	20.5-25-12PR L2 T/L	20.5-25-16PR L3 T/L			

WA500-6*	WA200PZ-6***	WA250PZ-6***	WA320PZ-6***	WA65-6**	WA70-6**
•26.5 R25XHAT* L3 radial	•20.5-25-12PR L2	•20.5-25-12PR L2	•20.5-25-12PR L2	•12.0-18	•12.5-18
	17.5-25-16PR L3	17.5-25-16PR L2	20.5-25-12PR L3		
	17.5-25-16PR L3	17.5-25-16PR L3			
		20.5-25-12PR L3			

WA80-6**	WA90-6**	WA100M-6**	WA150PZ-5**	WA200PZ-6**	WA250PZ-6**
•405/70 R18	•405/70 R20	•455/70 R24	•17.5 R25 L-3	•20.5 R25 L2	•20.5 R25 L2
			17.5 R25 L-2	20.5 R25 L3	20.5 R25 L3
			17.5 R25 L-4	20.5 R25 L5	20.5 R25 L5
			17.5 R25 L-5	17.5 R25 L3	
				17.5 R25 L3	
				17.5 R25 L5	

WA250PZ-6**	WA320PZ-6**	WA380-6**	WA430-6**	WA470-6**	WA480-6**
•20.5 R25	•20.5 R25 L2	•23.5 R25 L3	•23.5 R25 L3	•26.5 R25 L3	•26.5 R25 L3
20.5 R25 L2	20.5 R25 L3	650/65 R25	750/65 R25	23.5 R25 L2	26.5 R25 L2
20.5 R25 L3	20.5 R25 L5	23.5 R25 L2	650/65 R25	23.5 R25 L4	26.5 R25 L4
20.5 R25 L5	23.5 R25 L3	23.5 R25 L4	23.5 R25 L2	23.5 R25 L5	26.5 R25 L5
		23.5 R25 L5	23.5 R25 L4		
			23.5 R25 L5		
			26.5 R25 L2		
			26.5 R25 L3		

• : Standard tire
T/L : Tubeless tire
W/T : Tubed tire
SB : Steel breaker tire

SSB : Side steel breaker tire
* : USA source
** : Germany source
*** : for USA

WA500-3**
•29.5 R25 L3
29.5 R25 L4
29.5 R25 L5
26.5 R25

- : Standard tire
- ** : Germany source

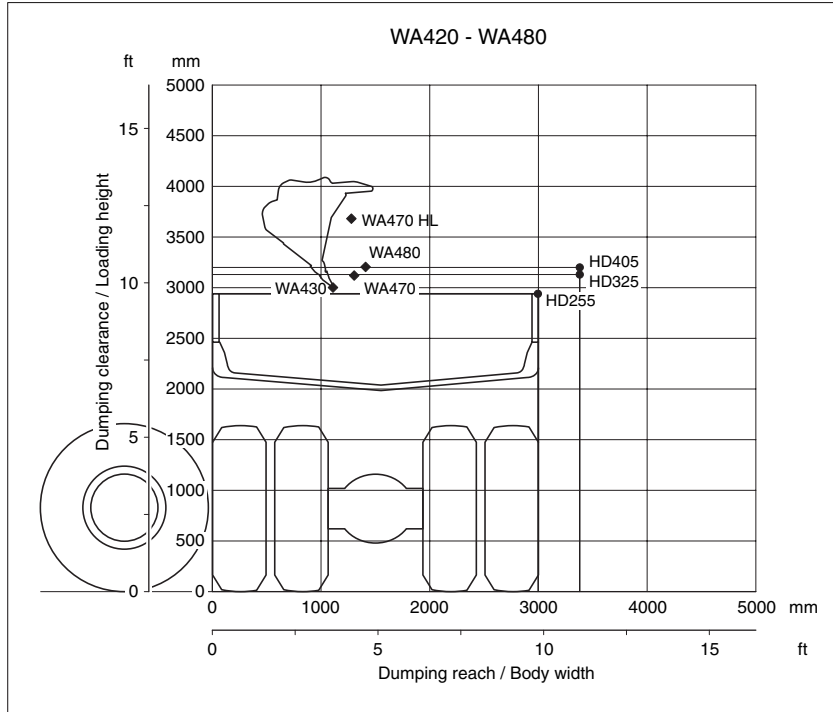


Chart shows dumping reach and dumping clearance of standard size buckets. HL means high lift boom.

- ◆ : Indicates dumping reach and clearance at the end of teeth or BOC.
- : Indicates the top corner of body.

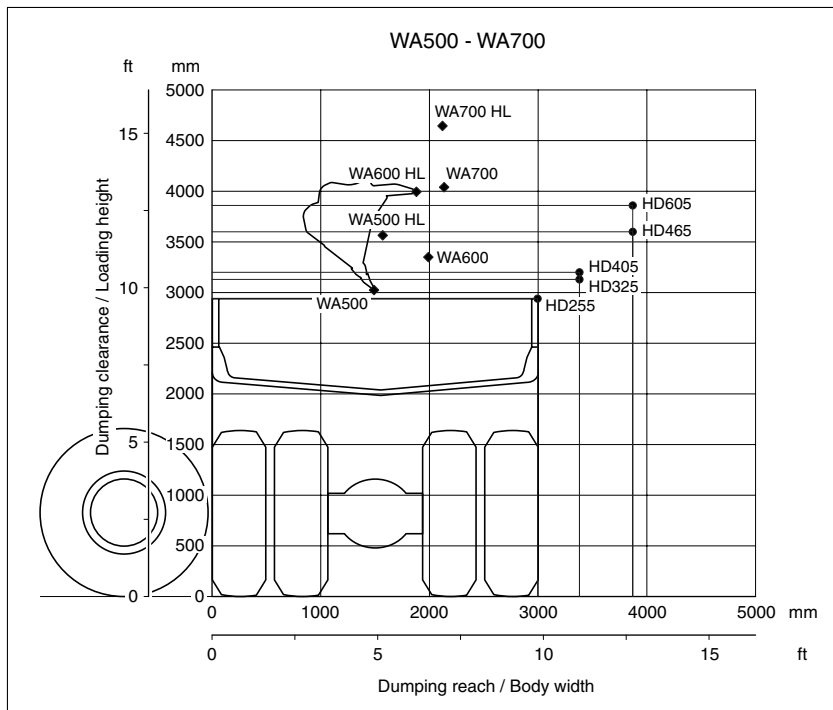


Chart shows dumping reach and dumping clearance of standard size buckets. HL means high lift boom.

- ◆ : Indicates dumping reach and clearance at the end of teeth or BOC.
- : Indicates the top corner of body.

Wheel Loader and Dump Truck Combination

WHEEL LOADERS

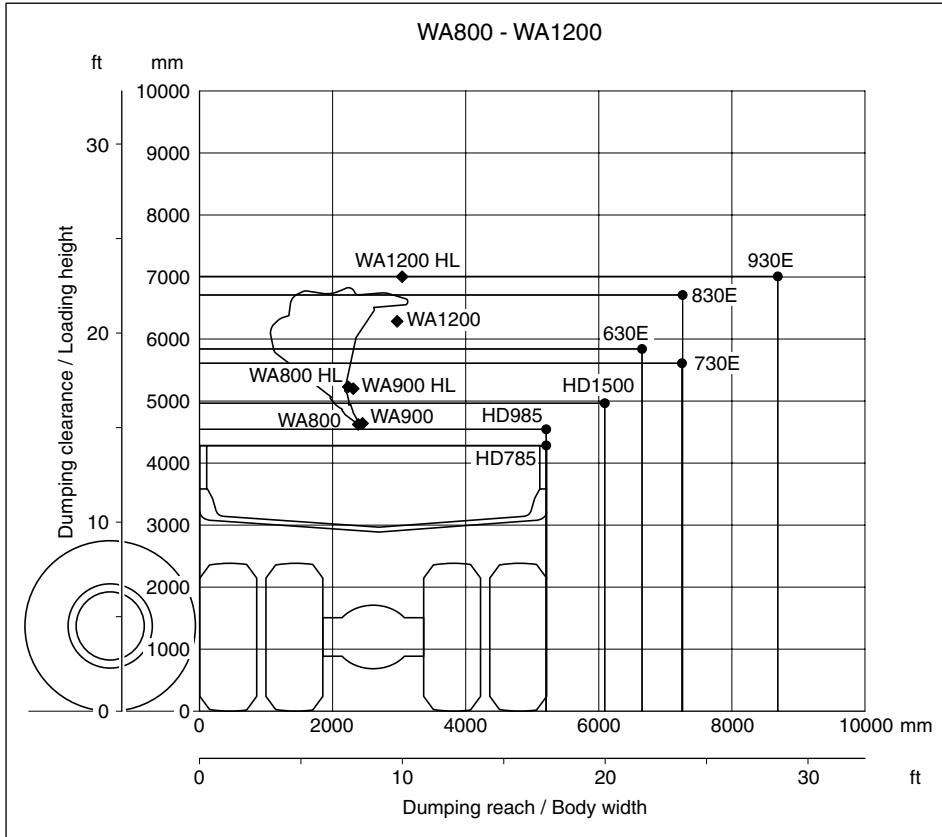


Chart shows dumping reach and dumping clearance of standard size buckets. HL means high lift boom.

◆ : Indicates dumping reach and clearance at the end of teeth or BOC.

● : Indicates the top corner of body.

Wheel Loader and Dump Truck Combination

WHEEL LOADERS

Wheel loader				Dump truck (Loading height)*1					
Model	Heaped bucket capacity m ³ (cu.yd)	Bucket type	*1 Dumping clearance. At the end of teeth or BOC mm (ft.in)	HD255 (2975 mm) (9'9")	HD325-6 (3200 mm) (10'6") HD325-7 (3220 mm) (10'7")	HD405-6 (3430 mm) (11'3") HD405-7 (3450 mm) (11'4")	HD465 (3600 mm) (11'10")	HD605 (3860 mm) (12'8")	HD785 (4285 mm) (14'1")
				Payload in ton (U.S. ton)					
				25 (27.6)	36.5 (40)	41 (55)	55 (61)	63 (69)	91 (100)
				17.7 m ³ (23.2 yd ³)	24 m ³ (31.4 yd ³)	27.3 m ³ (35.7 yd ³)	34.2 m ³ (44.7 yd ³)	40 m ³ (52.3 yd ³)	60 m ³ (78.5 yd ³)
WA430	3.5 (4.6)	General purpose (stock pile) with bolt-on cutting edges	3020 (9'11")	4					
	3.3 (4.3)	General purpose (stock pile) with teeth	2895 (9'6")	4					
WA470	4.2 (5.5)	General purpose (stock pile) with bolt-on cutting edges	3120 (10'3")	3					
	3.9 (5.1)	General purpose (stock pile) with teeth	2995 (9'10")	4					
WA480	4.6 (6.0)	General-purpose bucket with bolt-on cutting edges	3205 (10'6")	3	4				
	4.3 (5.6)	General-purpose bucket with teeth	3080 (10'1")	3					
WA500	4.3 (5.6)	General purpose (excavating, straight edges) with teeth	3025 (9'11")	3					
	4.3 (5.6)	Spade nose rock bucket with tip teeth	2770 (9'1")						
WA500 High lift	4.2 (5.5)	General purpose (excavating, straight edges) with teeth	3565 (11'8")	3	5	5			
WA600	6.1 (8.0)	Spade nose rock bucket with teeth	3350 (11'0")	2	3	4			
WA600 High lift	5.6 (7.3)	Spade nose rock bucket with teeth	3995 (13'1")	2	4	4	5	6	
WA700	8.7 (11.4)	Spade nose rock bucket with teeth	4040 (13'3")	2	2	3	4	4	
WA700 High lift	8.0 (10.5)	Spade nose rock bucket with teeth	4645 (15'3")	2	3	3	4	4	6

Wheel loader				Dump truck (Loading height)*1						
Model	Heaped bucket capacity m ³ (cu.yd)	Bucket type	*1 Dumping clearance. At the end of teeth or BOC mm (ft.in)	HD465 (3600 mm) (11'10")	HD605 (3860 mm) (12'8")	HD785 (4285 mm) (14'1")	HD1500 (4965 mm) (16'3")	730E (5610 mm) (18'5")	830E (6710 mm) (22'0")	930E (7010 mm) (23'0")
				Payload m ton (U.S. ton)						
				55 (61)	63 (69)	91 (100)	150 (164)	186 (205)	231 (255)	290 (320)
				34.2 m ³ (44.7 yd ³)	40 m ³ (52.3 yd ³)	60 m ³ (78.5 yd ³)	78 m ³ (102 yd ³)	111 m ³ (145 yd ³)	147 m ³ (193 yd ³)	211 m ³ (276 yd ³)
WA800	11.0 (14.4)	Spade nose rock bucket with teeth	4630 (15'2")	3	3	5				
WA800 High lift	10.0 (13.1)	Spade nose rock bucket with teeth	5200 (17'1")	3	4	5	8			
WA900	13.0 (17.0)	Spade nose rock bucket with teeth	4640 (15'3")	2	3	4				
WA900 High lift	11.5 (15.0)	Spade nose rock bucket with teeth	5230 (17'3")	3	3	4	7			
WA1200	20.0 (26.2)	Spade nose rock bucket with teeth	6285 (20'7")			3	4	5		
WA1200 High lift	18.0 (23.5)	Spade nose rock bucket with teeth	7005 (23'0")			3	4	6	7	9

Number of loading times is calculated based on following condition.

1. Calculate number of loading times from maximum payload of dump truck. Please see formula 1.
2. Calculate number of loading times from body capacity of dump truck. Please see formula 2.
3. Adopt lower number between formula 1 and formula 2.

Formula 1

Number of loading = Payload of truck (metric tonnes) / (Bucket capacity of loader (m³) × loose density × bucket factor)

Formula 2

Number of loading = Body capacity (cubic meter) / (Bucket capacity of loader (m³) × bucket factor)

We adopt following condition.

Density = 1.8 metric tonnes per cubic meter

Bucket factor = 1.0

Wheel Loader and Dump Truck Combination

WHEEL LOADERS

*1: Dumping clearance and loading height change depending on tires.

Above combination is determined by following method;

(1) Suitable loading times (n): 3-5 times

$$n = \frac{\text{Max. payload of dump truck}}{\text{Bucket capacity} \times \text{Bucket fill factor} \times \text{Specific weight}}$$

or

$$n = \frac{\text{Heaped capacity of dump truck}}{\text{Bucket capacity} \times \text{Bucket fill factor}}$$

(2) Dumping clearance (DC)

Small and medium sized loaders: $DC \geq H$

Large sized loaders: $DC \geq H + (W/12)$

(3) Dumping reach (DR)

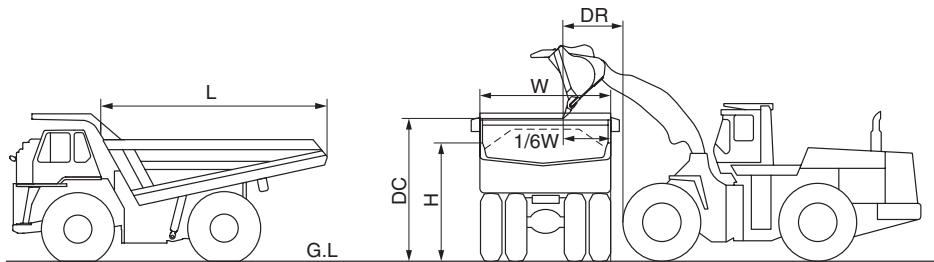
Small and medium sized loaders: $DR \geq (W/6) + 500 \text{ mm}$

Large sized loaders: $DC \geq W/3$

(4) Body length (L)

The dump truck's body length should be 1.3 to 1.7 times longer than the width of the bucket.

WA500-6 (General purpose bucket with BOC)	Dimension	HD255-5	HD325-6	HD325-7 HD325-7R
Dumping clearance (DC)	3295 (10'10")	Body height (H)	2940 (9'8")	3220 (10'7")
Dumping reach (DR)	1500 (4'11")	Body width (W)	2995 (9'10")	3380 (11'1")
Bucket width	3400 (11'2")	Body length (L)	4570 (15')	5500 (18'1")



FVBH0298

WA470-6/WA470-5 (Stockpile bucket)	Dimension	HD255-5
Dumping clearance (DC)	3120 (10'3")	Body height (H)
Dumping reach (DR)	1305 (4'3")	Body width (W)
Bucket width	3170 (10'5")	Body length (L)

A480-6/WA480-5 (Stockpile bucket)	Dimension	HD255-5
Dumping clearance (DC)	3205 (10'6")	Body height (H)
Dumping reach (DR)	1410 (4'8")	Body width (W)
Bucket width	3170 (10'5")	Body length (L)

WA500-3 (Excavating bucket with straight edge)	Dimension	HD255-5	HD325-6	HD325-7 HD325-7R
Dumping clearance (DC)	3025 (9'11")	Body height (H)	2940 (9'8")	3220 (10'7")
Dumping reach (DR)	1490 (4'11")	Body width (W)	2995 (9'10")	3380 (11'1")
Bucket width	3460 (11'4")	Body length (L)	4570 (15')	5500 (18'1")

WA600-6 (Excavating bucket with spade nose)	Dimension	HD255-5	HD325-6	HD405-6	HD405-7R
Dumping clearance (DC)	3995 (13'1")	Body height (H)	2940 (9'8")	3200 (10'6")	3430 (11'3")
Dumping reach (DR)	1800 (5'11")	Body width (W)	2995 (9'10")	3380 (11'1")	3380 (11'1")
Bucket width	3685 (12'1")	Body length (L)	4570 (15')	5500 (18'1")	5590 (18'4")

WA600-3 (Excavating bucket with spade nose)	Dimension	HD255-5	HD325-6	HD405-6	HD405-7R
Dumping clearance (DC)	3350 (11')	Body height (H)	2940 (9'8")	3200 (10'6")	3430 (11'3")
Dumping reach (DR)	1990 (6'6")	Body width (W)	2995 (9'10")	3380 (11'1")	3380 (11'1")
Bucket width	3685 (12'1")	Body length (L)	4570 (15')	5500 (18'1")	5590 (18'4")

WA700-3 (Excavating bucket with spade nose)	Dimension	HD325-7 HD325-7R	HD325-6	HD405-7 HD405-7R	HD405-6	HD465-7E0 HD465-7 HD465-7R	HD605-7E0 HD605-7 HD605-7R	HD785-5
Dumping clearance (DC)	4040 (13'3")	Body height (H)	3220 (10'7")	3200 (10'6")	3450 (11'4")	3430 (11'3")	3600 (11'10")	3860 (12'8")
Dumping reach (DR)	2135 (7')	Body width (W)	3380 (11'1")	3380 (11'1")	3380 (11'1")	3380 (11'1")	3870 (12'8")	3870 (12'8")
Bucket width	4330 (14'2")	Body length (L)	5500 (18'1")	5500 (18'1")	5590 (18'4")	5590 (18'4")	6450 (21'2")	6600 (21'8")

WA800-3 (Excavating bucket)	Dimension	HD465-7	HD605-7	HD785-5	HD785-7
Dumping clearance (DC)	4630 (15'2")	Body height (H)	3600 (11'10")	3860 (12'8")	4285 (14'1")
Dumping reach (DR)	2385 (7'10")	Body width (W)	3870 (12'8")	3870 (12'8")	4880 (16')
Bucket width	4810 (15'7")	Body length (L)	6450 (21'2")	6600 (21'8")	7480 (24'6")

WA900-3	Dimension	HD465-7	HD605-7	HD785-5	HD785-7
Dumping clearance (DC)	4640 (15'3")	Body height (H)	3600 (11'10")	3860 (12'8")	4285 (14'1")
Dumping reach (DR)	2450 (8')	Body width (W)	3870 (12'8")	3870 (12'8")	4880 (16')
Bucket width	4810 (15'9")	Body length (L)	6450 (21'2")	6600 (21'8")	7480 (24'6")

WA1200-3	Dimension	HD785-5	HD785-7	HD1500-7
Dumping clearance (DC)	6285 (20'7")	Body height (H)	4285 (14'1")	4965 (16'3")
Dumping reach (DR)	2970 (9'9")	Body width (W)	4880 (16')	5200 (17'1")
Bucket width	6400 (21'0")	Body length (L)	7480 (24'6")	7625 (25')

Standard Production – Loading (m³/h)

Cycle Time (min)	Cycles Per Hr	Bucket Size** (cu.m)																
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5			
0.35	171				White area indicates average production													
0.40	150	150	225	300	375	450												
0.45	133	133	200	266	332	400	466	530	600	665								
0.50	120	120	180	240	300	360	420	480	540	600	660	720	780	840	900			
0.55	109	109	164	218	272	328	382	436	480	545	600	655	705	785	820			
0.60	100	100	180	200	250	300	350	400	450	500	550	600	650	700	750			
0.65	92	92	138	184	230	278	322	368	416	460	505	555	600	645	690			
0.70	86						300	342	386	430	471	515	555	600	645			
0.75	80										440	480	520	560	600			

Cycle Time (min)	Cycles Per Hr	Bucket Size** (cu.m)																
		8.0	8.5	9.0	9.5	10.0	10.5	11.0	12.0	13.0	14.0	16.0	18.0	20.0				
0.35	171				White area indicates average production													
0.40	150																	
0.45	133																	
0.50	120	960	1020	1080	1140	1200	1200	1320	1440	1560	1680	1920	2160	2400				
0.55	109	870	925	980	1040	1090	1150	1200	1310	1420	1530	1750	1960	2180				
0.60	100	800	850	900	950	1000	1050	1110	1200	1300	1400	1600	1800	2000				
0.65	92	735	780	830	875	920	965	1010	1110	1200	1290	1480	1660	1850				
0.70	86	685	730	770	815	855	900	945	1030	1110	1200	1370	1540	1710				
0.75	80	640	680	720	780	800	840	880	960	1040	1120	1280	1440	1600				

* Actual production = (Standard production) × (Bucket fill factor) × (Job efficiency)

** Bucket size: Heaped bucket capacity

Bucket fill factor (K)

Loading conditions	K
Easy loading	1.0 ~ 1.1
Average loading	0.85 ~ 0.95
Rather difficult loading	0.8 ~ 0.85
Difficult loading	0.75 ~ 0.8

Job efficiency (E)

Operating conditions	E
Good	0.83
Average	0.75
Rather poor	0.67
Poor	0.58

SECTION **3B**

WHEEL DOZERS

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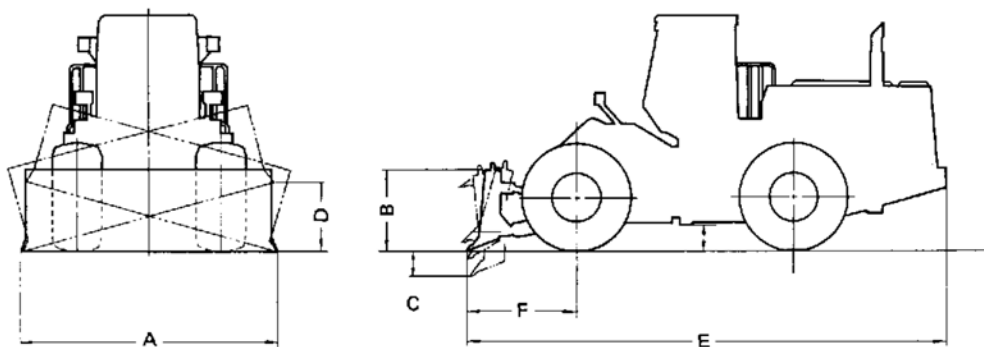
- Komatsu components throughout the machine assure years of reliability and high-performance service.
- Adjustment-free wet disc brakes for steady braking and extended service life.
- Electronic Display and Monitoring System for minimized maintenance.
- A large drawbar horsepower with fuel-efficient, powerful Komatsu diesel engine for high productivity and maneuverability.
- Fingertip control with Electrically Controlled Transmission.
- A tiltable steering wheel and fully adjustable suspension seat.

Specifications

WHEEL DOZERS

Item		Model	WD420-3	WD500-3	WD600-6	WD600-3
OPERATING WEIGHT		kg (lb)	20000 (44,100)	26900 (59,300)	48100 (106,040)	42900 (94,577)
HORSEPOWER		kW (HP)/rpm	167 (224)/2200	235 (315)/2100	393 (527)/1800	362 (485)/2000
BLADE CAPACITY		m ³ (cu.yd)	3.1 (4.1)	5.1 (6.7)	8.0 (10.5)	8.0 (10.5)
PERFORMANCE:						
Travel speed		km/h (MPH)				
Forward	1st		6.3 (3.9)	7.1 (4.4)	6.7 (4.2)	6.5 (4.0)
	2nd		11.7 (7.3)	12.6 (7.8)	11.7 (7.3)	11.8 (7.3)
	3rd		20.5 (12.7)	21.2 (13.2)	20.3 (12.6)	20.8 (12.9)
	4th		32.8 (20.4)	34.8 (21.6)	33.0 (20.5)	36.2 (22.5)
Reverse	1st		6.6 (4.1)	7.9 (4.9)	7.3 (4.5)	7.2 (4.5)
	2nd		12.2 (7.6)	14.1 (8.8)	12.8 (8.0)	13.0 (8.1)
	3rd		21.2 (13.2)	23.5 (14.6)	22.0 (13.7)	23.0 (14.3)
	4th		33.9 (21.1)	38.1 (23.7)	36.0 (22.4)	40.0 (24.9)
Turning radius (Outside corner of blade)		mm (ft.in)	6670 (21'11")	7485 (24'7")	8610 (28'3")	8500 (27'11")
Max. rim pull		kg (lb)	18100 (39,900)	26500 (58,420)	43800 (96,580)	42800 (94,360)
DIMENSIONS:						
Overall length		mm (ft.in)	7160 (23'6")	7930 (26")	9930 (32'7")	9285 (30'6")
Overall width (without blade)		mm (ft.in)	2820 (9'3")	3190 (10'6")	3570 (11'9")	3570 (11'9")
Overall height		mm (ft.in)	3370 (11'1")	3860 (12'8")	4460 (14'8")	4245 (13'11")
Wheelbase		mm (ft.in)	3300 (10'11")	3600 (11'10")	4500 (14'9")	4100 (13'5")
Treads (front and rear)		mm (ft.in)	2200 (7'3")	2400 (7'10")	2650 (11'9")	2650 (8'8")
Articulation angle		degree	40	40	43	40
ENGINE:						
Model			KOMATSU SA6D108	KOMATSU S6D140E	KOMATSU SAA6D170E-5	KOMATSU SAA6D170E-3
No. of cylinders- bore × stroke		mm (in)	6-108 × 130 (4.3 × 5.1)	6-140 × 165 (5.5 × 6.5)	6-170 × 170 (6.69 × 6.69)	6-170 × 170 (6.69 × 6.69)
Piston displacement		ltr. (cu.in)	7.15 (436)	15.24 (930)	23.15 (1413)	23.15 (1413)
CAPACITY:						
Fuel tank		ltr. (U.S. Gal)	340 (90)	465 (123)	718 (190)	670 (177)
TIRE:						
(front)			23.5-25-12PR	29.5-25-22PR	35/65-33-24PR	35/65-33-24PR
(rear)			23.5-25-12PR	29.5-25-22PR	35/65-33-24PR	35/65-33-24PR

Item		Model	WD900-3		
OPERATING WEIGHT		kg (lb)	100000 (220,460)		
HORSEPOWER		kW (HP)/rpm	637 (853)/2000		
BLADE CAPACITY		m ³ (cu.yd)	26.0 (34.0)		
PERFORMANCE:					
Travel speed		km/h (MPH)			
Forward	1st		7.0 (4.3)		
	2nd		12.3 (7.6)		
	3rd		28.0 (17.4)		
	4th		—		
Reverse	1st		7.1 (4.4)		
	2nd		12.4 (7.7)		
	3rd		28.3 (17.6)		
	4th		—		
Turning radius (Outside corner of blade)		mm (ft.in)	9200 (30'2")		
Max. rim pull		kg (lb)	100000 (220,460)		
DIMENSIONS:					
Overall length		mm (ft.in)	12035 (39'6")		
Overall width (without blade)		mm (ft.in)	4460 (14'8")		
Overall height		mm (ft.in)	5215 (17'1")		
Wheelbase		mm (ft.in)	5450 (31')		
Treads (front and rear)		mm (ft.in)	3350 (11')		
Articulation angle		degree	40		
ENGINE:					
Model			KOMATSU SA12V140		
No. of cylinders- bore × stroke		mm (in)	12-140 × 165 (5.5 × 6.5)		
Piston displacement		ltr. (cu.in)	30.5 (1861)		
CAPACITY:					
Fuel tank		ltr. (U.S. Gal)	1430 (378)		
TIRE:					
(front)			45/65-R45XLDD (L4)		
(rear)			45/65-R45XLDD (L4)		



	Model	WD420-3	WD500-3	WD600-6
Blade type	—	Straight Blade	Straight Blade	Straight Blade
Blade capacity (SAE Rated)	m ³ (cu.yd)	3.1 (4.1)	5.1 (6.7)	8.0 (10.5)
A Blade width	mm (ft.in)	3745 (12'3")	4550 (14'11")	5100 (16'9")
B Max. lift above ground	mm (ft.in)	1190 (3'11")	1255 (4'1")	1500 (4'11")
C Max. drop below ground	mm (ft.in)	510 (1'8")	440 (1'5")	450 (1'7.7")
D Max. tilt adjustment	mm (ft.in)	950 (3'1")	1260 (4'2")	1430 (4'8")
Max. pitch angle adjustment	degree	21°	9°	23°
E Overall length	mm (ft.in)	7160 (23'6")	7930 (26)	9930 (32'7")
F Front overhang	mm (ft.in)	1760 (5'9")	1860 (6'1")	2220 (7'3")
Turning radius	mm (ft.in)	6670 (21'11")	7485 (24'7")	8610 (28'3")
Operating weight (include ROPS)	kg (lb)	20000 (44100)	26900 (59300)	48100 (106,040)

	Model	WD600-6	WD600-3	
Blade type	—	U-blade	Straight Blade	
Blade capacity (SAE Rated)	m ³ (cu.yd)	10.6 (13.8)	8.0 (10.5)	
A Blade width	mm (ft.in)	4870 (16'0")	5100 (16'9")	
B Max. lift above ground	mm (ft.in)	1485 (4'10")	1500 (4'11")	
C Max. drop below ground	mm (ft.in)	490 (1'7")	450 (1'7.7")	
D Max. tilt adjustment	mm (ft.in)	1340 (4'5")	1430 (4'8")	
Max. pitch angle adjustment	degree		23°	
E Overall length	mm (ft.in)		9285 (30'6")	
F Front overhang	mm (ft.in)		2205 (7'3")	
Turning radius	mm (ft.in)			
Operating weight (include ROPS)	kg (lb)	49115 (108,280)	42900 (94,360)	

	Model	WD900-3	
Blade type	—	Semi-U blade	Coal blade
Blade capacity (SAE Rated)	m ³ (cu.yd)	26.0 (34.0)	45.0 (58.9)
A Blade width	mm (ft.in)	6470 (21'3")	7400 (24'3")
B Max. lift above ground	mm (ft.in)	1580 (5'2")	1560 (5'1")
C Max. drop below ground	mm (ft.in)	680 (2'3")	680 (3'3")
D Max. tilt adjustment	mm (ft.in)	1330 (4'4")	1710 (5'7")
Max. pitch angle adjustment	degree	8°	8°
E Overall length	mm (ft.in)	12035 (39'6")	
F Front overhang	mm (ft.in)	3385 (11'1")	
Turning radius	mm (ft.in)	11285 (37')	
Operating weight (include ROPS)	kg (lb)	100000 (220460)	

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SECTION **4A**

**RIGID
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Ecology Features

ecot3 (EPA Tier 3, EU Stage 3A certified engine)

Komatsu develops and produces all major components, such as engines, electronics and hydraulic components in house.

With this “Komatsu Technology”, and adding customer feedback, Komatsu is achieving great advancements in technology.

To achieve high levels of productivity and ecology, Komatsu developed the main components with an advanced control system.

The result is a new generation of high performance and environment friendly machines.

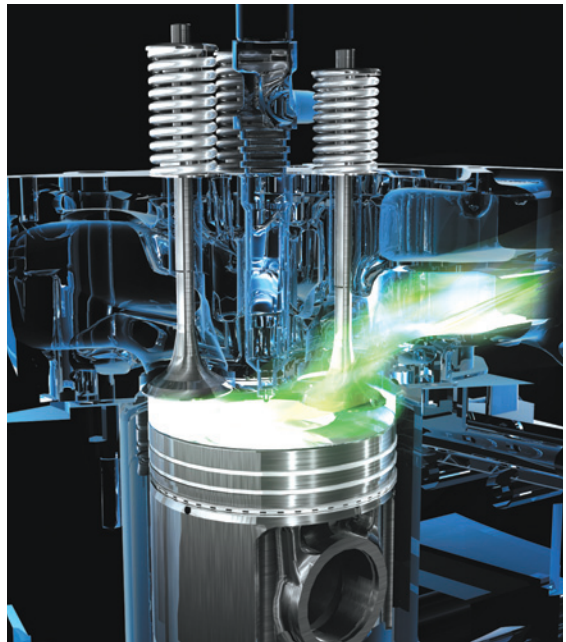


Fuel efficient electronic controlled engine

The engine is EPA Tier 3 and EU Stage 3A emission regulation certified. The engine is turbocharged and features Common Rail Injection System (CRI) and air-to-air aftercooling to maximize power, fuel efficiency and emission compliance.

To minimize noise and vibration, the engine is mounted to the main frame with rubber cushions.

(HD325/405-7, HD465/605-7E0)



■ High productivity

The result of total performance: High performance, minimum downtime, and easy operation

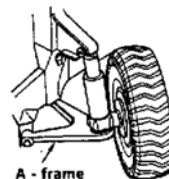
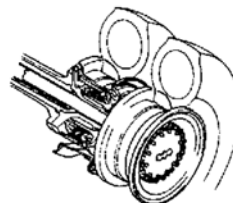
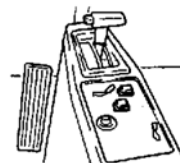
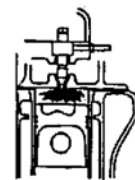
■ Dependable and high-performance components

- Komatsu diesel engine delivers high-output and direct injection system provides high fuel efficiency
- Full-automatic TORQFLOW transmission: A microcomputer built into the shift controller automatically selects the optimum gear position according to travel speed, load and road conditions assuring effort-free operation.
- High-performance, durable brakes: Sealed, oil-cooled, multiple-disc brakes on rear wheels are designed for extended operation. The large-capacity rear wheel brakes also act as retarders as a precaution against engine overrunning when descending steep inclines.
- High maneuverability: The MacPherson strut type front suspension system has a special A-frame between each wheel and the main frame. The wider space created between the front wheels and the main frame increases the turning angle of the wheels. The larger this turning angle, the smaller the turning radius of the truck.
- Extra sturdiness: Box-section, ladder type frame construction of high-tensile-strength steel plate and cast steel offer unfaltering durability for long service.
- Rigorous dump body design : The dump body is made of high-tensile-strength steel for excellent rigidity and reduced maintenance costs. The V-shape design also increases structural strength. The side and bottom plates of the dump section are reinforced with ribs for added strength.
- Instrument panel monitor: The functions of "User code display" to show machine troubles and remedy for them and "Service code display" to show the self-diagnosis result are added to the electronic display panel for easier control and higher availability of the machine.
- Maintenance monitor : The maintenance control function automatically checks key components before the truck is started. For even simpler and foolproof maintenance, filter and oil replacement times are suggested. Thus, failures are detected before they become critical.
[Except HD255]

■ Easy maintenance

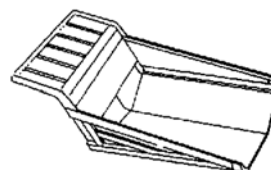
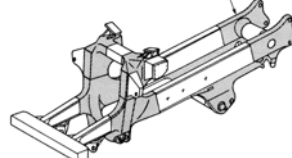
Greasing points have been centralized.

Fuel and engine oil filters are also located together on the right-hand remote mount for easy, remote inspection from the ground.



A - frame

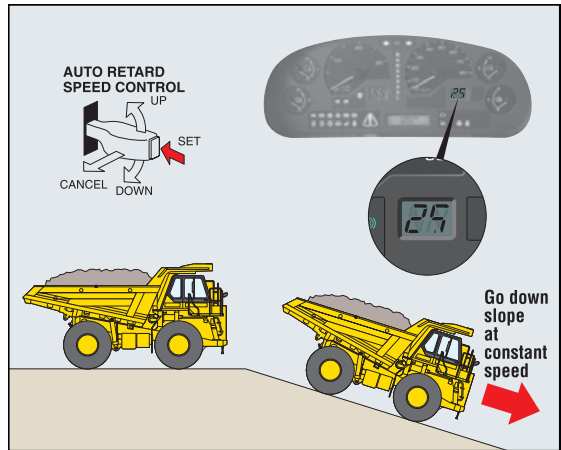
Painted part casting steel



Automatic Retard Speed Control (ARSC)

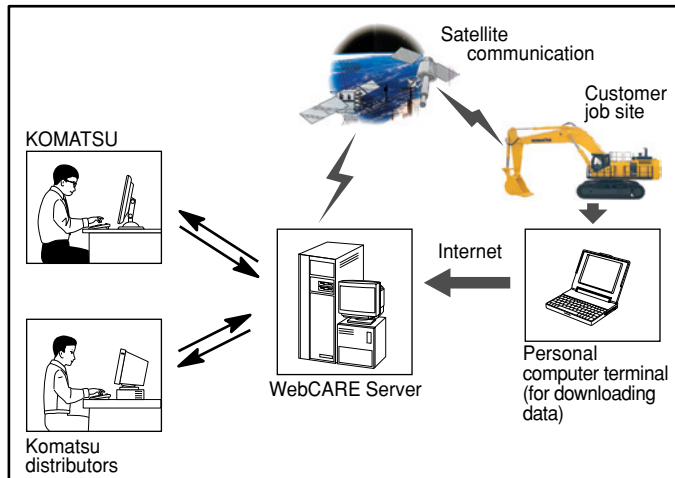
ARSC allows the operator to simply set the downhill travel speed and go down slopes at a constant speed. As a result, the operator can concentrate on steering. The speed can be set at increments of 1 km/h 0.6 MPH per click (±5 km/h 3.1 MPH of maximum speed adjustment) to match the optimum speed for the slope. Also, since the retarder cooling oil temperature is always monitored, the speed is automatically lowered.

(STD for HD465/605-7, 7E0, 7R, HD785-7)
(Option for HD325/405-7, 7R)



VHMS (Vehicle Health Monitoring System) (Option for HD465/605-7, 7E0, 7R, HD785-5, HD785-7)

VHMS controller monitors the health conditions of major components, enables remote analysis of the machine and its operation. This process is supported by the Komatsu distributors, factory and design team. This contributes to reduced repair costs and to maintaining maximum availability.



Merits of Using VHMS

Diagnosis

- Machine health information that used to take approximately 1 hour to be measured can now be downloaded by personal computer in approximately 10 minutes, shortening the vehicle's down time.
- Furthermore, if the satellite communications function is equipped, the machine information can be gathered without stopping the vehicle at all. (Not available in some regions.)

Recommendation

- An appropriate recommendation can be made by viewing these data over the Internet.
 - Proper driving methods
 - Formulation of maintenance plans in advance that suit the customer's production schedule.

Customer's Benefit

- Sudden break down can be prevented through utilization of data trend (change over time).
- Ascertaining the facts and searching for the cause of the breakdown are simplified, thus enabling problems to be resolved quickly.
- Down time can be shortened by the systematic use of Reman components.
- Machine life can be extended significantly by proper operation and proper maintenance.

Specifications

RIGID DUMP TRUCKS

1. Japan source

Item	Model	HD255-5	•HD325-7	HD325-7R
WEIGHT:	kg (lb)			
Empty vehicle weight*		22450 (49,490)	31600 (69,700)	31600 (69,700)
Distribution (front)		10775 (23,750)	16337 (36,020)	16337 (36,020)
(rear)		11675 (25,740)	15263 (33,650)	15263 (33,650)
Gross vehicle weight		47525 (104,770)	63680 (140,390)	63680 (140,390)
Distribution (front)		15210 (33,530)	21014 (46,330)	21014 (46,330)
(rear)		32315 (71,240)	42666 (94,060)	42666 (94,060)
Max. gross vehicle weight**		—	69280 (152,740)	69280 (152,740)
Gross horsepower	kW (HP)/RPM	241 (323)/2100	386 (518)/2000	386 (518)/2000
Net horsepower	kW (HP)/RPM	235 (316)/2100	371 (498)/2000	371 (498)/2000
HAULING CAPACITY:				
Maximum payload	m. ton (U.S. ton)	25 (27.6)	36.5 (40)	36.5 (40)
Heaped capacity (2:1)	m ³ (yd ³)	17.7 (23.2)	24.0 (31.4)	24.0 (31.4)
PERFORMANCE:				
Maximum speed	km/h (MPH)	47.0 (29.2)	70 (43.5)	70 (43.5)
Turning radius	m (ft.in)	7.0 (23')	7.2 (23'7")	7.2 (23'7")
ENGINE:				
Model		KOMATSU SAA6D125E-3	KOMATSU SAA6D140E-5	KOMATSU SAA6D140E-5
No. of cylinders-		6	6	6
bore × stroke	mm (in)	125 × 150 (4.92 × 5.91)	140 × 165 (5.51 × 6.50)	140 × 165 (5.51 × 6.50)
Displacement	ltr. (in ³)	11.04 (674)	15.24 (930)	15.24 (930)
DIMENSION:		See DIMENSIONS		
TIRES:				
Front tire		16.00-25-28PR × 2	18.00-33-32PR × 2	18.00-33-32PR × 2
Rear tire		16.00-25-28PR × 4	18.00-33-32PR × 4	18.00-33-32PR × 4
CAPACITY: Fuel tank	ltr. (U.S. Gal)	374 (98.8)	484 (127.9)	484 (127.9)

Item	Model	HD325-6	•HD405-7	HD405-7R
WEIGHT:	kg (lb)			
Empty vehicle weight*		28700 (63,270)	34400 (75,840)	34400 (75,840)
Distribution (front)		13780 (30,380)	17440 (38,450)	17440 (38,450)
(rear)		14920 (32,890)	16960 (37,390)	16960 (37,390)
Gross vehicle weight		60780 (134,000)	74480 (164,200)	74480 (164,200)
Distribution (front)		19450 (42,880)	24430 (53,860)	24430 (53,860)
(rear)		41330 (92,120)	50050 (110,340)	50050 (110,340)
Max. gross vehicle weight**		65200 (143,740)	75080 (165,520)	75080 (165,520)
Gross horsepower	kW (HP)/RPM	379 (508)/2000	386 (518)/2000	386 (518)/2000
Net horsepower	HP	364 (488)/2000	371 (498)/2000	371 (498)/2000
HAULING CAPACITY:				
Maximum payload	m. ton (U.S. ton)	36.5 (40)	41 (45.2)	41 (45.2)
Heaped capacity (2:1)	m ³ (yd ³)	24.0 (31.4)	27.3 (35.7)	27.3 (35.7)
PERFORMANCE:				
Maximum speed	km/h (MPH)	70 (43.5)	70 (43.5)	70 (43.5)
Turning radius	m (ft.in)	7.2 (23'7")	7.2 (23'7")	7.2 (23'7")
ENGINE:				
Model		KOMATSU SAA6D140E-3	KOMATSU SAA6D140E-5	KOMATSU SAA6D140E-5
No. of cylinders-		6	6	6
bore × stroke	mm (in)	140 × 165 (5.51 × 6.50)	140 × 165 (5.51 × 6.50)	140 × 165 (5.51 × 6.50)
Displacement	ltr. (in ³)	15.23 (930)	15.24 (930)	15.24 (930)
DIMENSION:		See DIMENSIONS		
TIRES:				
Front tire		18.00-33-28PR × 2	18.00 R33 × 2	18.00 R33 × 2
Rear tire		18.00-33-28PR × 4	18.00 R33 × 4	18.00 R33 × 4
CAPACITY: Fuel tank	ltr. (U.S. Gal)	500 (132.0)	484 (127.9)	484 (127.9)

* Weight includes lubricants, coolant, full fuel tank and standard body.

** Max. gross vehicle weight, including optional equipment, lubricants, coolant, full fuel tank and payload, with large tires installed, shall not be exceeded .

- Tier 3 and Stage 3A model

Specifications

RIGID DUMP TRUCKS

Model		HD405-6	•HD465-7E0	HD465-7R
Item				
WEIGHT:	kg (lb)			
Empty vehicle weight*		32050 (70,660)	43100 (95,020)	43100 (95,020)
Distribution (front)		14420 (31,790)	20257 (44,660)	20257 (44,660)
(rear)		17630 (38,870)	22843 (50,360)	22843 (50,360)
Gross vehicle weight		72125 (159,010)	99680 (219,760)	99680 (219,760)
Distribution (front)		22850 (50,380)	31898 (70,320)	31898 (70,320)
(rear)		49275 (108,630)	67782 (149,430)	67782 (149,430)
Max. gross vehicle weight**		73175 (161,320)	—	—
Gross horsepower	kW (HP)/RPM	379 (508)/2000	551 (739)/2000	551 (739)/2000
Net horsepower	kW (HP)/RPM	364 (488)/2000	533 (715)/2000	533 (715)/2000
HAULING CAPACITY:				
Maximum payload	m. ton (U.S. ton)	41 (45)	55 (60.6)	55 (60.6)
Heaped capacity (2:1)	m ³ (yd ³)	27.3 (35.7)	34.2 (44.7)	34.2 (44.7)
PERFORMANCE:				
Maximum speed	km/h (MPH)	70 (43.5)	70 (43.5)	70 (43.5)
Turning radius	m (ft.in)	7.2 (23'7")	8.5 (27'11")	8.5 (27'11")
ENGINE:		KOMATSU	KOMATSU	KOMATSU
Model		SAA6D140E-3	SAA6D170E-5	SAA6D170E-5
No. of cylinders-		6	6	6
bore × stroke	mm (in)	140 × 165 (5.91 × 6.50)	170 × 170 (6.69 × 6.69)	170 × 170 (6.69 × 6.69)
Displacement	ltr. (in ³)	15.23 (930)	23.15 (1413)	23.15 (1413)
DIMENSION:		See DIMENSIONS		
TIRES:				
Front tire		18.00 R33 × 2	24.00-35-36PR × 2	24.00-35-36PR × 2
Rear tire		18.00 R33 × 4	24.00-35-36PR × 4	24.00-35-36PR × 4
CAPACITY: Fuel tank	ltr. (U.S. Gal)	500 (132.0)	780 (206.1)	780 (206.1)

Model		HD465-7	•HD605-7E0	HD605-7R
Item				
WEIGHT:	kg (lb)			
Empty vehicle weight*		42800 (94,360)	46200 (101,850)	46200 (101,850)
Distribution (front)		20120 (44,360)	21714 (47,870)	21714 (47,870)
(rear)		22680 (50,000)	24486 (53,980)	24486 (53,980)
Gross vehicle weight		97875 (215,780)	110180 (242,900)	110180 (242,900)
Distribution (front)		31320 (69,050)	35258 (77,730)	35258 (77,730)
(rear)		66555 (146,730)	74922 (165,170)	74922 (165,170)
Max. gross vehicle weight**		98800 (217,810)	—	—
Gross horsepower	kW (HP)/RPM	551 (739)/2000	551 (739)/2000	551 (739)/2000
Net horsepower	HP	533 (715)/2000	533 (715)/2000	533 (715)/2000
HAULING CAPACITY:				
Maximum payload	m. ton (U.S. ton)	55 (61)	63 (69.4)	63 (69.4)
Heaped capacity (2:1)	m ³ (yd ³)	34.2 (44.7)	40.0 (52.3)	40.0 (52.3)
PERFORMANCE:				
Maximum speed	km/h (MPH)	70 (43.5)	70 (43.5)	70 (43.5)
Turning radius	m (ft.in)	8.5 (27'11")	8.5 (27'11")	8.5 (27'11")
ENGINE:		KOMATSU	KOMATSU	KOMATSU
Model		SAA6D170E-3	SAA6D170E-5	SAA6D170E-5
No. of cylinders-		6	6	6
bore × stroke	mm (in)	170 × 170 (6.69 × 6.69)	170 × 170 (6.69 × 6.69)	170 × 170 (6.69 × 6.69)
Displacement	ltr. (in ³)	23.15 (1,413)	23.15 (1413)	23.15 (1413)
DIMENSION:		See DIMENSIONS		
TIRES:				
Front tire		24.00-35-36PR × 2	24.00 R35 × 2	24.00 R35 × 2
Rear tire		24.00-35-36PR × 4	24.00 R35 × 4	24.00 R35 × 4
CAPACITY: Fuel tank	ltr. (U.S. Gal)	780 (206.1)	780 (206.1)	780 (206.1)

* Weight includes lubricants, coolant, full fuel tank and standard body.

** Max. gross vehicle weight, including optional equipment, lubricants, coolant, full fuel tank and payload, with large tires installed, shall not be exceeded.

- Tier 3 and Stage 3A model

Specifications

RIGID DUMP TRUCKS

Model		HD605-7	HD785-7	HD785-5
Item				
WEIGHT:	kg (lb)			
Empty vehicle weight*		45900 (101,190)	72000 (158,730)	66930 (147,550)
Distribution (front)		21575 (47,560)	33840 (74,600)	31460 (69,360)
(rear)		24325 (53,630)	38160 (84,130)	35470 (78,200)
Gross vehicle weight		108975 (240,250)	163080 (359,530)	158010 (348,350)
Distribution (front)		34870 (76,870)	51370 (113,250)	52140 (114,950)
(rear)		74105 (163,370)	111710 (246,280)	105865 (233,390)
Max. gross vehicle weight**		109900 (242,290)	166000 (366,000)	166000 (366,000)
Gross horsepower	kW (HP)/RPM	551 (739)/2000	895 (1200)/1900	783 (1050)/2000
Net horsepower	kW (HP)/RPM	533 (715)/2000	879 (1178)/1900	753 (1010)/2000
HAULING CAPACITY:				
Maximum payload	m. ton (US ton)	63 (69)	91 (100)	91 (100)
Heaped capacity (2:1)	m ³ (yd ³)	40 (52.3)	60 (78.5)	60 (78.5)
PERFORMANCE:				
Maximum speed	km/h(MPH)	70 (43.5)	65 (40.4)	65 (40.4)
Turning radius	m (ft.in)	8.5 (27'11")	10.1 (33'2")	9.9 (32'6")
ENGINE:		KOMATSU	KOMATSU	KOMATSU
Model		SAA6D170E-3	SAA12V140E-3	SA12V140-1
No. of cylinders-		6	12	12
bore × stroke	mm (in)	170 × 170 (6.69 × 6.69)	140 × 165 (5.51 × 6.50)	140 × 165 (5.51 × 6.50)
Displacement	ltr. (in ³)	23.15 (1413)	30.48 (1860)	30.48 (1860)
DIMENSION:		See DIMENSIONS		
TIRES:				
Front tire		24.00 R35 × 2	27.00 R49 × 2	27.00 R49 × 2
Rear tire		24.00 R35 × 4	27.00 R49 × 4	27.00 R49 × 4
CAPACITY: Fuel tank	ltr.(U.S. Gal)	780 (206.1)	1308 (345.6)	1250 (330.3)

Model		HD1500-7		
Item				
WEIGHT:	kg (lb)			
Empty vehicle weight*		105300 (232,140)		
Distribution (front)		51175 (112,820)		
(rear)		54125 (119,320)		
Gross vehicle weight		249478 (550,000)		
Distribution (front)		81828 (180,400)		
(rear)		167650 (369,600)		
Max. gross vehicle weight**		249478 (550,000)		
Gross horsepower	kW (HP)/RPM	1109 (1487)/1900		
Net horsepower	kW (HP)/RPM	1048 (1406)/1900		
HAULING CAPACITY:				
Nominal payload	m. ton (US ton)	144.1 (158.9)		
Heaped capacity (2:1)	m ³ (yd ³)	78 (102)		
PERFORMANCE:				
Maximum speed	km/h (MPH)	58 (36.0)		
Turning radius	m (ft.in)	12.2 (40')		
ENGINE:		KOMATSU		
Model		SDA12V160		
No. of cylinders-		12		
bore × stroke	mm (in)	159 × 190 (6.26 × 7.48)		
Displacement	ltr. (in ³)	45.0 (2746)		
DIMENSION:		See DIMENSIONS		
TIRES:				
Front tire		33.00 R51 × 2		
Rear tire		33.00 R51 × 4		
CAPACITY: Fuel tank	ltr. (U.S. Gal)	2120 (560)		

* Weight includes lubricants, coolant, full fuel tank and standard body.

** Max. gross vehicle weight, including optional equipment, lubricants, coolant, full fuel tank and payload, with large tires installed, shall not be exceeded .

- Tier 3 and Stage 3A model

Specifications

RIGID DUMP TRUCKS

2. USA source

Item	Model	HD1500-7	730E	830E-AC
WEIGHT:	kg (lb)			
Empty vehicle weight*		105300 (232,140)	140592 (309,950)	164200 (362,000)
Distribution (front)		51175 (112,820)	67484 (148,776)	81279 (179,190)
(rear)		54125 (119,320)	73108 (161,174)	82921 (182,810)
Gross vehicle weight		249478 (550,000)	324319 (715,000)	385848 (850,640)
Distribution (front)		81828 (180,400)	98941 (218,129)	127330 (280,710)
(rear)		167650 (369,600)	225377 (496,871)	258518 (569,930)
Max. gross vehicle weight**		249478 (550,000)	324319 (715,000)	385848 (850,640)
Gross horsepower	kW (HP)/RPM	1109 (1487)/1900	1491 (2000)/1900	1865 (2500)/1900
Net horsepower	kW (HP)/RPM	1048 (1406)/1900	1388 (1860)/1900	1761 (2360)/1900
HAULING CAPACITY:				
Nominal payload	m. ton (US ton)	144.1 (158.9)	183.7 (203)	221.6 (244)
Heaped capacity (2:1)	m ³ (yd ³)	78 (102)	111 (145)	147 (193)
PERFORMANCE:				
Maximum speed	km/h (MPH)	58 (36.0)	55.7 (34.6)	64.0 (40)
Turning radius	m (ft.in)	12.2 (40')	14.0 (46')	14.2 (46'5")
ENGINE:		KOMATSU	KOMATSU	KOMATSU
Model		SDA12V160	SSA16V159	SDA16V160
No. of cylinders-		12	16	16
bore × stroke	mm (in)	159 × 190 (6.26 × 7.48)	159 × 159 (6.26 × 6.26)	159 × 190 (6.26 × 7.48)
Displacement	ltr. (in ³)	45.0 (2746)	50.3 (3069)	60.2 (3673)
DIMENSION:		See DIMENSIONS		
TIRES:				
Front tire		33.00 R51 × 2	37.00 R57 × 2	40.00 R57 × 2
Rear tire		33.00 R51 × 4	37.00 R57 × 4	40.00 R57 × 4
CAPACITY: Fuel tank	ltr. (U.S. Gal)	2120 (560)	3217 (850)	4542 (1200)

Item	Model	860E-1K	930E-4***	930E-4SE***
WEIGHT:	kg (lb)			
Empty vehicle weight*		200351 (441,700)	210187 (463,383)	215307 (474,670)
Distribution (front)		98361 (216,850)	99711 (219,826)	104459 (230,293)
(rear)		101990 (224,850)	110476 (243,557)	110847 (244,377)
Gross vehicle weight		454363 (1,001,700)	501974 (1,106,670)	505755 (1,115,000)
Distribution (front)		152392 (335,871)	165651 (365,201)	165956 (365,871)
(rear)		301971 (665,829)	336323 (741,469)	339649 (748,799)
Max. gross vehicle weight**		454363 (1,001,700)	501974 (1,106,652)	505755 (1,115,000)
Gross horsepower	kW (HP)/RPM	2014 (2700)/1900	2014 (2700)/1900	2611 (3500)/1900
Net horsepower	kW (HP)/RPM	1902 (2550)/1900	1902 (2550)/1900	2558 (3429)/1900
HAULING CAPACITY:				
Nominal payload	m. ton (US ton)	254 (280)	291.8 (320)	290.4 (320)
Heaped capacity (2:1)	m ³ (yd ³)	169 (221)	211 (276)	211 (276)
PERFORMANCE:				
Maximum speed	km/h (MPH)	64.5 (40)	64.5 (40)	64.5 (40.0)
Turning radius	m (ft.in)	15.5 (50'10")	15.2 (48'9")	14.85 (48'9")
ENGINE:		KOMATSU	KOMATSU	KOMATSU
Model		SSDA16V160	SSDA16V160	SSDA18V170
No. of cylinders-		16	16	18
bore × stroke	mm (in)	159 × 190 (6.26 × 7.48)	159 × 190 (6.26 × 7.48)	170 × 190 (6.69 × 7.48)
Displacement	ltr. (in ³)	60.2 (3673)	60.2 (3673)	70.0 (4271)
DIMENSION:		See DIMENSIONS		
TIRES:				
Front tire		50/80 R57 × 2	53/80 R63 × 2	53/80 R63 × 2
Rear tire		50/80 R57 × 4	53/80 R63 × 4	53/80 R63 × 4
CAPACITY: Fuel tank	ltr. (U.S. Gal)	4542 (1200)	4542 (1200)	5300 (1,400)

* Weight includes lubricants, coolant, full fuel tank and standard body.

** Max. gross vehicle weight, including optional equipment, lubricants, coolant, full fuel tank and payload, with large tires installed, shall not be exceeded.

*** Weight includes lubricants, coolant, 50% fuel tank and standard body. Max. gross vehicle weight, including optional equipment, lubricants, coolant, 50% fuel tank and payload, with large tires installed, shall not be exceeded.

Specifications

RIGID DUMP TRUCKS

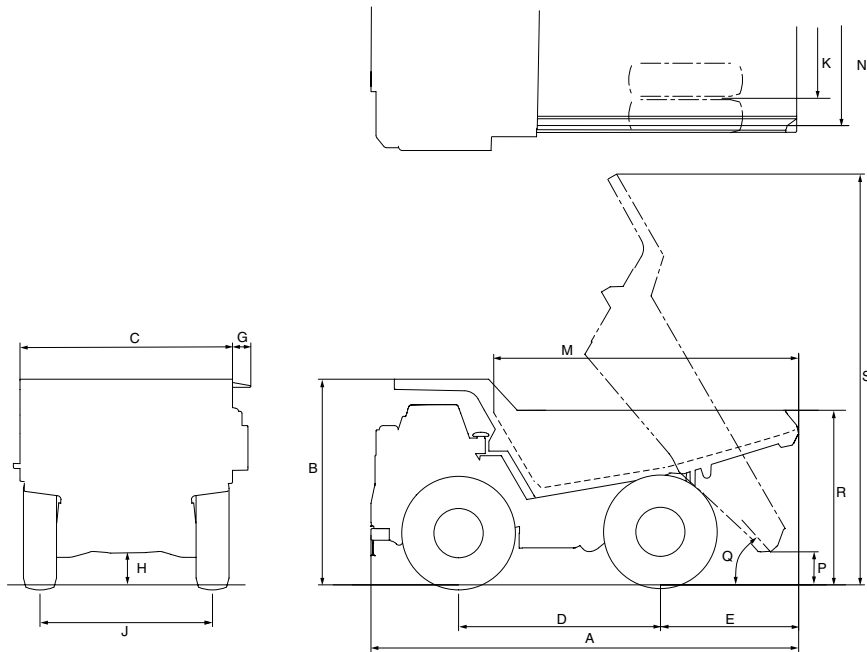
Item	Model	960E-1		
WEIGHT:				
Empty vehicle weight*	kg (lb)	249475 (550,000)		
Distribution (front)		123490 (272,250)		
(rear)		125985 (277,750)		
Gross vehicle weight		576072 (1,270,000)		
Distribution (front)		190104 (419,100)		
(rear)		385968 (850,900)		
Max. gross vehicle weight**		576072 (1,270,000)		
Gross horsepower	kW (HP)/RPM	2610 (3500)/1900		
Net horsepower	kW (HP)/RPM	2495 (3346)/1900		
HAULING CAPACITY:				
Nominal payload	m. ton (US ton)	327 (360)		
Heaped capacity (2:1)	m ³ (yd ³)	214 (280)		
PERFORMANCE:				
Maximum speed	km/h(MPH)	64.5 (40)		
Turning radius	m (ft.in)	16 (52'6")		
ENGINE:				
Model		KOMATSU SSDA18V170		
No. of cylinders-		18		
bore × stroke	mm (in)	170 × 190 (6.69 × 7.48)		
Displacement	ltr. (in ³)	70.0 (4271)		
DIMENSION:		See DIMENSIONS		
TIRES:				
Front tire		56/80 R63 × 2		
Rear tire		56/80 R63 × 4		
CAPACITY: Fuel tank	ltr.(U.S. Gal)	5300 (1400)		

* Weight includes lubricants, coolant, full fuel tank and standard body.

** Max. gross vehicle weight, including optional equipment, lubricants, coolant, full fuel tank and payload, with large tires installed, shall not be exceeded.

Dimensions

RIGID DUMP TRUCKS



Unit: mm (ft.in)

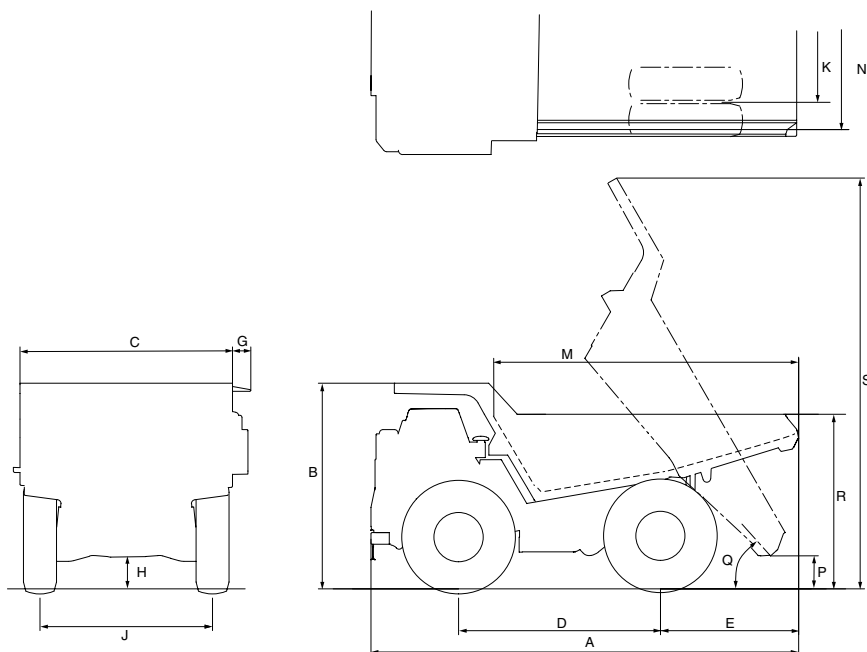
	HD255-5	HD325-7 HD325-7R	H325-6	HD405-7 HD405-7R	HD405-6	HD465-7E0 HD465-7R
Tires	16.00 R25	18.00-33-32PR	18.00-33-28PR	18.00 R33	18.00 R33	24.00-35-36PR
A	7390 (24'3")	8465 (27'9")	8365 (27'5")	8465 (27'9")	8365 (27'5")	9355 (30'8")
B*	3590 (11'9")	4150 (13'7")	4150 (13'7")	4150 (13'7")	4150 (13'7")	4400 (14'5")
C	3200 (10'6")	3660 (12'0")	3660 (12')	3660 (12'0")	3660 (12')	4170 (13'8")
D	3600 (11'10")	3750 (12'4")	3750 (12'4")	3750 (12'4")	3750 (12'4")	4300 (14'1")
E	2140 (7')	2730 (8'11")	2630 (8'8")	2730 (8'11")	2630 (8'8")	3070 (10'1")
G	495 (1'7")	—	480 (1'7")	—	480 (1'7")	—
H	410 (1'4")	500 (1'8")	500 (1'8")	500 (1'8")	500 (1'8")	604 (2'0")
J	2700 (8'10")	3150 (10'4")	3150 (10'4")	3150 (10'4")	3150 (10'4")	3515 (11'6")
K	2225 (7'4")	2550 (8'4")	2550 (8'4")	2550 (8'4")	2550 (8'4")	3080 (10'1")
M	4570 (15')	5500 (18'1")	5500 (18'1")	5590 (18'4")	5590 (18'4")	6450 (21'2")
N	2995 (9'10")	3380 (11'1")	3380 (11'1")	3380 (11'1")	3380 (11'1")	3870 (12'8")
P	560 (1'10")	480 (1'7")	530 (1'9")	480 (1'7")	530 (1'9")	560 (1'6")
Q	49°	48°	48°	48°	48°	48°
R	2975 (9'9")	3220 (10'7")	3200 (10'6")	3450 (11'4")	3430 (11'3")	3600 (11'10")
S	7110 (23'4")	8000 (26'3")	7885 (25'10")	8000 (26'3")	7885 (25'10")	8800 (28'10")

* Includes canopy spill guard.

** USA source

Dimensions

RIGID DUMP TRUCKS



Unit: mm (ft.in)

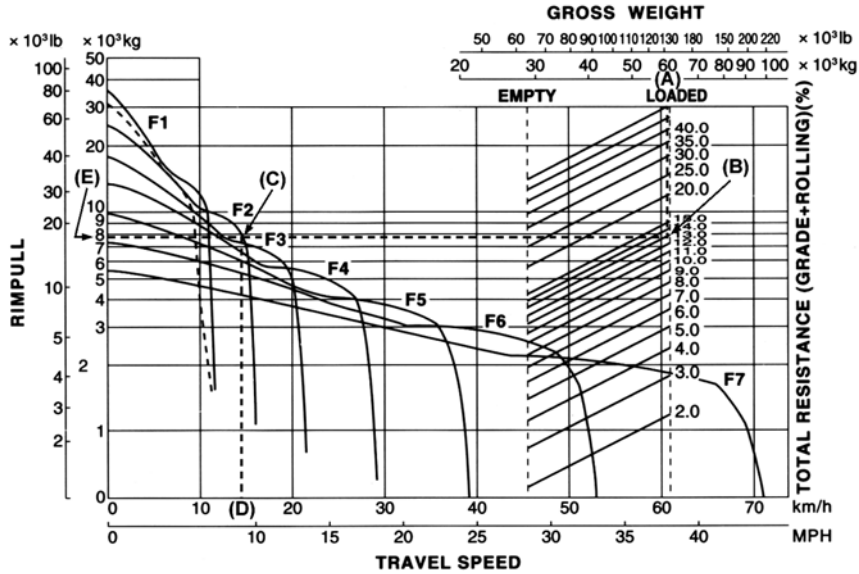
	730E	830E-AC	860E-1K	930E-4	930E-4SE	960E-1
Tires	37.00 R57	40.00 R57	50/80 R57	53/80 R63	53/80 R63	56/80 R63
A	12830 (42'1")	14150 (46'5")	14930 (49'0")	15600 (51'2")	15600 (51'2")	15600 (51'2")
B*	6250 (20'6")	6880 (22'7")	7300 (23'11")	7370 (24'2")	7370 (24'2")	7370 (24'2")
C	7250 (23'9")	7260 (23'10")	8330 (27'4")	8690 (28'6")	8690 (28'6")	9190 (30'2")
D	5890 (19'4")	6350 (20'10")	6300 (20'8")	6350 (20'10")	6350 (20'10")	6650 (21'10")
E	3660 (12'0")	3960 (13'0")	4160 (13'8")	4780 (15'8")	4800 (15'9")	4470 (14'8")
G	290 (1'0")	60 (2.4")	—	—	—	—
H	1140 (3'9")	1280 (4'2")	850 (2'9")	940 (3'1")	940 (3'1")	1020 (3'4")
J	5570 (18'3")	5770 (18'11")	6090 (20'0")	6150 (20'2")	6150 (20'2")	6300 (20'8")
K	4680 (15'4")	4880 (16'0")	5150 (16'11")	5360 (17'7")	5360 (17'7")	5640 (18'6")
M	8430 (27'8")	8870 (29'1")	9210 (30'3")	9450 (31'0")	9380 (30'9")	9500 (31'2")
N	6850 (22'6")	6860 (22'6")	7650 (25'1")	8150 (26'9")	8150 (26'9")	8660 (28'5")
P	1760 (5'9")	1840 (6'0")	1930 (6'4")	1550 (5'1")	1550 (5'1")	1700 (5'7")
Q	45°	45°	45°	45°	45°	45°
R	5610 (18'5")	6710 (22'0")	6390 (20'11")	7060 (23'2")	7060 (23'2")	7140 (23'5")
S	12510 (41'1")	13410 (44'0")	14040 (46'1")	14020 (46'0")	14020 (46'0")	14100 (46'3")

* Includes canopy spill guard.

How to use the travel performance curve

For assessing a vehicle's grade-ability, travel speed, rim pull, etc. First, draw a vertical line according to the vehicle's weight (A) and mark the point (B) corresponding to total resistance (the sum of rolling resistance and grade resistance). Next, draw a horizontal line from (B), then mark (C) where the line intersects the rim pull curve and read (E) for the rim pull. For travel speed (D), draw a vertical line downward from (C).

For instance, when traveling an 8% gradient and encountering a 5% rolling resistance, a vehicle with a 32 ton (35-U.S. ton) payload should have a rim pull of 8 tons (17,640 lb) and travel at a speed of 15 km/h (9.3 MPH) in forward 2nd gear.



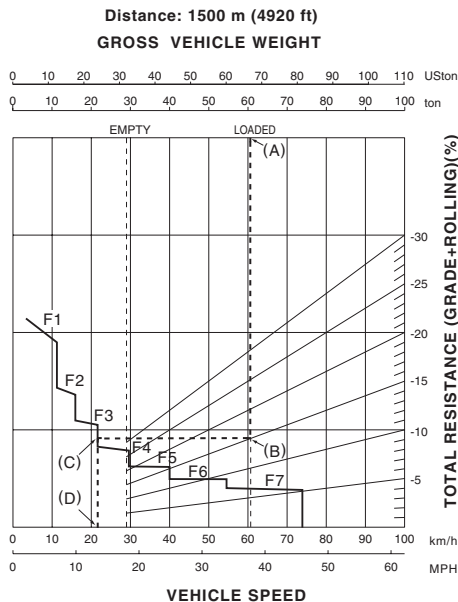
How to use the brake performance curve

These curves are provided for establishing the maximum speed and gearshift position for safe descent of a road with a given gradient at a given distance.

For example, let us assume the total resistance is -15% (gradient resistance -16% plus rolling resistance +1%) on the 1500m (4,920 ft) graph.

First, draw a vertical line from the total vehicle weight (A) so that it crosses the slanted line of -15% total resistance (B). From (B), draw a horizontal line to the left and it will cross the stair curve at (C). Finally, draw a vertical line from (C) and read (D) the maximum speed for driving safely down the slope.

In this case, a vehicle with a 32-ton payload should travel at approximately 22km/h (13.7MPH) with the F3 gear.

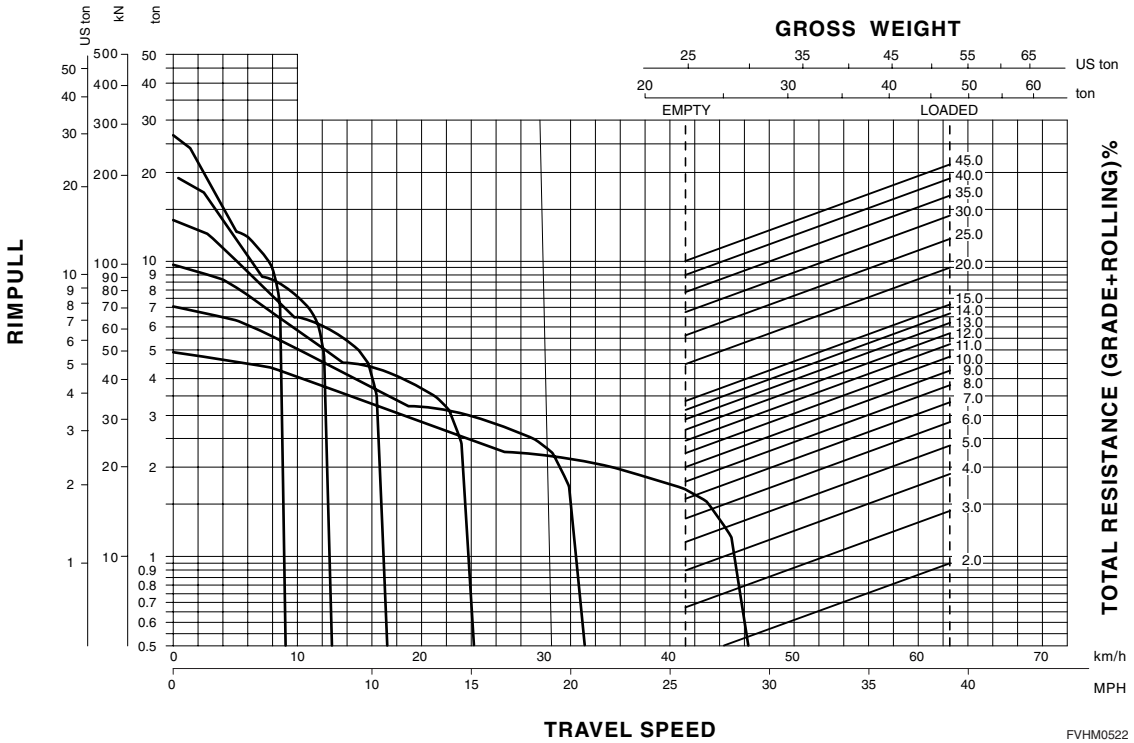


FVBH0068A

HD255-5 Performance Curves

**RIGID
DUMP TRUCKS**

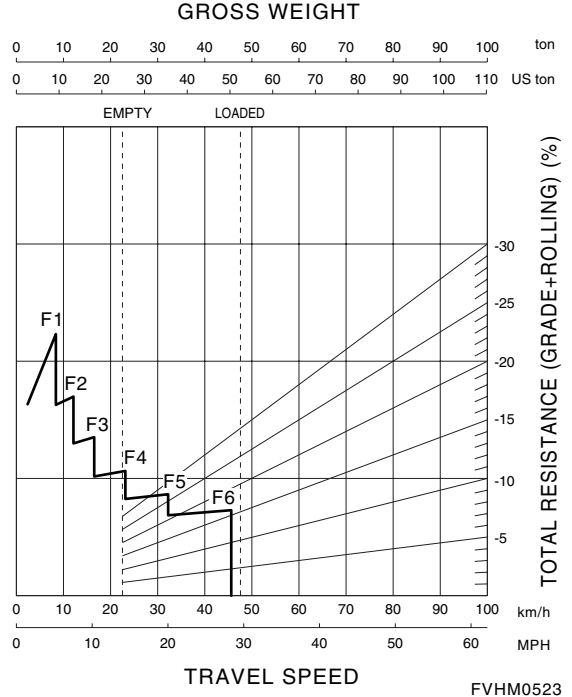
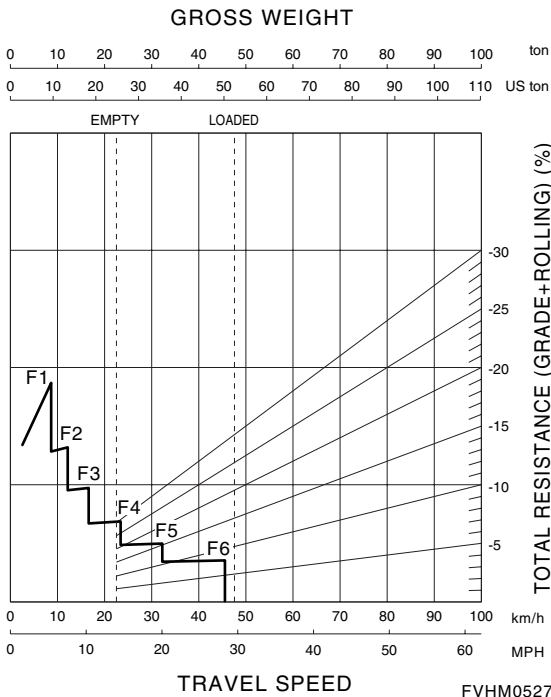
Travel Performance Curve



Brake performance

GRADE DISTANCE: Continuous

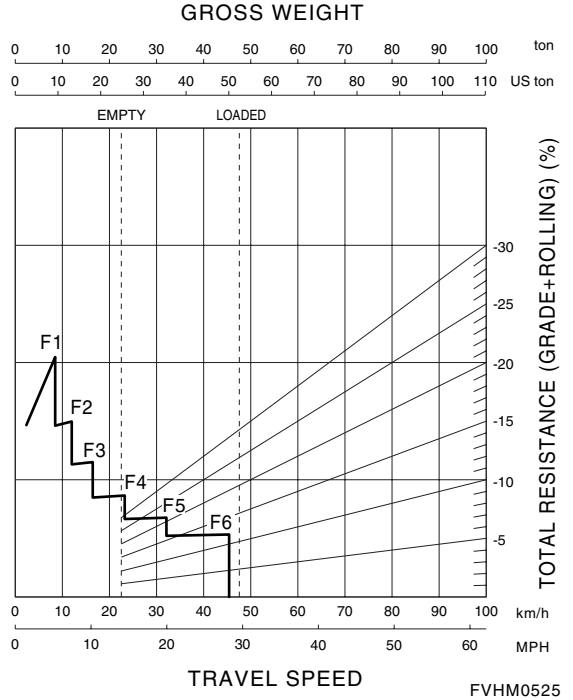
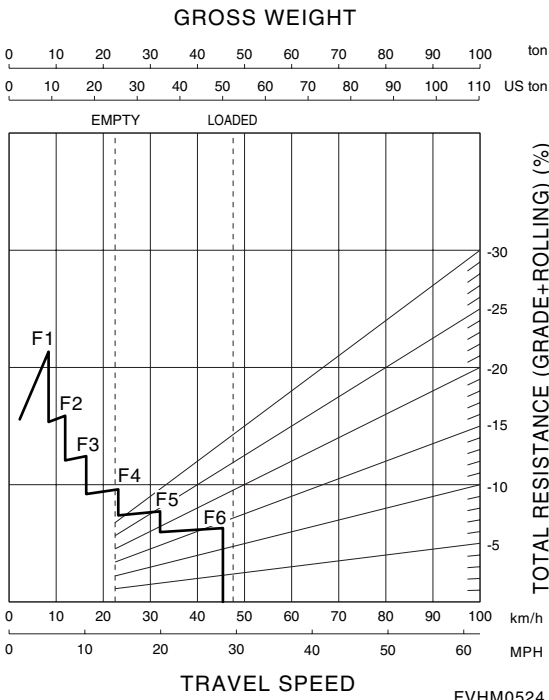
GRADE DISTANCE: 450 m (1,500 ft)



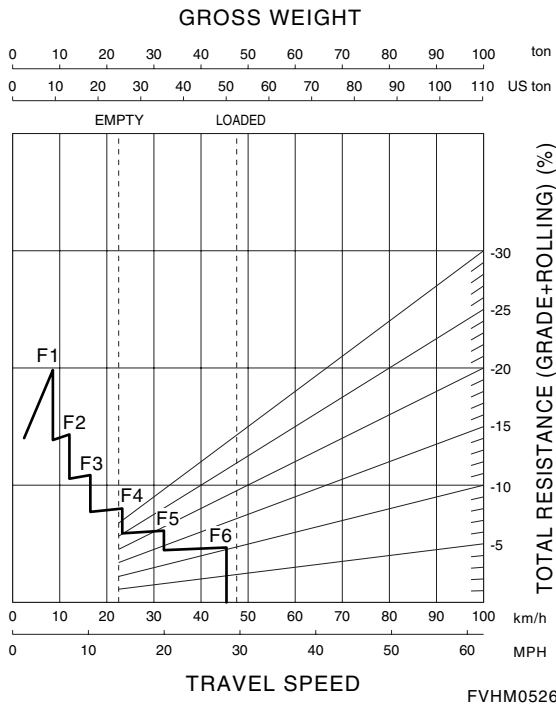
Brake performance

GRADE DISTANCE: 600 m (2,000 ft)

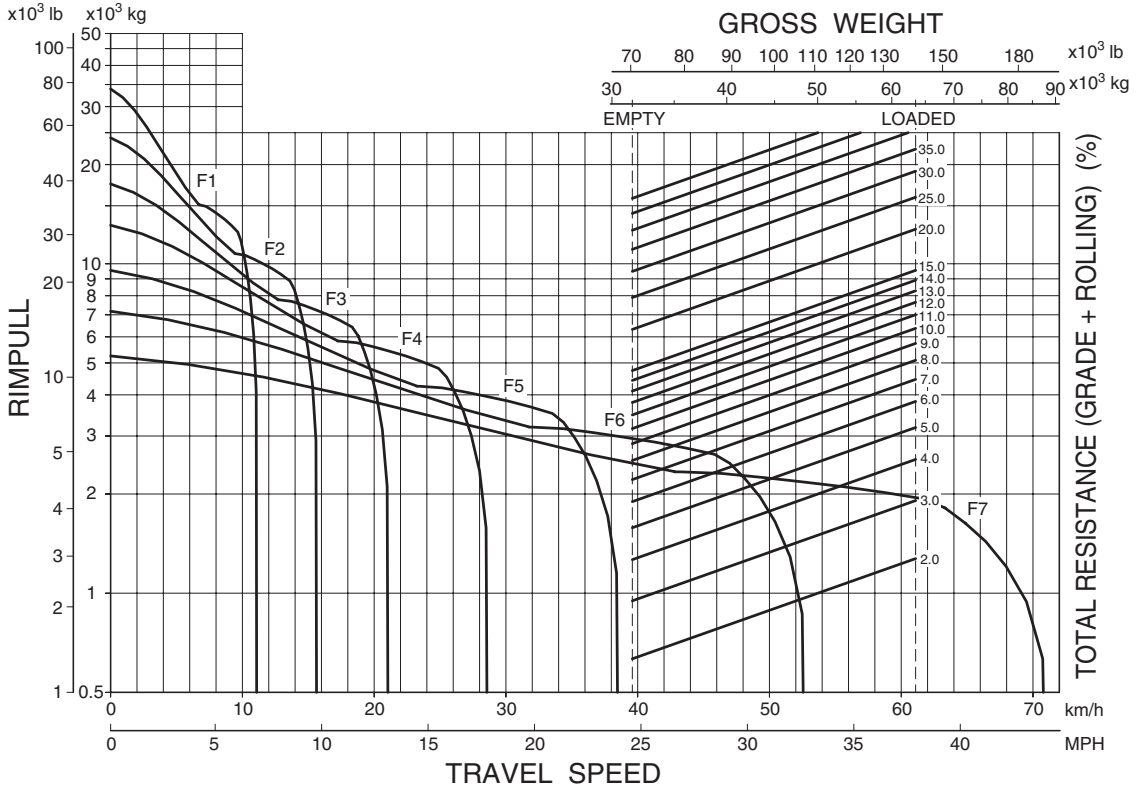
GRADE DISTANCE: 900 m (3,000 ft)



GRADE DISTANCE: 1500 m (5,000 ft)



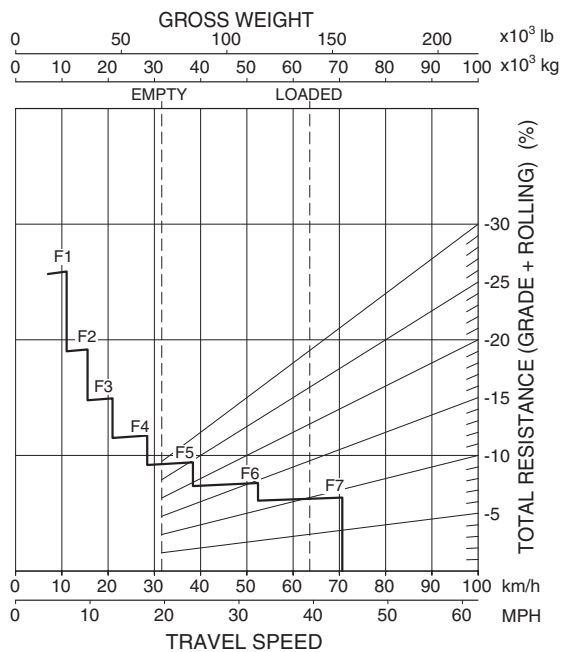
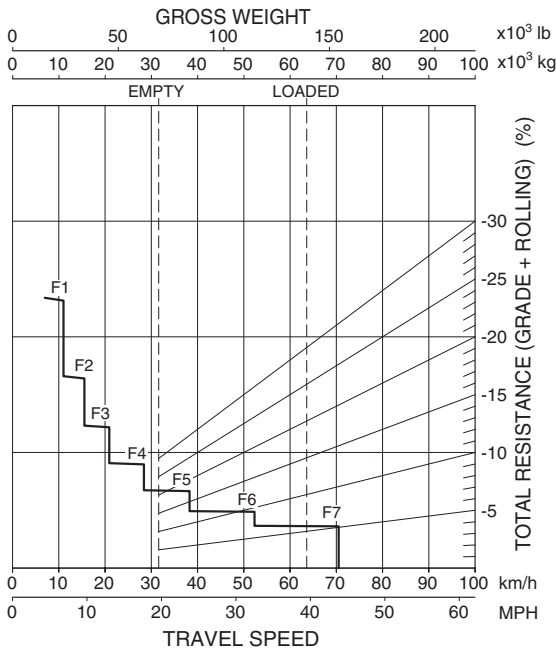
Travel Performance Curve



Brake performance

GRADE DISTANCE : CONTINUOUS DESCENT

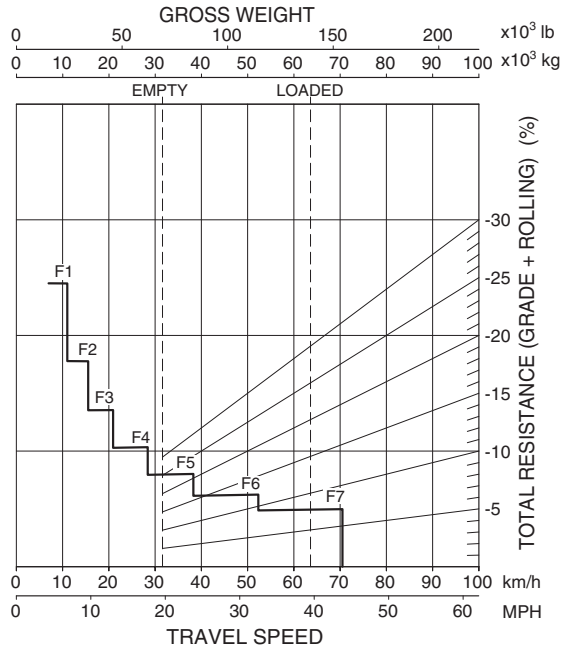
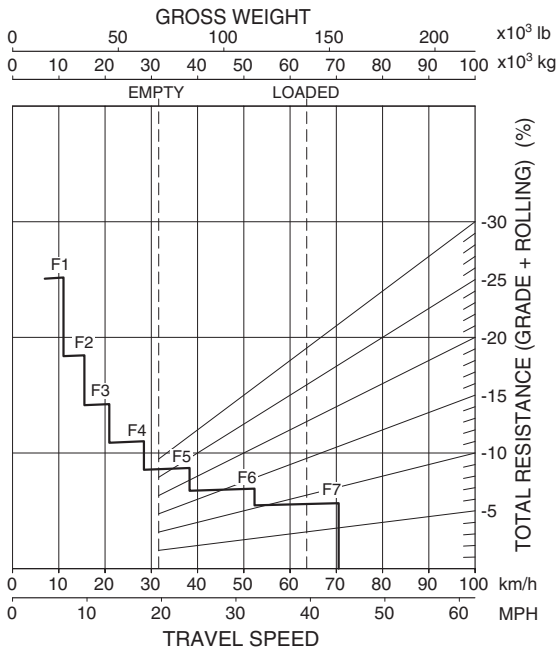
GRADE DISTANCE : 450 m (1,500 ft)



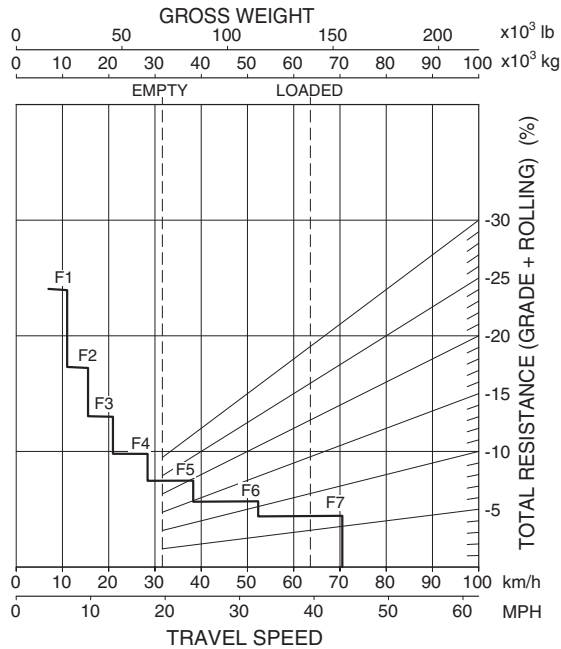
Brake performance

GRADE DISTANCE : 600 m (2,000 ft)

GRADE DISTANCE : 900 m (3,000 ft)



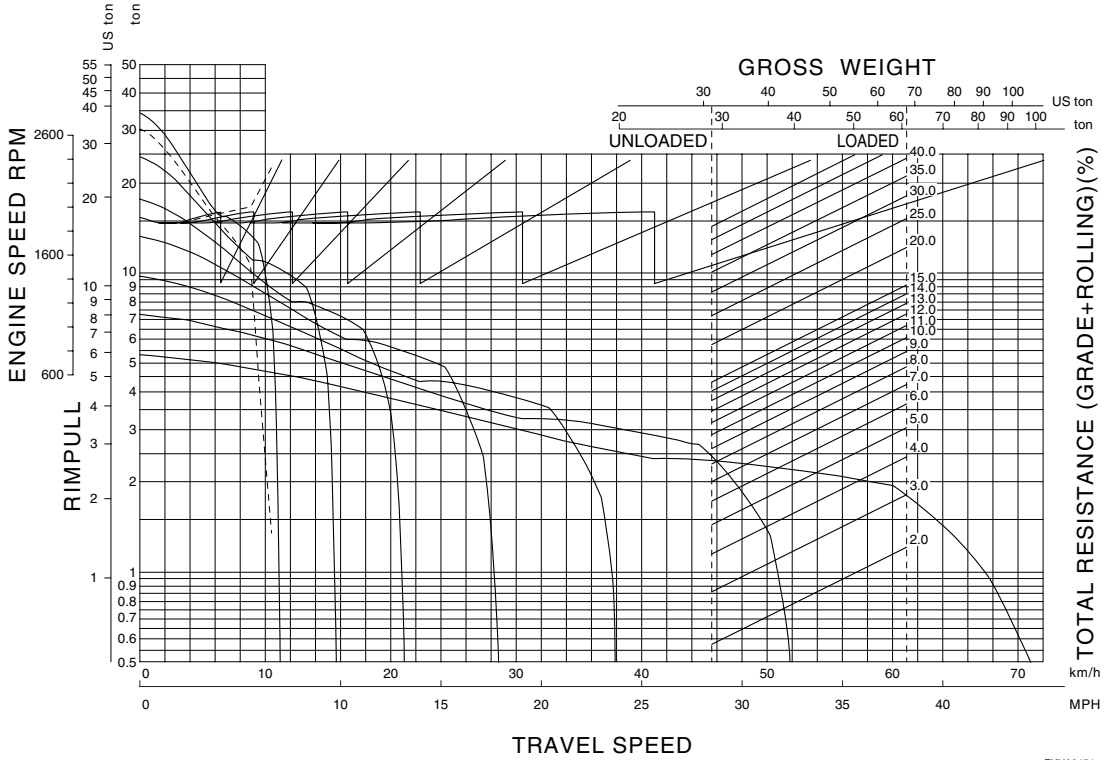
GRADE DISTANCE : 1500 m (5,000 ft)



HD325-6 Performance Curves

**RIGID
DUMP TRUCKS**

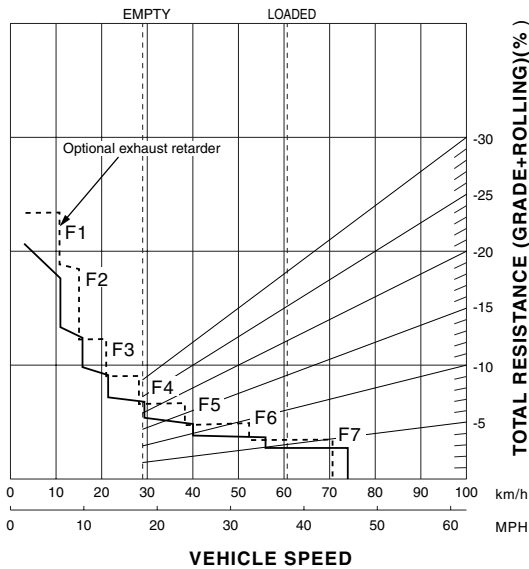
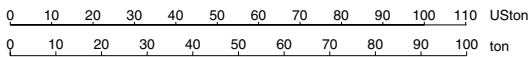
Travel Performance Curve



FKH00151

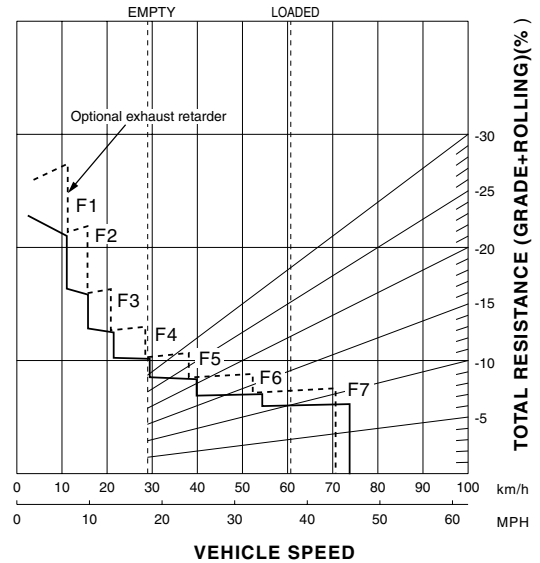
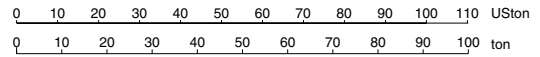
Brake performance

Distance: Continuous
GROSS VEHICLE WEIGHT



FVBH0064

Distance: 450 m (1500 ft)
GROSS VEHICLE WEIGHT

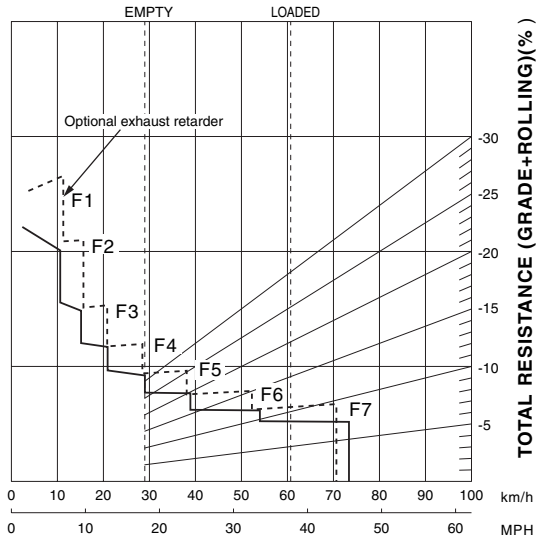
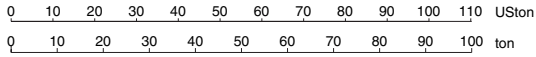


FVBH0065

Brake performance

Distance: 600 m (2000 ft)

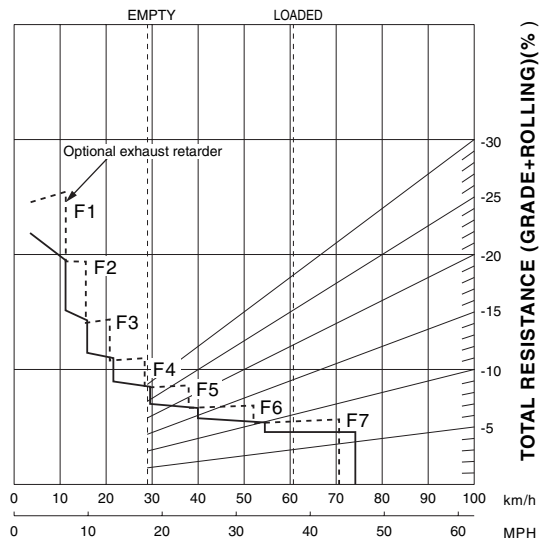
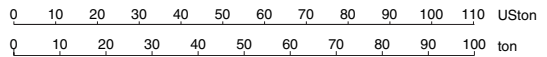
GROSS VEHICLE WEIGHT



FVBH0066

Distance: 900 m (3000 ft)

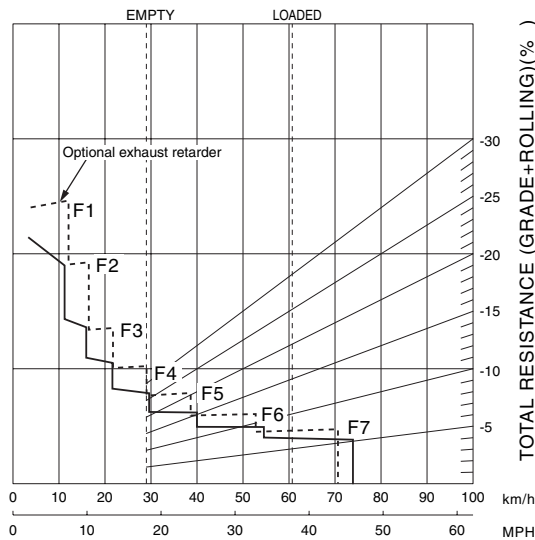
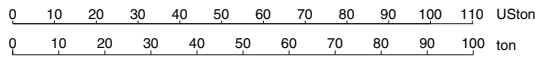
GROSS VEHICLE WEIGHT



FVBH0067

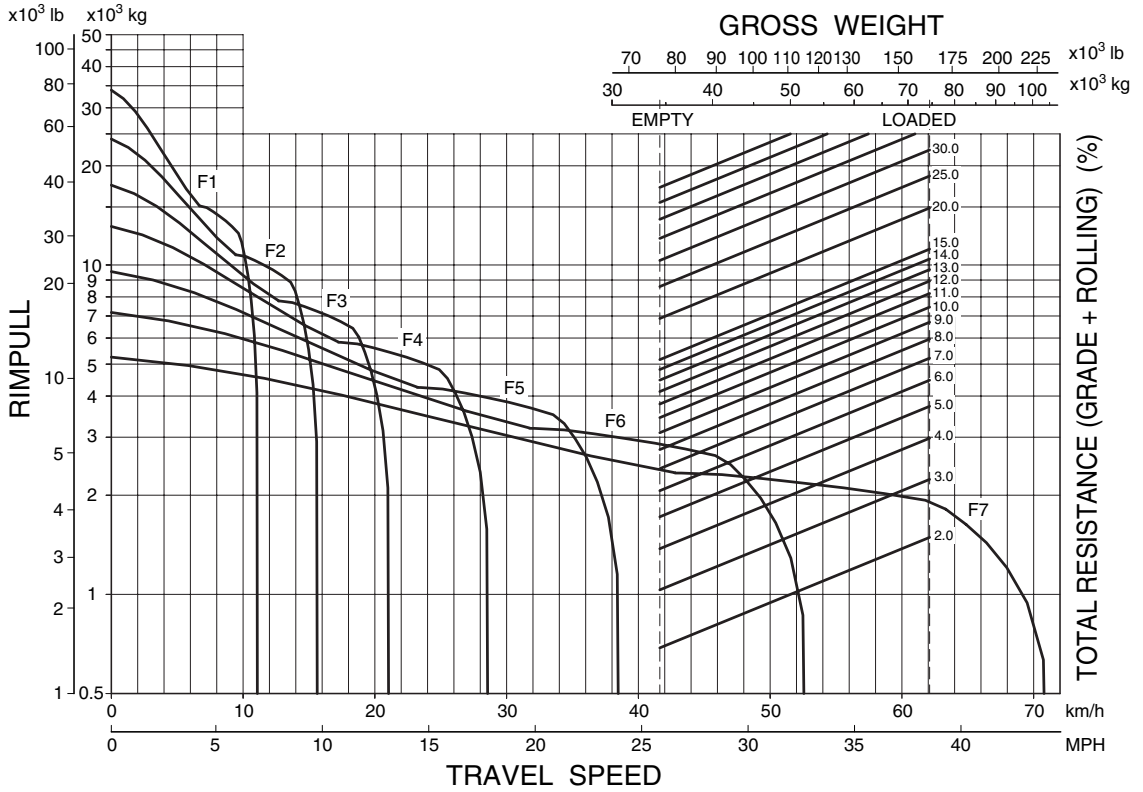
Distance: 1500 m (5000 ft)

GROSS VEHICLE WEIGHT



FVBH0068

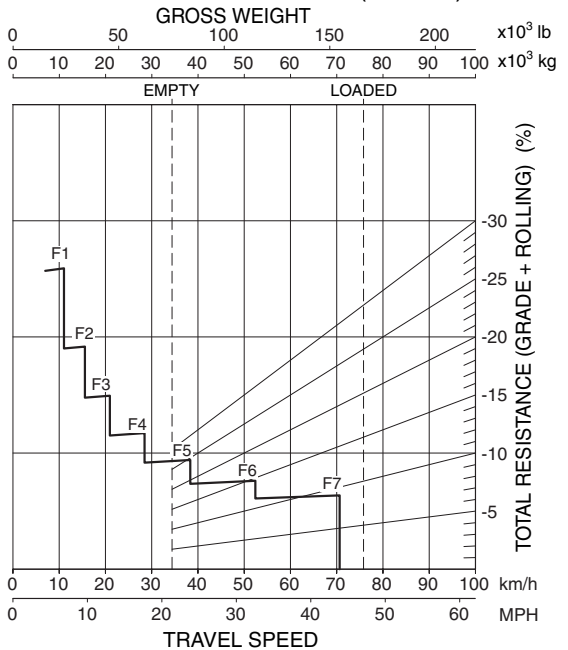
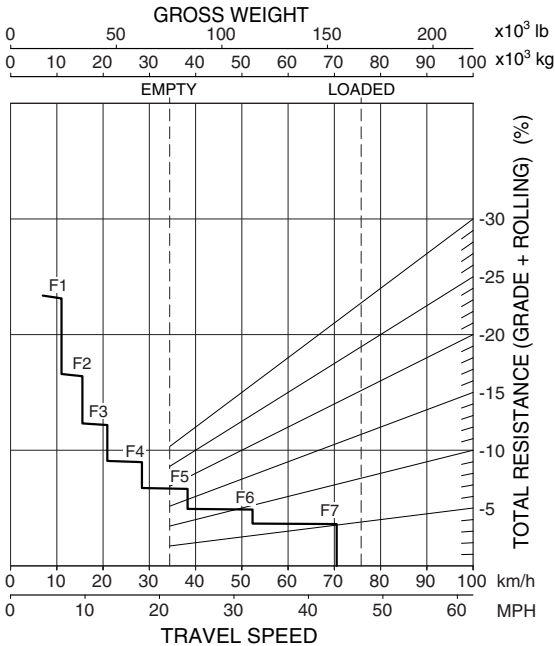
Travel Performance Curve



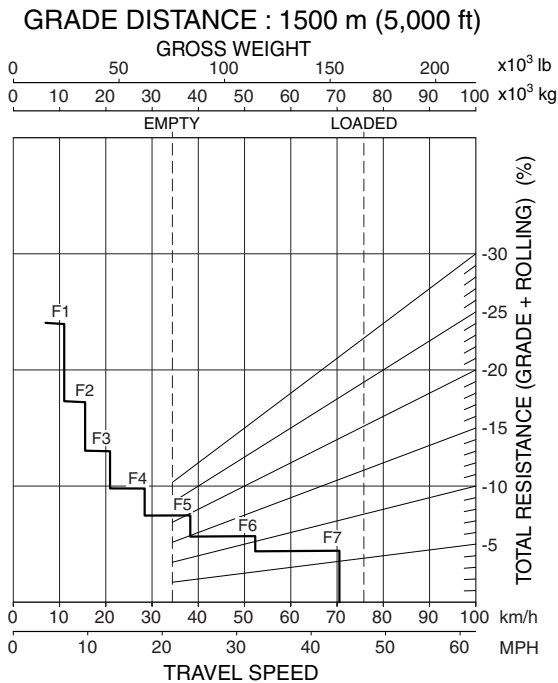
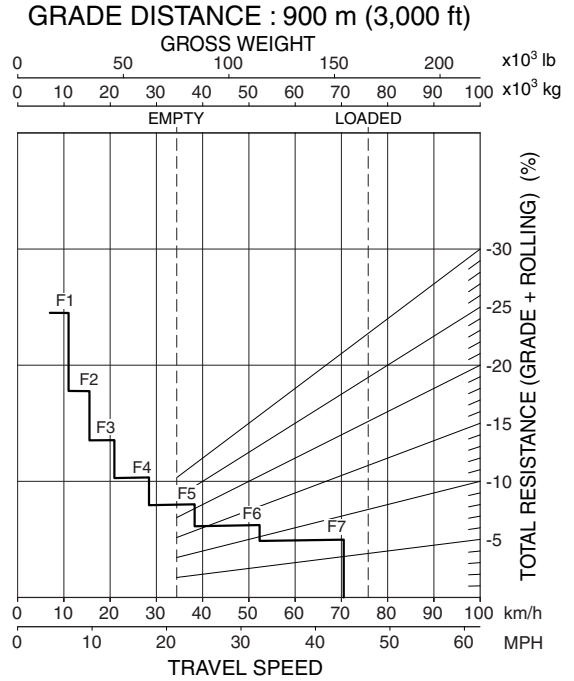
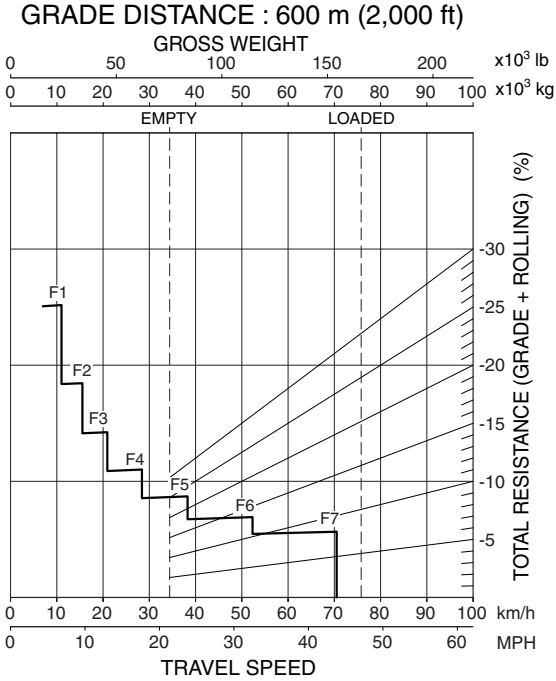
Brake performance

GRADE DISTANCE : CONTINUOUS DESCENT

GRADE DISTANCE : 450 m (1,500 ft)



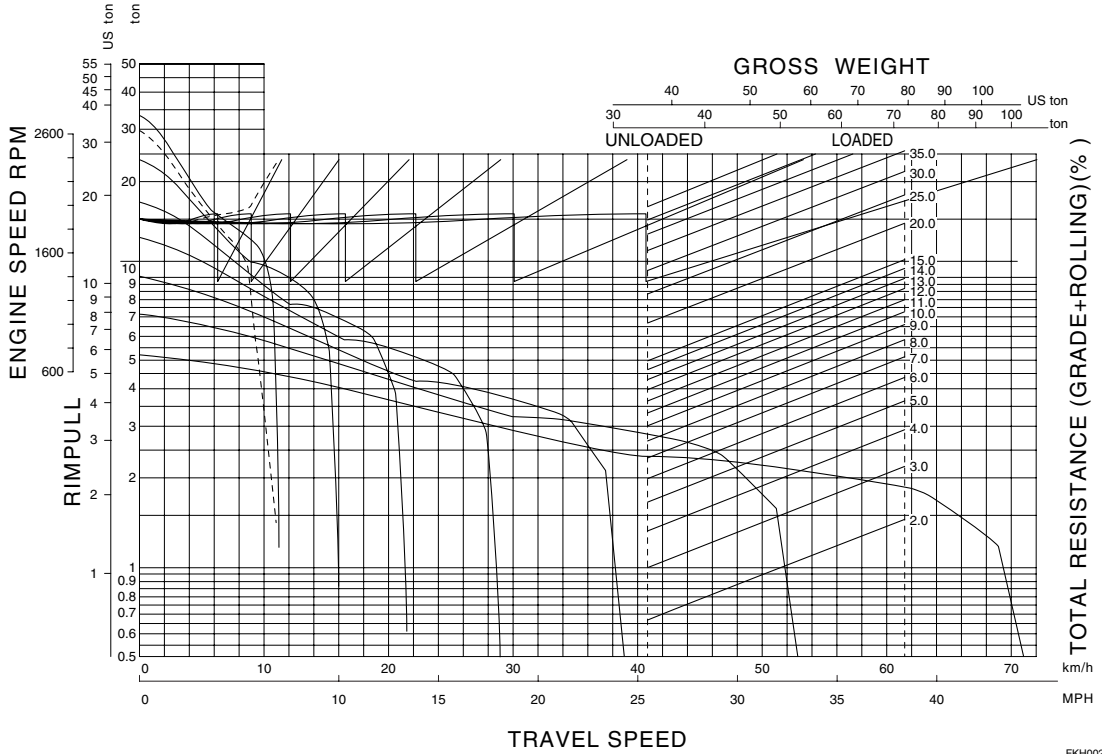
Brake performance



HD405-6 Performance Curves

**RIGID
DUMP TRUCKS**

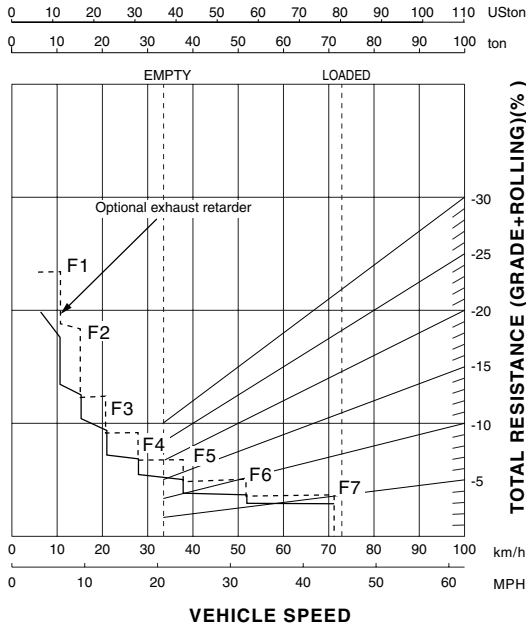
Travel Performance Curve



FKH00220

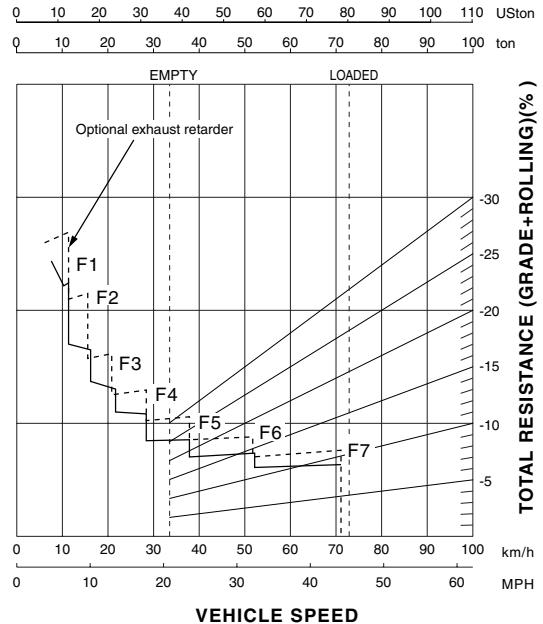
Brake performance

**Distance: Continuous Descent
GROSS VEHICLE WEIGHT**



FVBH0069

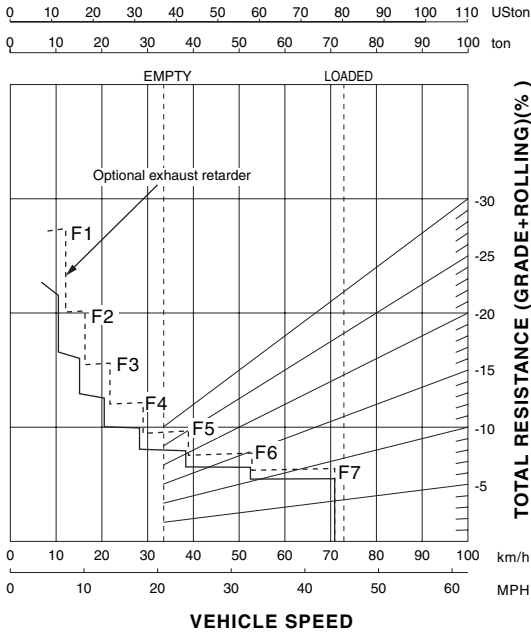
**Distance: 450 m (1500 ft)
GROSS VEHICLE WEIGHT**



FVBH00070

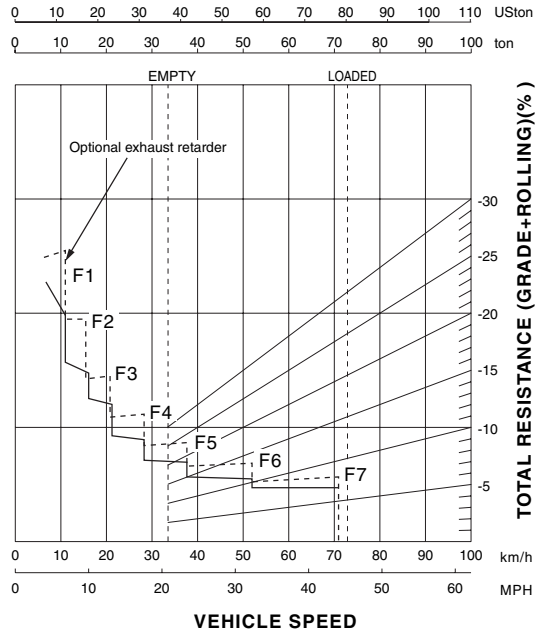
Brake performance

Distance: 600 m (2000 ft)
GROSS VEHICLE WEIGHT



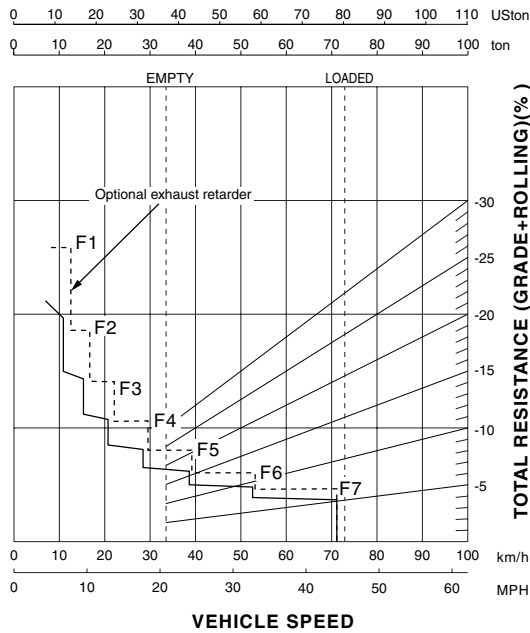
FVBH0071

Distance: 900 m (3000 ft)
GROSS VEHICLE WEIGHT



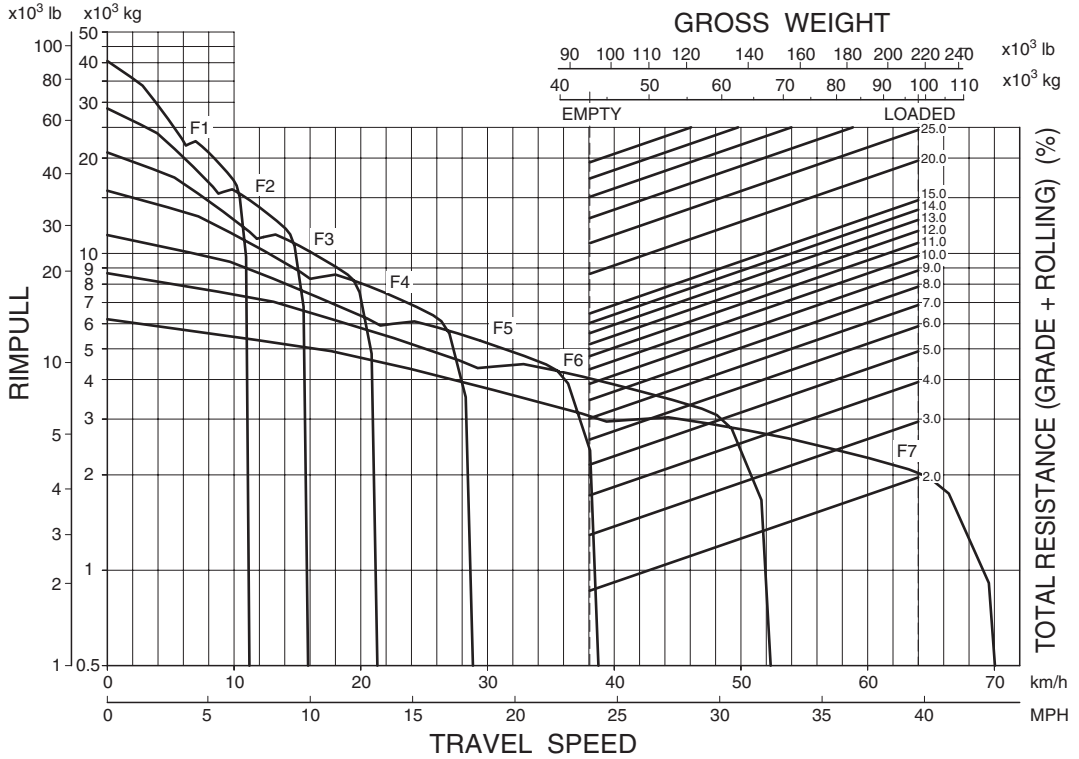
FVBH0072

Distance: 1500 m (5000 ft)
GROSS VEHICLE WEIGHT



FVBH0073

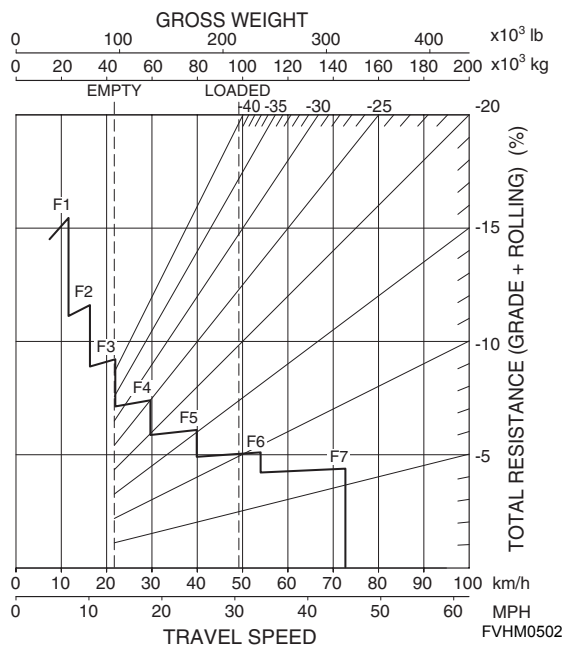
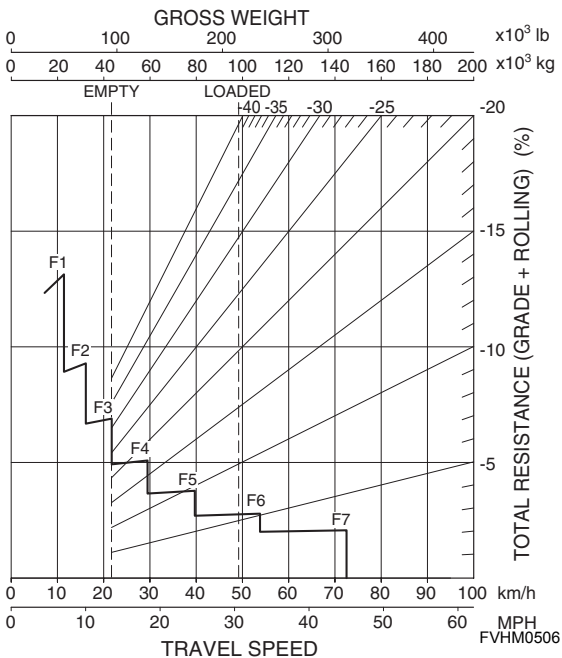
Travel Performance Curve



Brake performance

GRADE DISTANCE : CONTINUOUS DESCENT

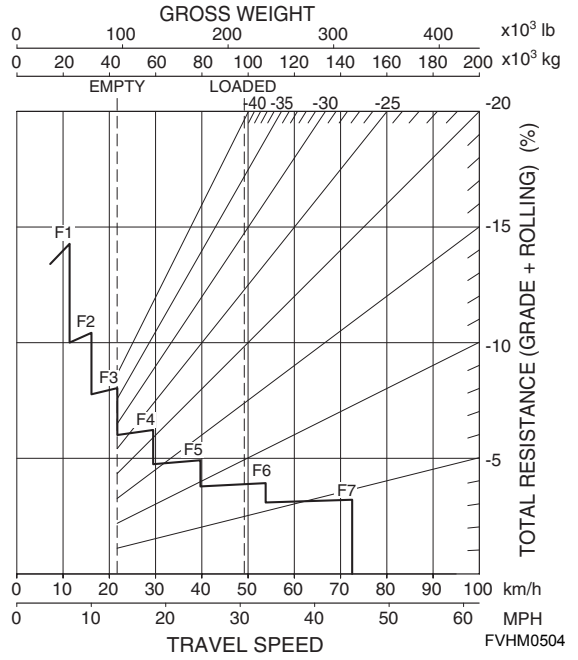
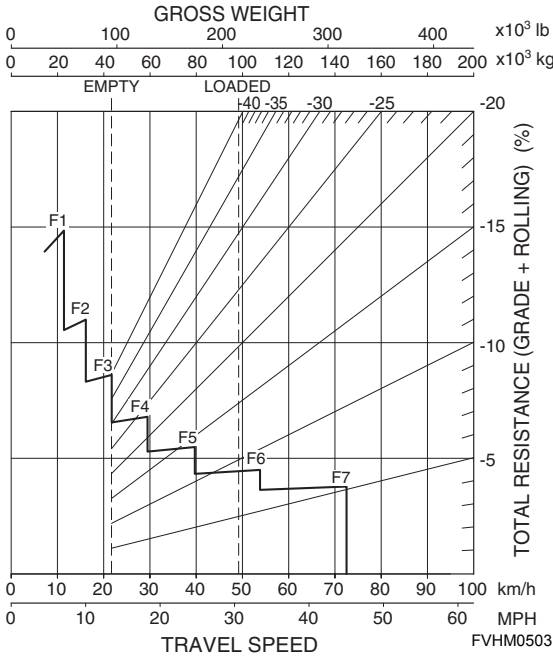
GRADE DISTANCE : 450 m (1,500 ft)



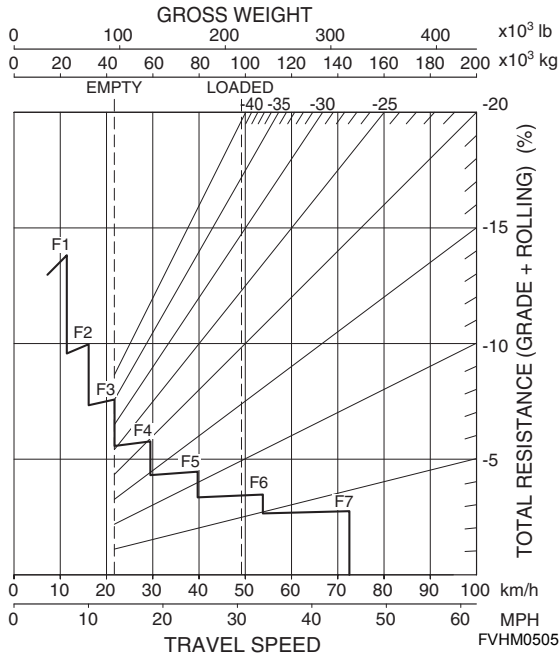
Brake performance

GRADE DISTANCE : 600 m (2,000 ft)

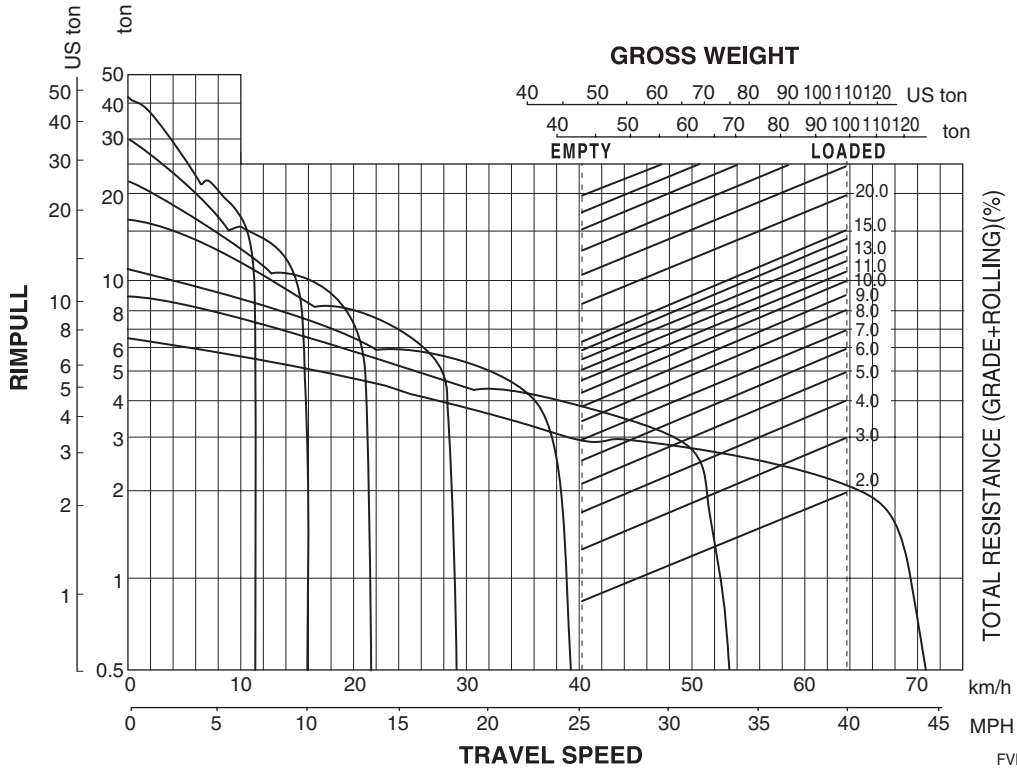
GRADE DISTANCE : 900 m (3,000 ft)



GRADE DISTANCE : 1500 m (5,000 ft)



Travel Performance Curve

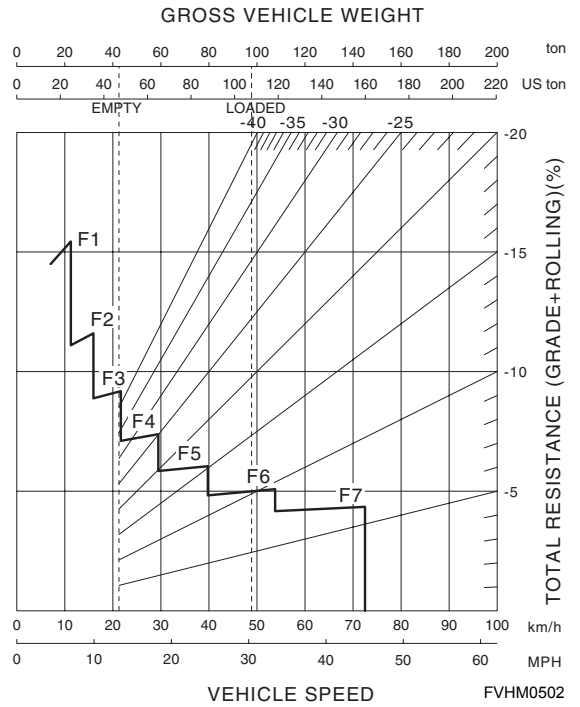
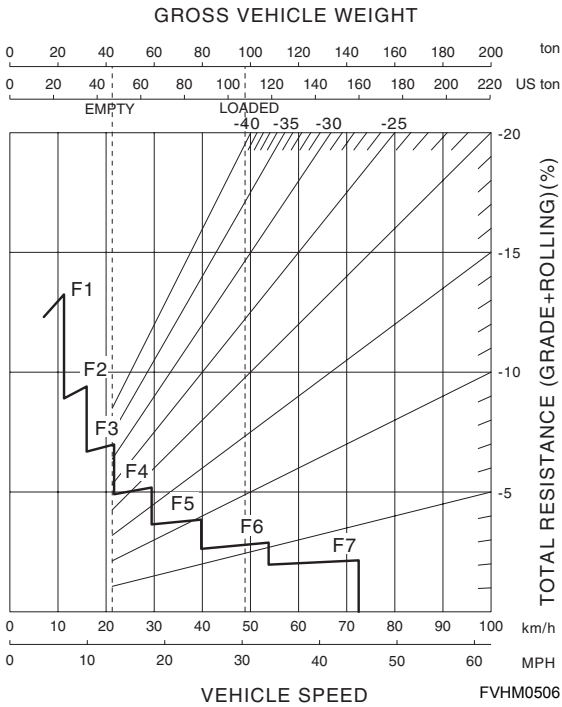


FVBH0150

Brake performance

GRADE DISTANCE: Continuous

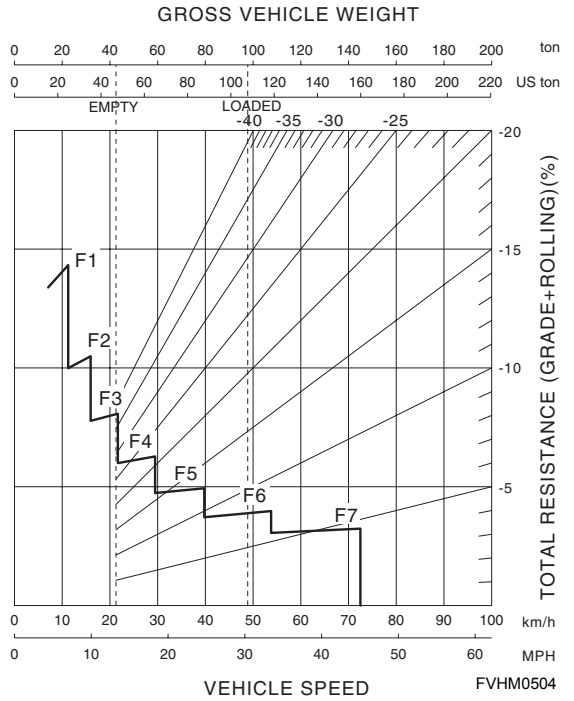
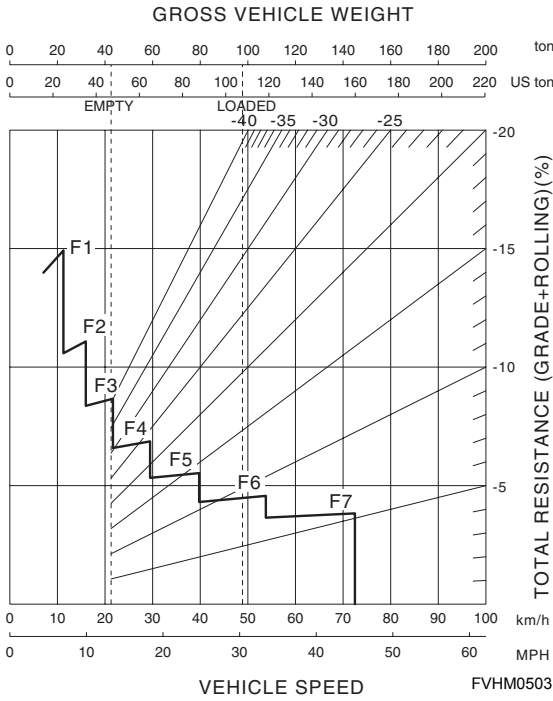
GRADE DISTANCE: 450 m (1,500 ft)



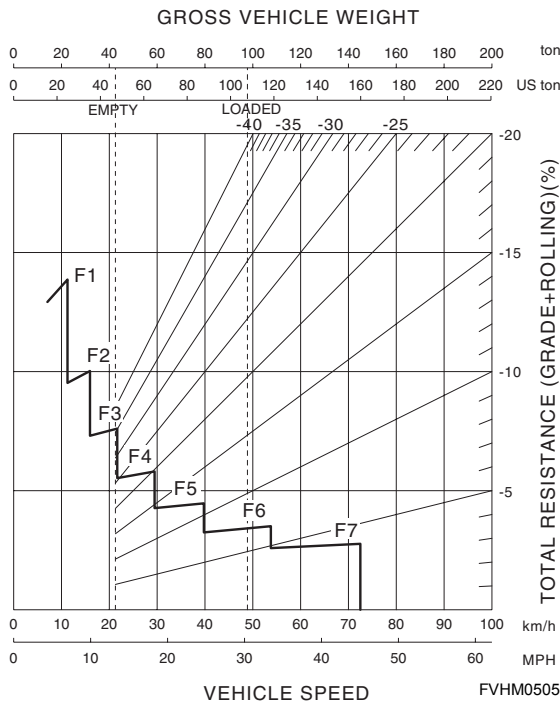
Brake performance

Grade distance: 600 m (2,000 ft)

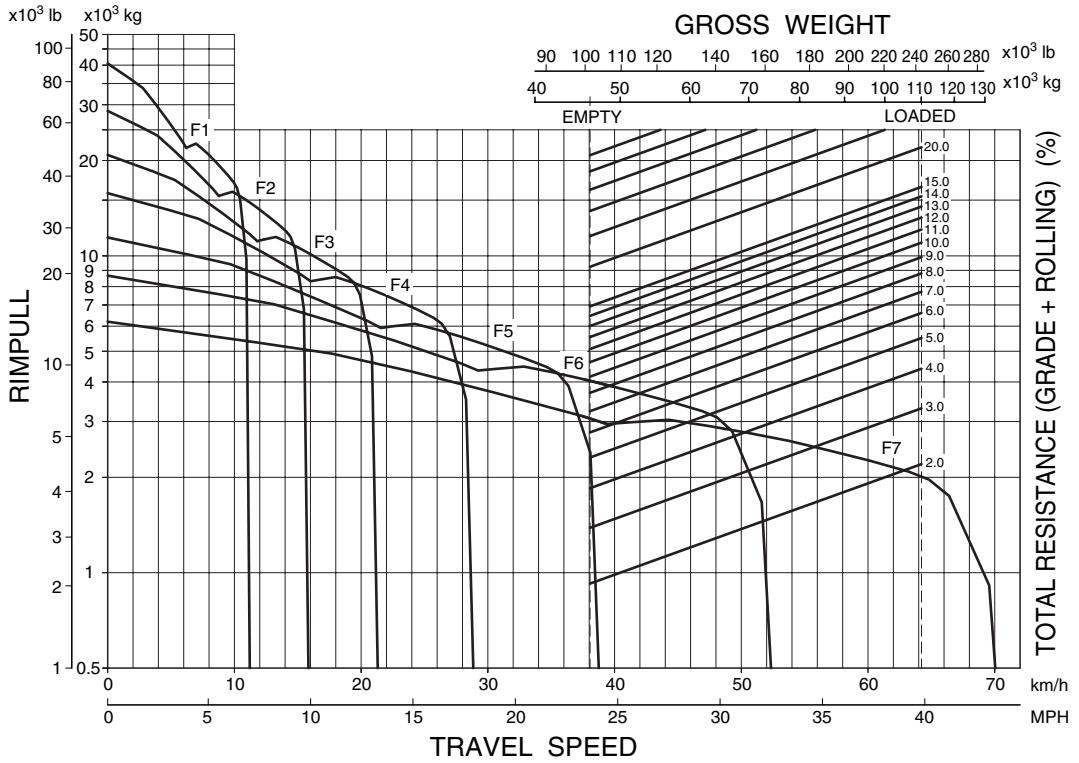
Grade distance: 900 m (3,000 ft)



Grade distance: 1500 m (5,000 ft)

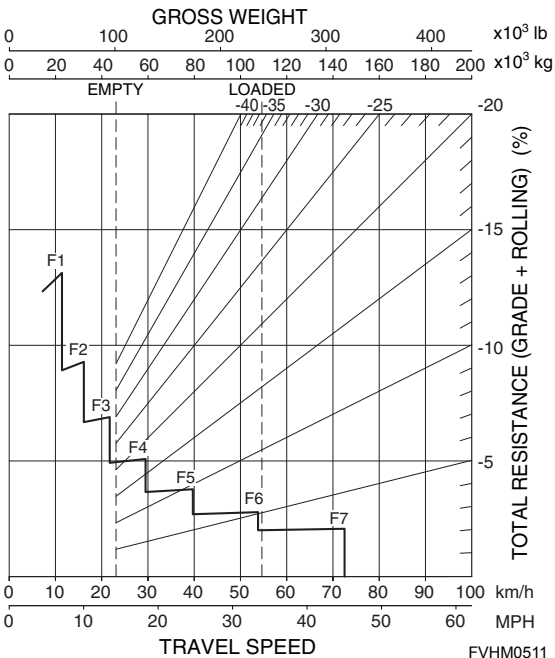


Travel Performance Curve

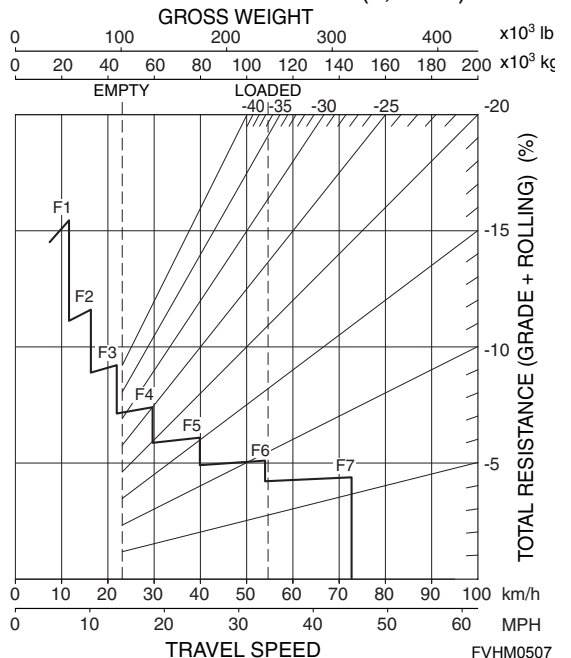


Brake performance

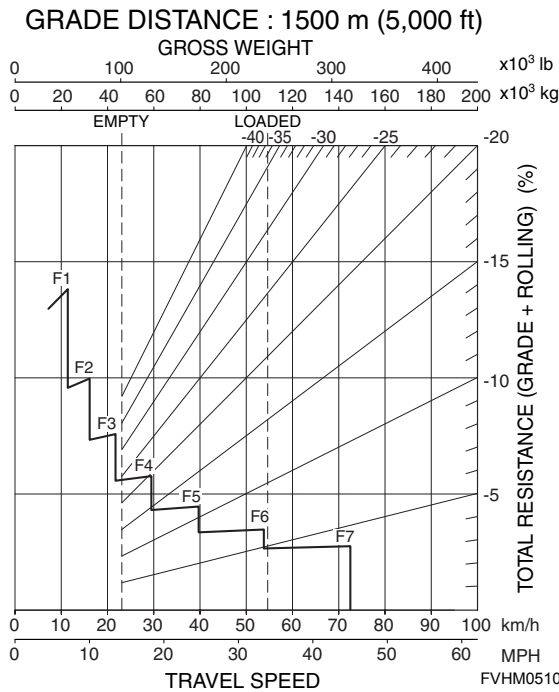
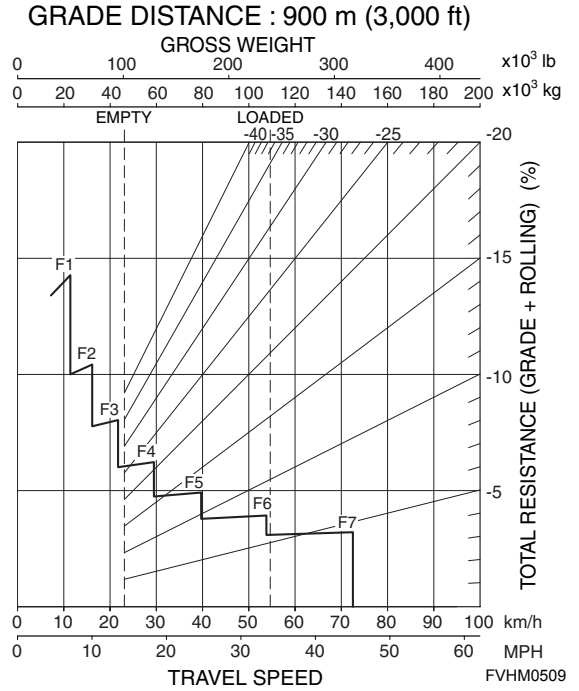
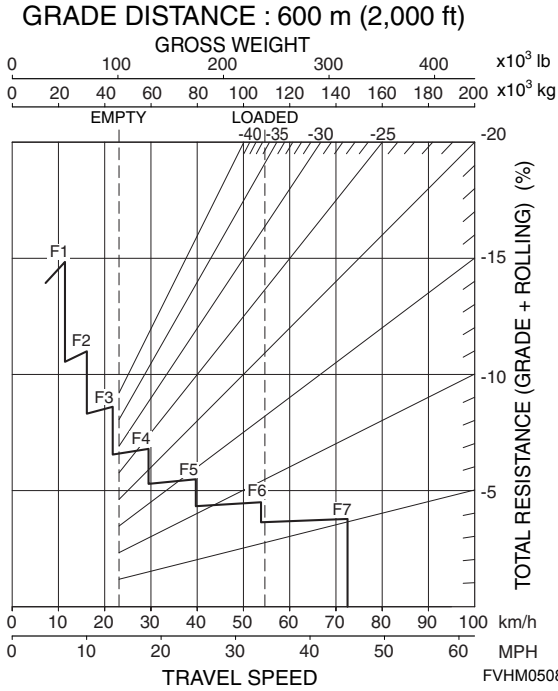
GRADE DISTANCE : CONTINUOUS DESCENT



GRADE DISTANCE : 450 m (1,500 ft)



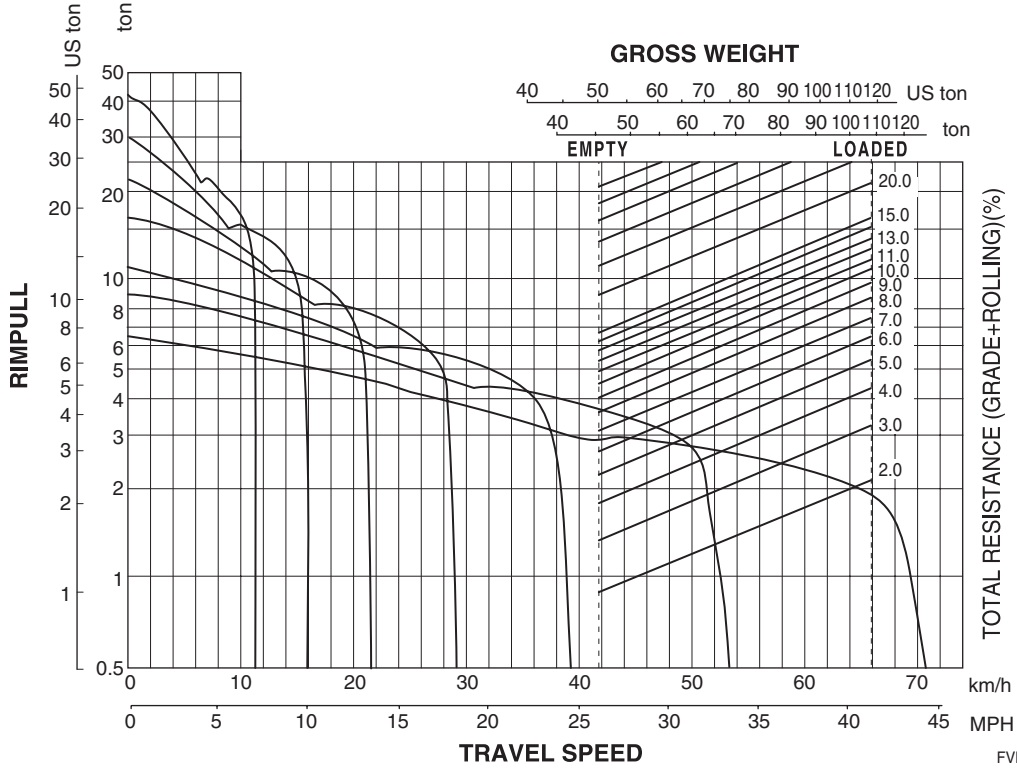
Brake performance



HD605-7 Performance Curves

**RIGID
DUMP TRUCKS**

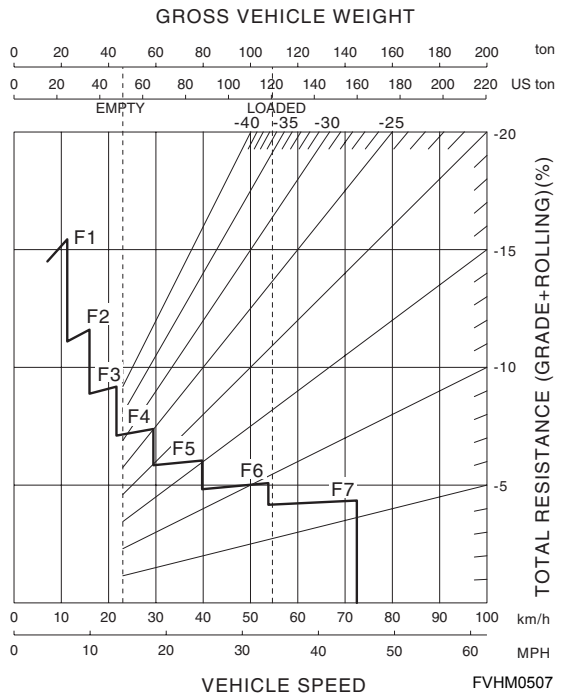
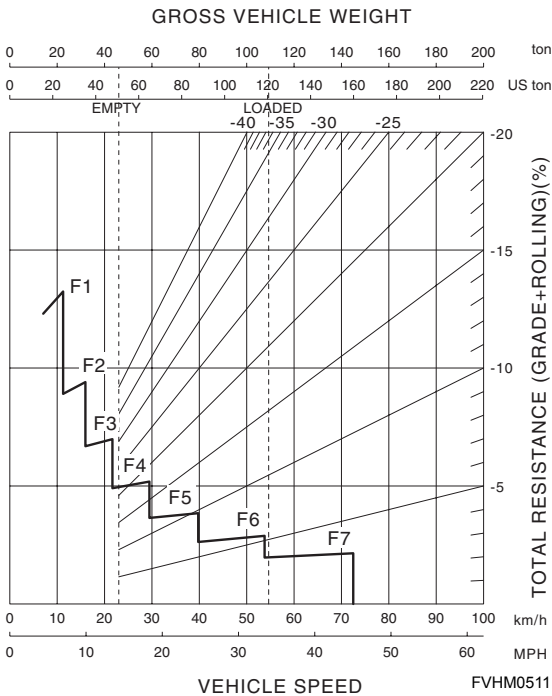
Travel Performance Curve



Brake performance

Grade distance: Continuous

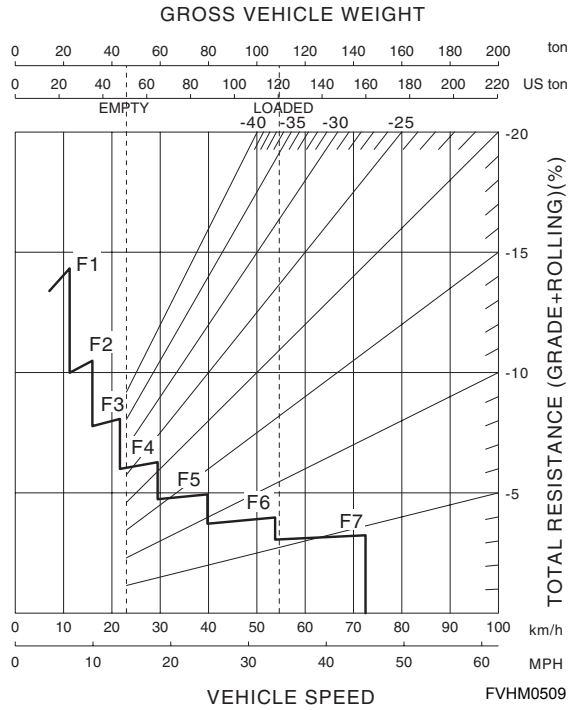
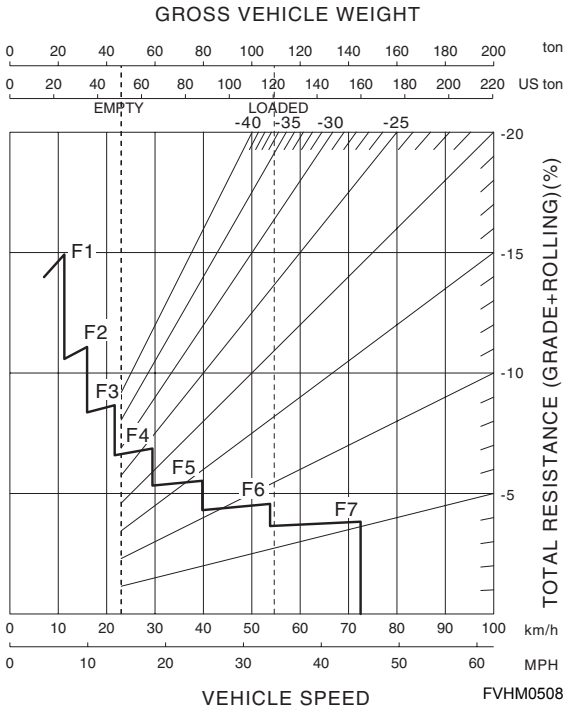
Grade distance: 450 m (1,500 ft)



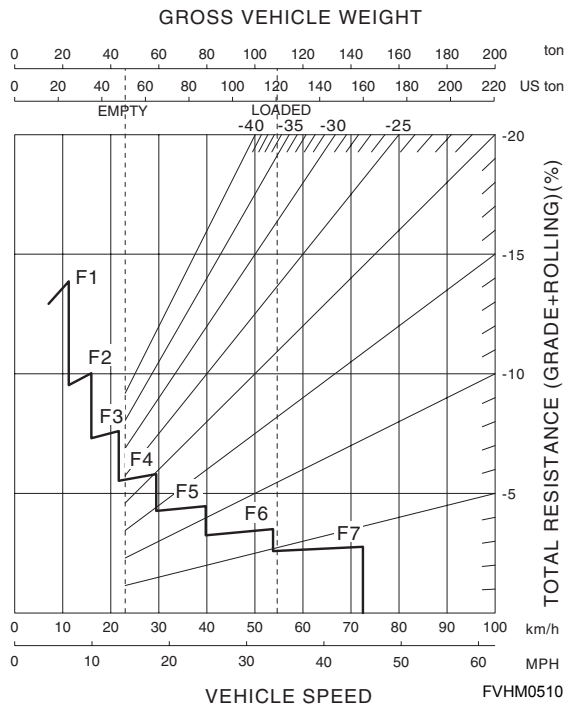
Brake performance

Grade distance: 600 m (2,000 ft)

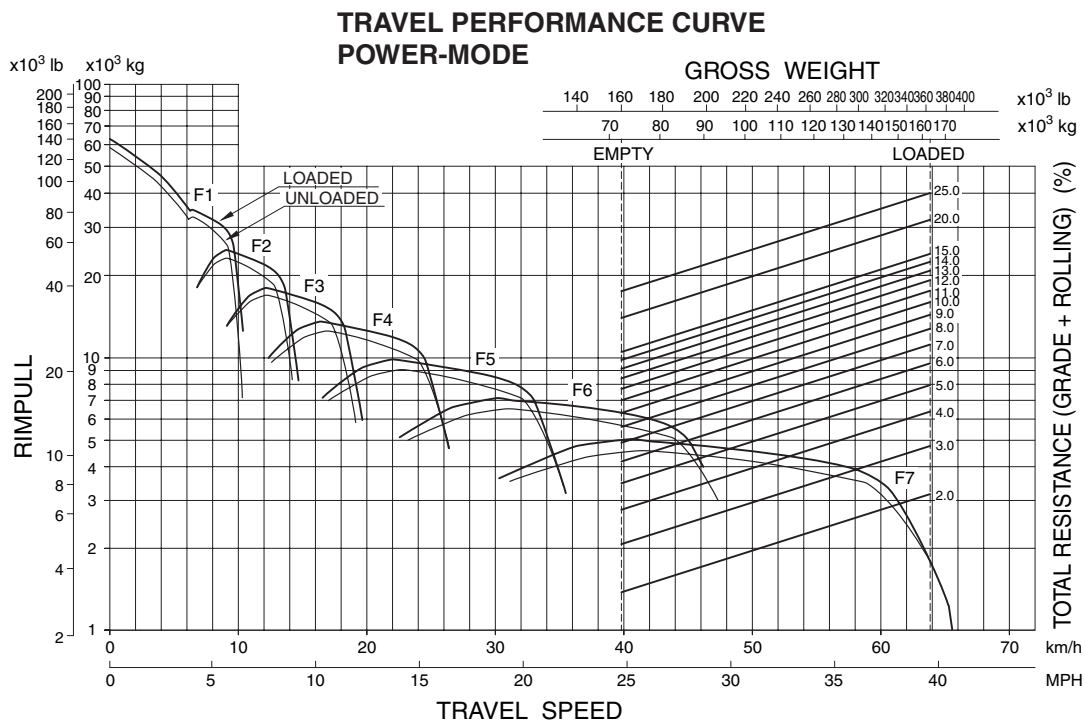
Grade distance: 900 m (3,000 ft)



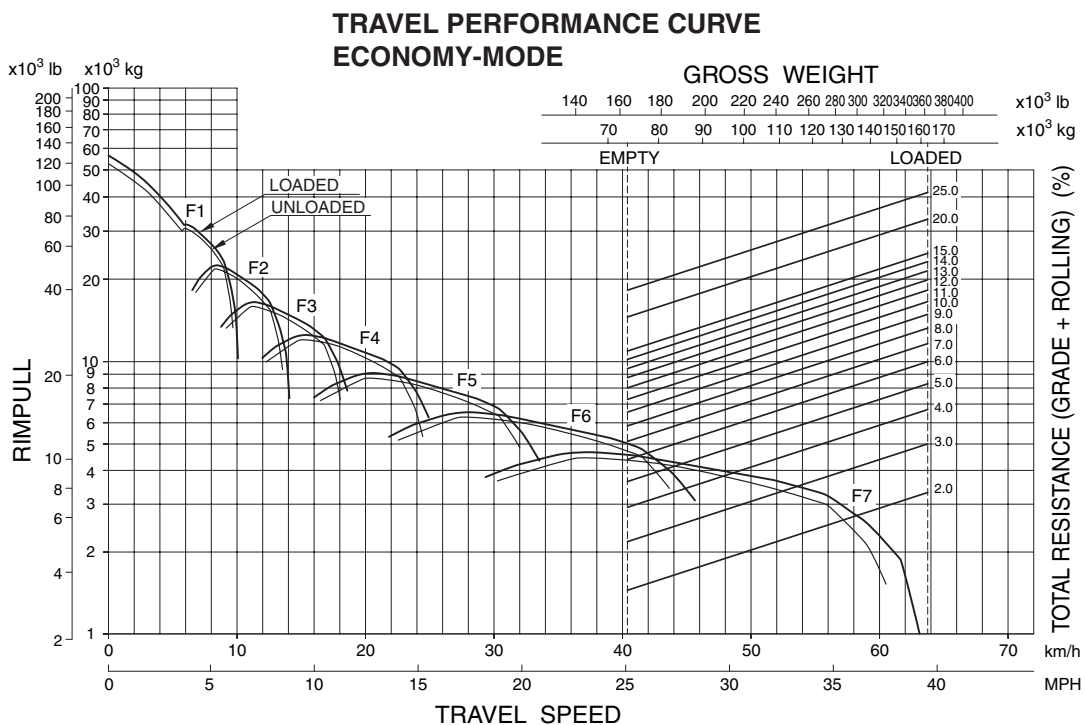
Grade distance: 1500 m (5,000 ft)



Travel Performance Curve
Power-mode

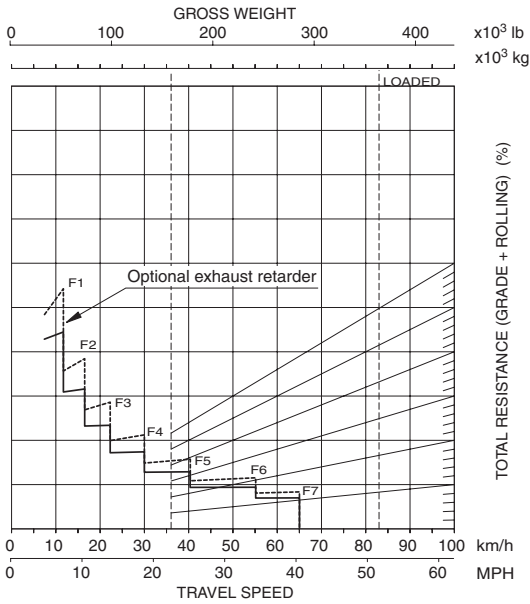


Travel Performance Curve
Economy-mode

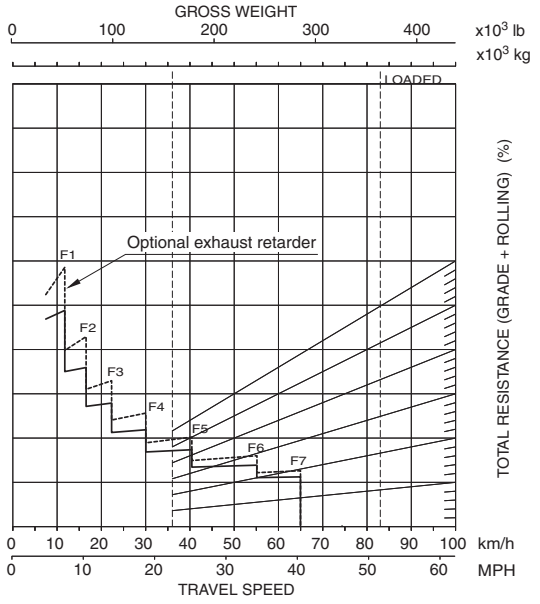


Brake performance

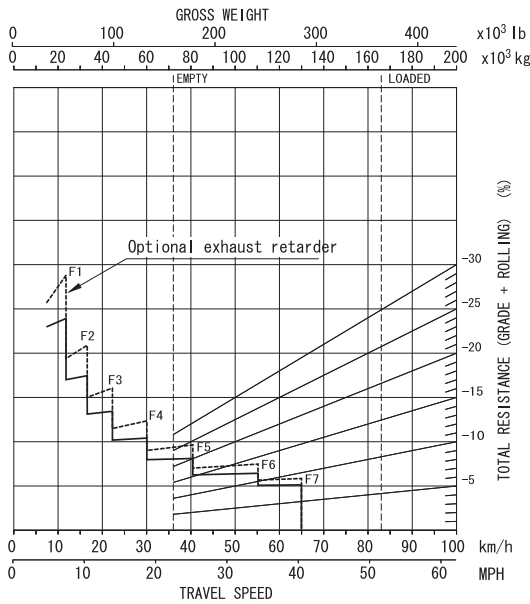
Grade distance : Continuous Descent



Grade distance : 450m (1,500 ft)

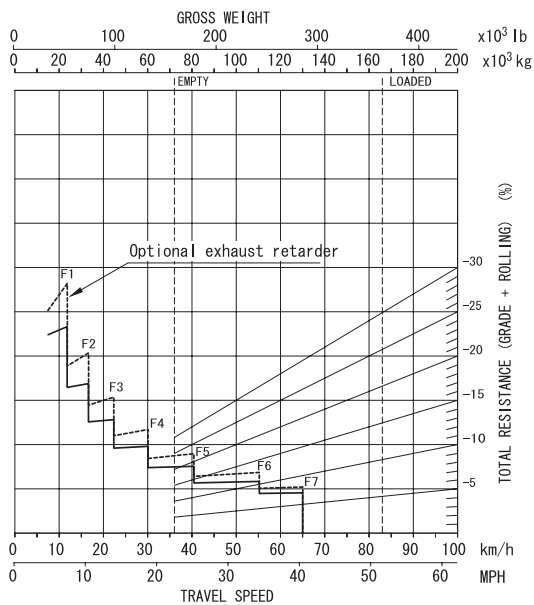


Grade distance : 600m (2,000 ft)

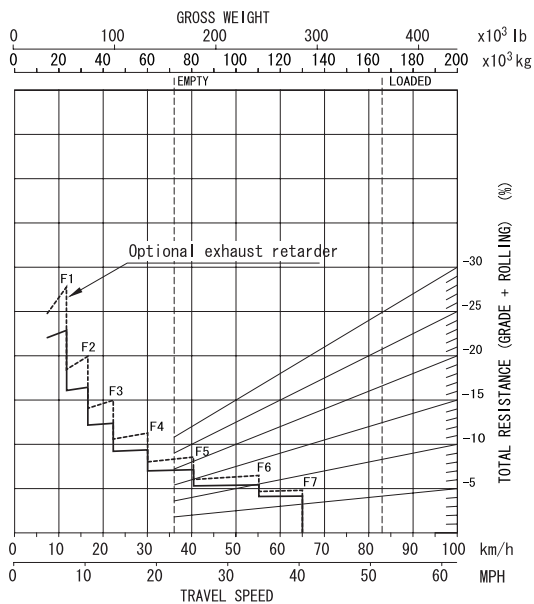


Brake performance

Grade distance : 900m (3,000 ft)



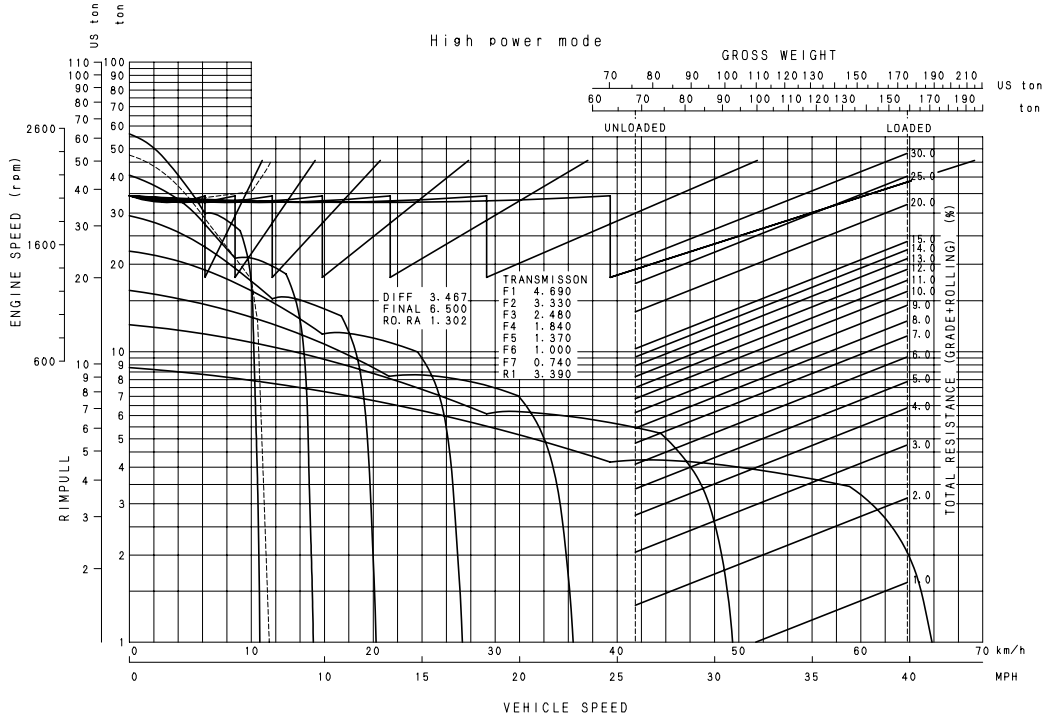
Grade distance : 1500m (5,000 ft)



HD785-5 Performance Curves

**RIGID
DUMP TRUCKS**

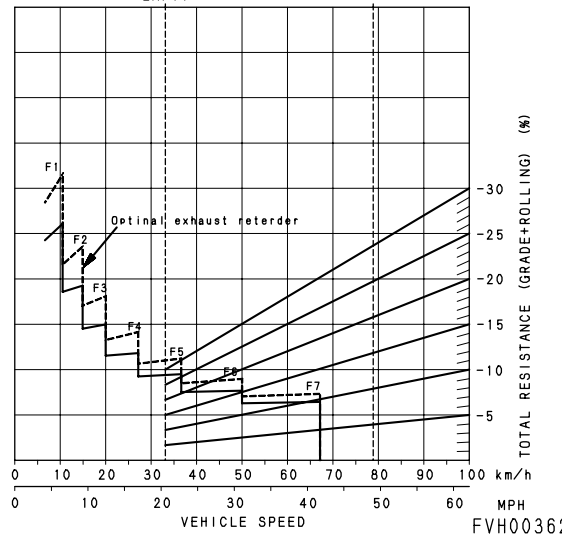
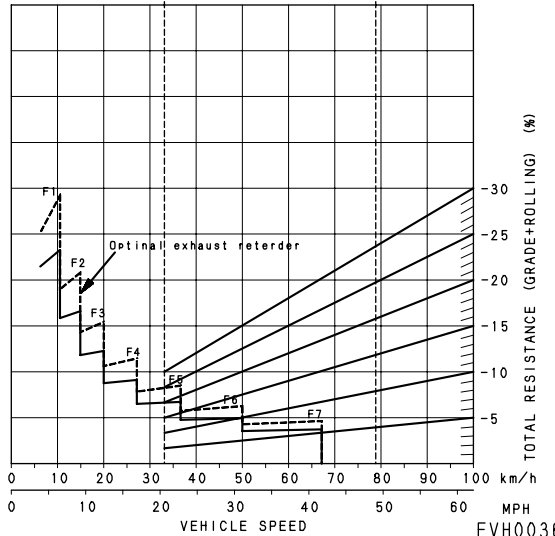
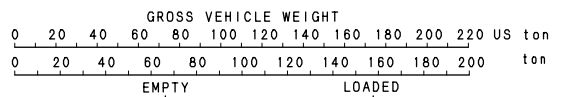
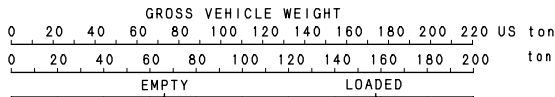
Travel Performance Curve



Brake performance

DISTANCE CONTINUOUS

DISTANCE 450m (1,500ft)



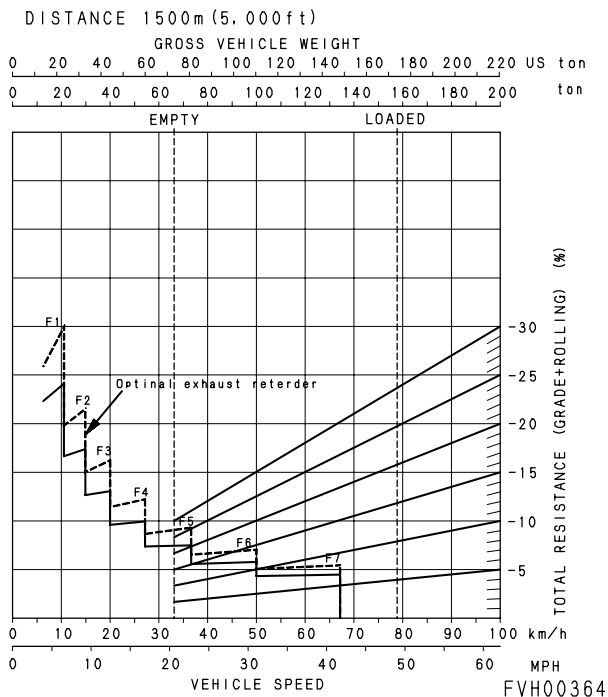
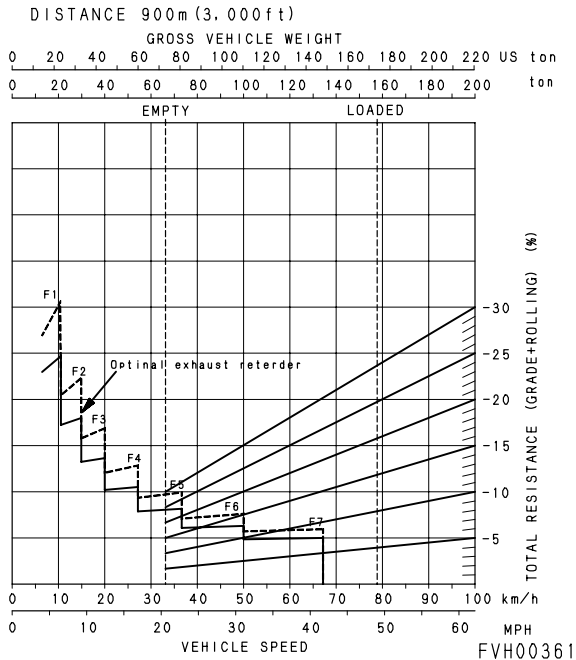
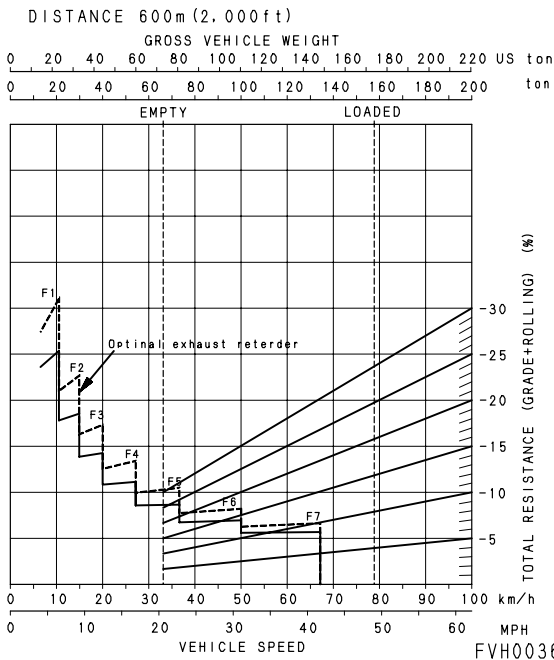
FVH00360

FVH00362

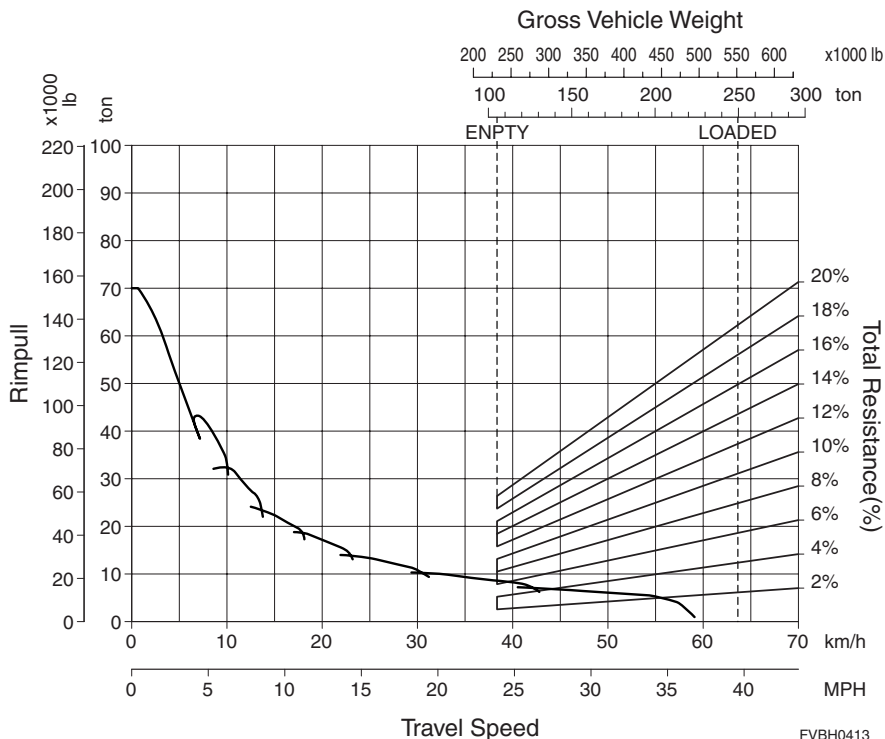
HD785-5 Performance Curves

**RIGID
DUMP TRUCKS**

Brake performance

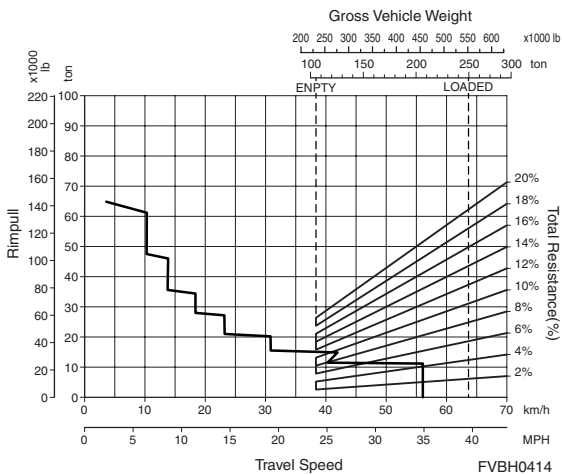


Travel performance

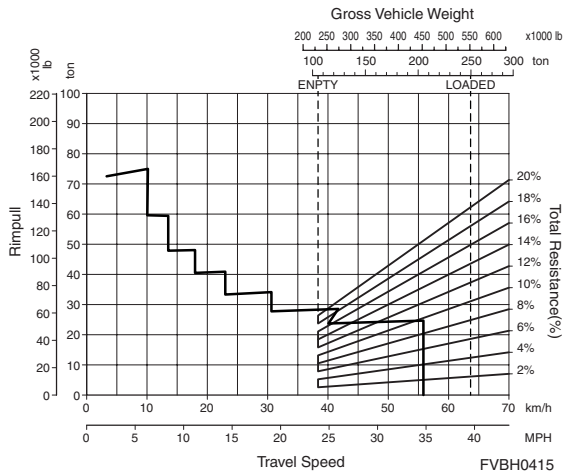


FVBH0413

Brake performance

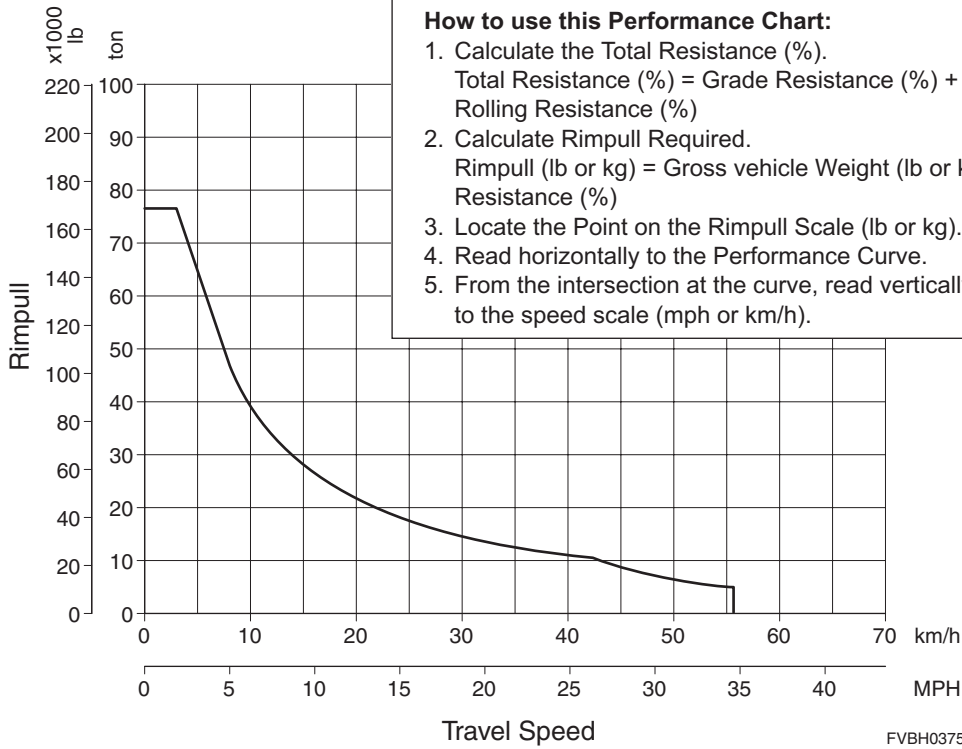


FVBH0414

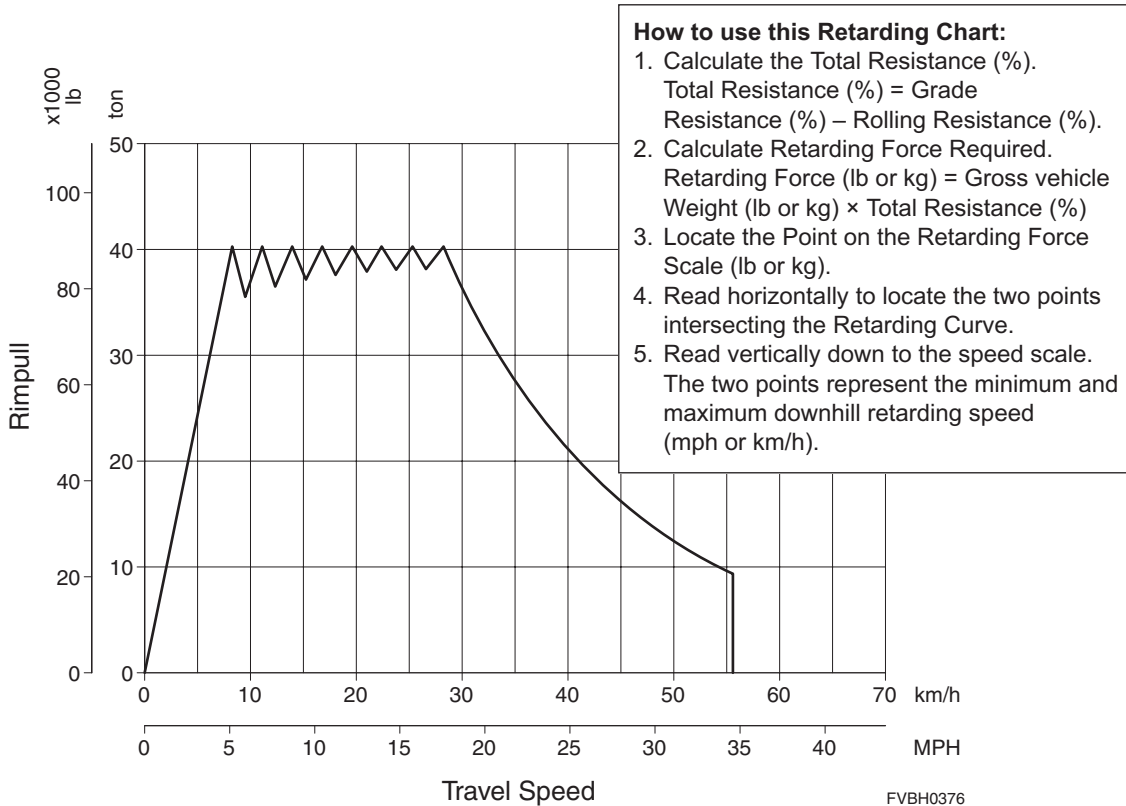


FVBH0415

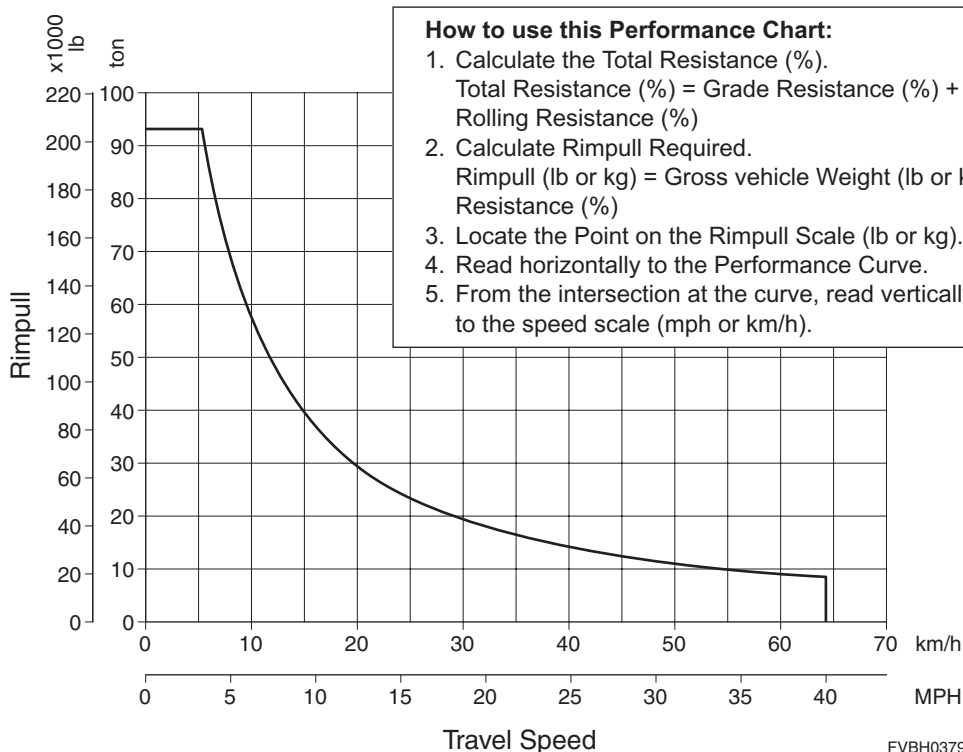
Travel performance



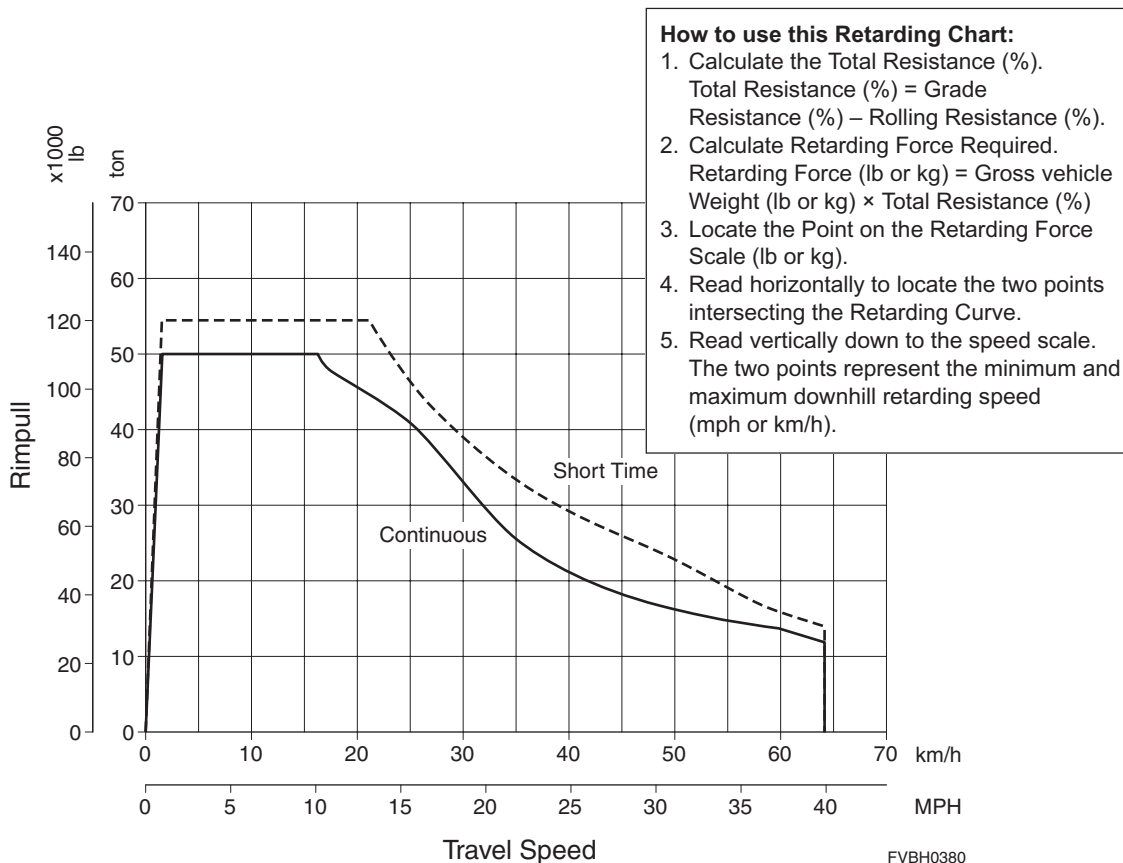
Brake performance



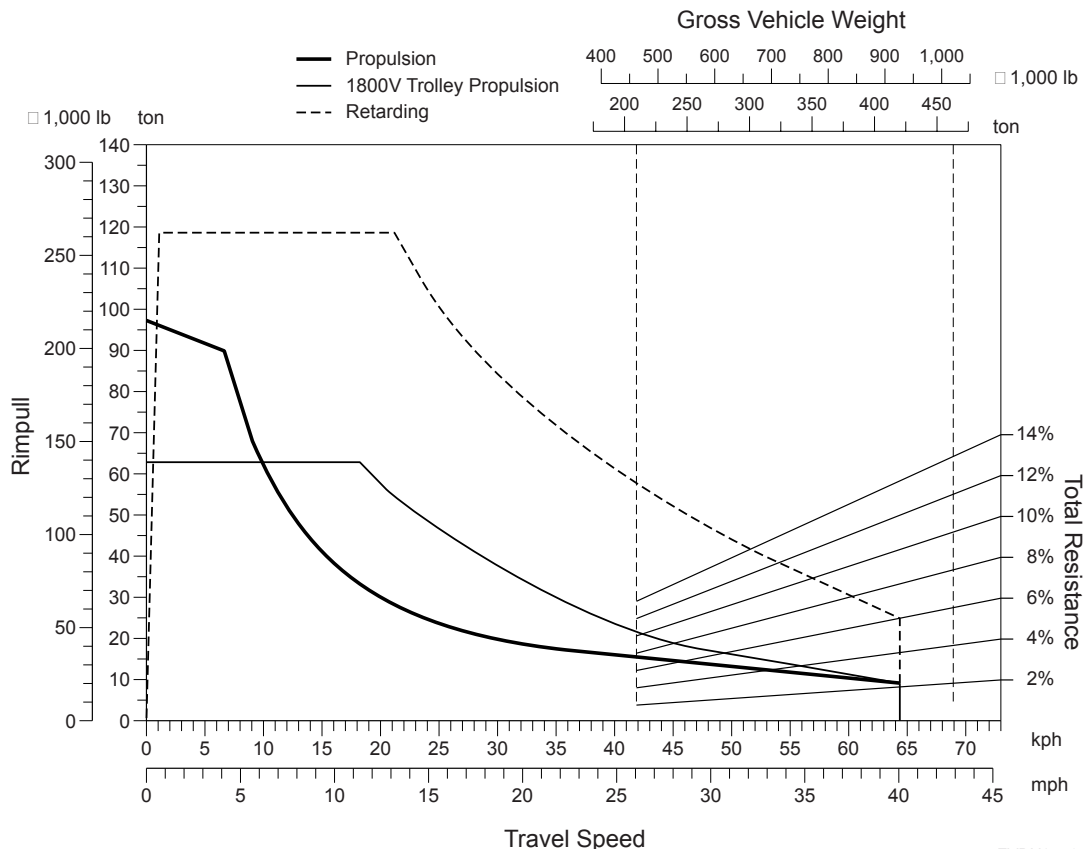
Travel performance



Brake performance



Travel and brake performance



FVBH0459

How to use this Performance Chart:

1. Calculate the Total Resistance (%).

$$\text{Total Resistance (\%)} = \text{Grade Resistance (\%)} + \text{Rolling Resistance (\%)}$$
2. Calculate Rimpull Required.

$$\text{Rimpull (lb or kg)} = \text{Gross vehicle Weight (lb or kg)} \times \text{Total Resistance (\%)}$$
3. Locate the Point on the Rimpull Scale (lb or kg).
4. Read horizontally to the Performance Curve.
5. From the intersection at the curve, read vertically down to the speed scale (mph or km/h).

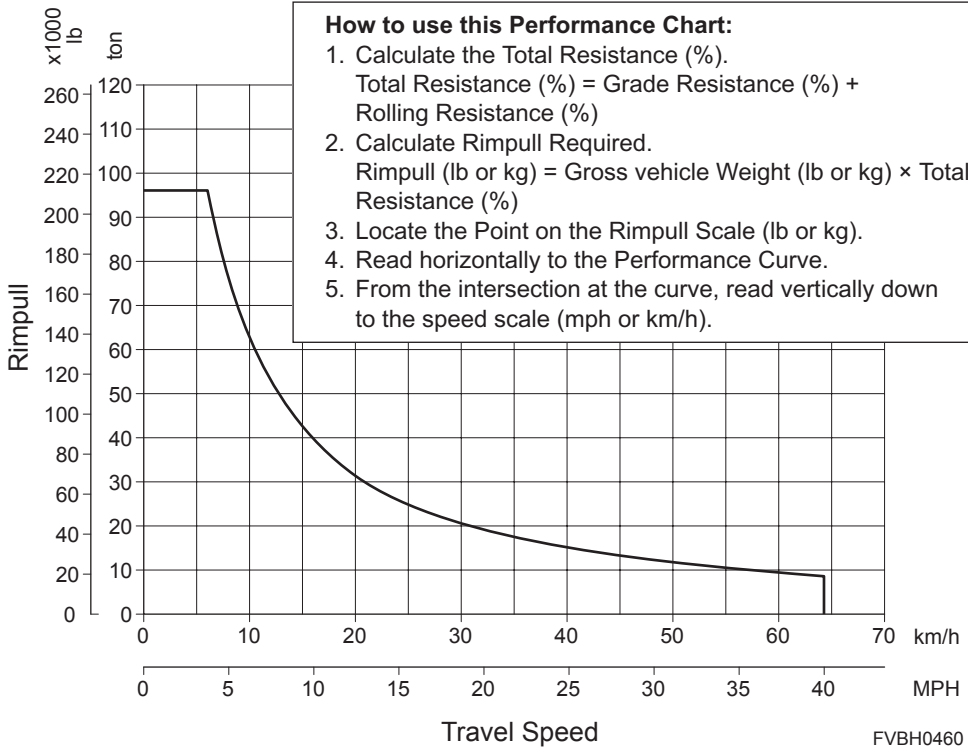
How to use this Retarding Chart:

1. Calculate the Total Resistance (%).

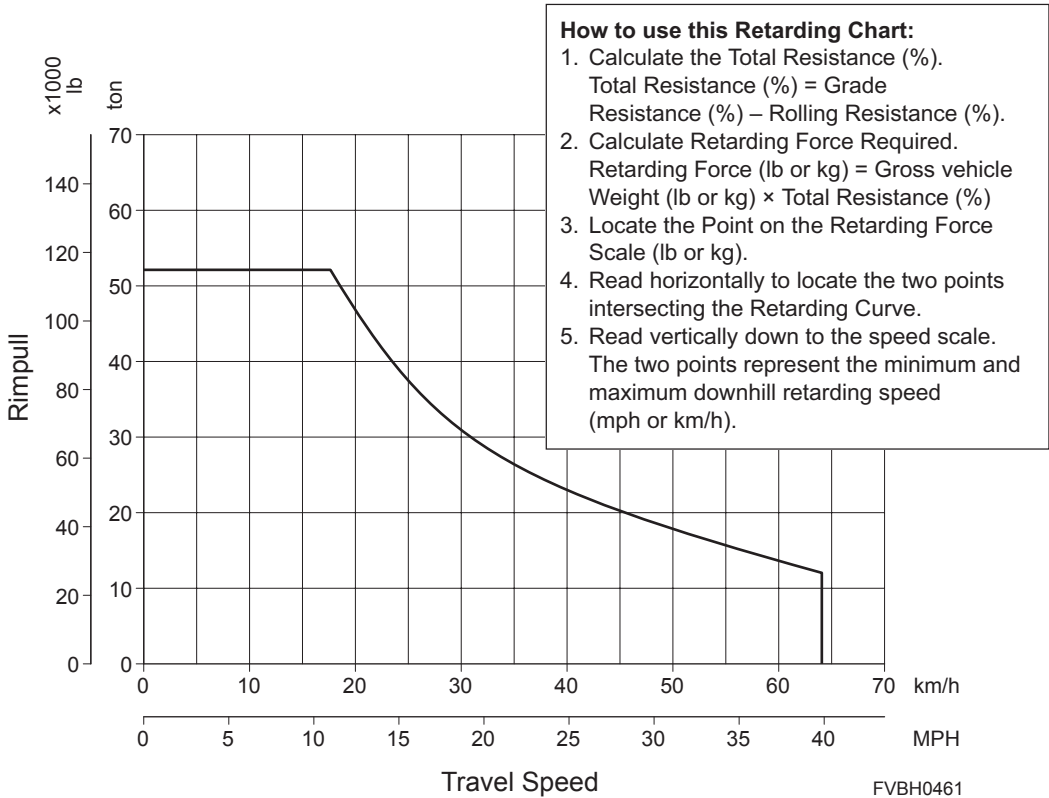
$$\text{Total Resistance (\%)} = \text{Grade Resistance (\%)} - \text{Rolling Resistance (\%)}$$
2. Calculate Retarding Force Required.

$$\text{Retarding Force (lb or kg)} = \text{Gross vehicle Weight (lb or kg)} \times \text{Total Resistance (\%)}$$
3. Locate the Point on the Retarding Force Scale (lb or kg).
4. Read horizontally to locate the two points intersecting the Retarding Curve.
5. Read vertically down to the speed scale.
 The two points represent the minimum and maximum downhill retarding speed (mph or km/h).

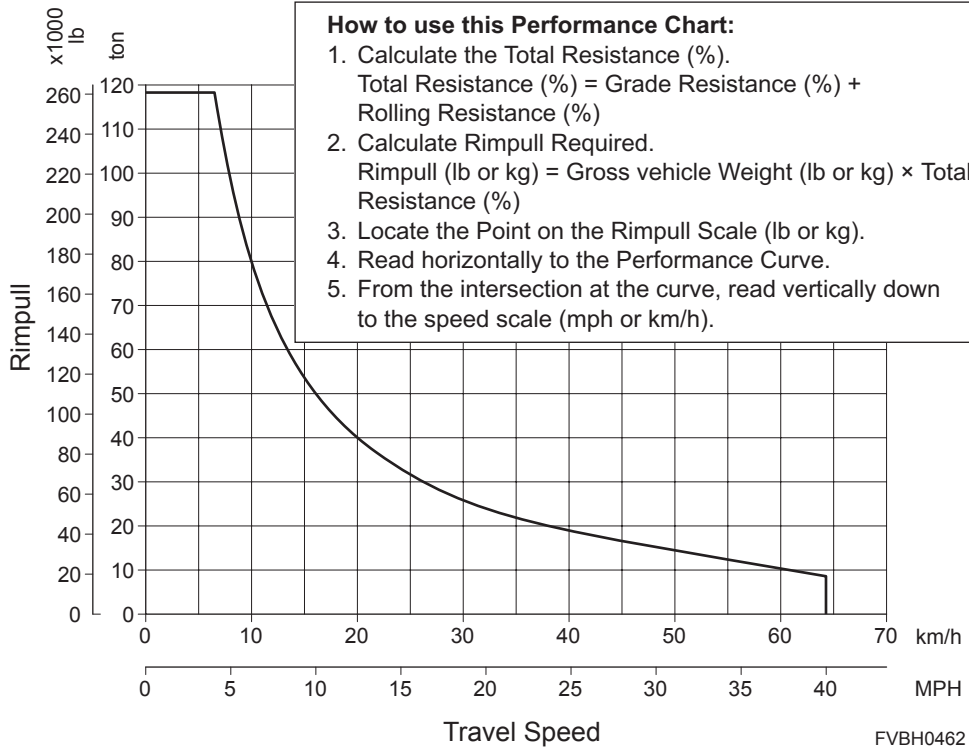
Travel performance



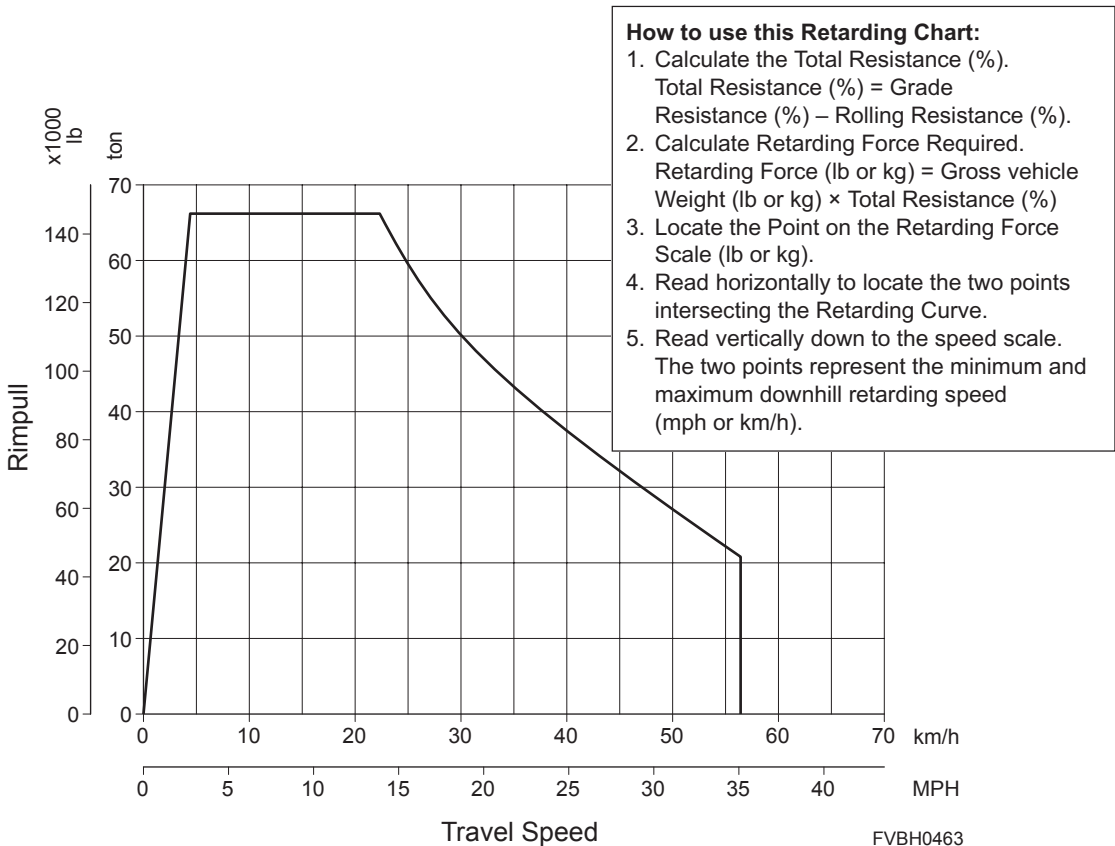
Brake performance



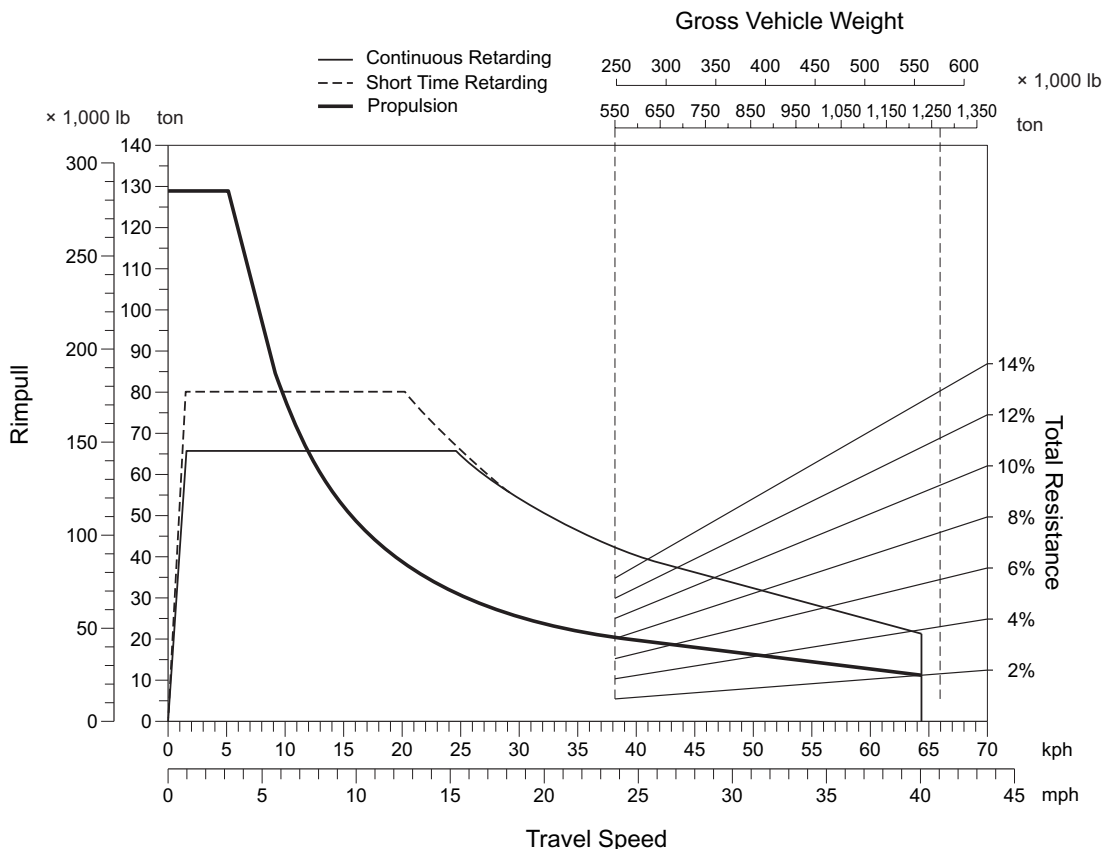
Travel performance



Brake performance



Travel and brake performance



FVBH0464

How to use this Performance Chart:

1. Calculate the Total Resistance (%).

$$\text{Total Resistance (\%)} = \text{Grade Resistance (\%)} + \text{Rolling Resistance (\%)}$$
2. Calculate Rimpull Required.

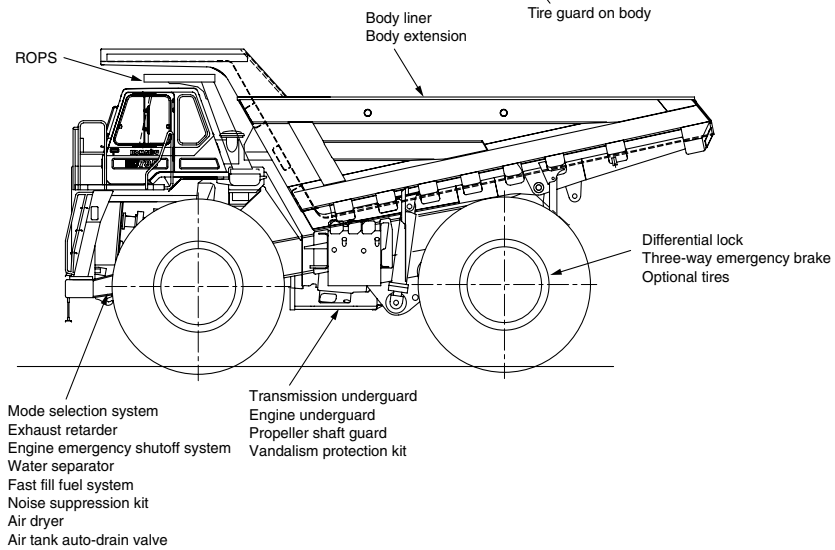
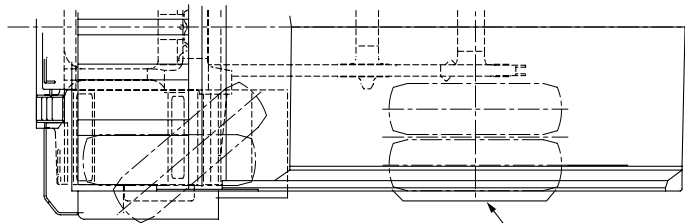
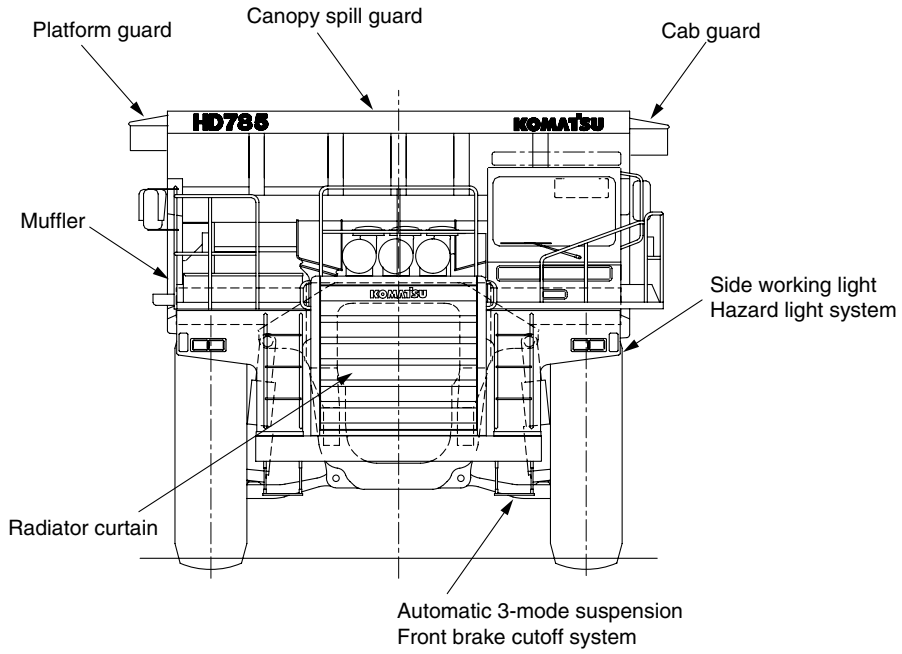
$$\text{Rimpull (lb or kg)} = \text{Gross vehicle Weight (lb or kg)} \times \text{Total Resistance (\%)}$$
3. Locate the Point on the Rimpull Scale (lb or kg).
4. Read horizontally to the Performance Curve.
5. From the intersection at the curve, read vertically down to the speed scale (mph or km/h).

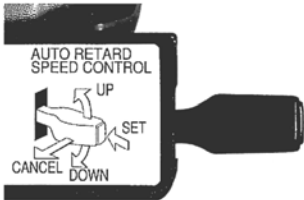
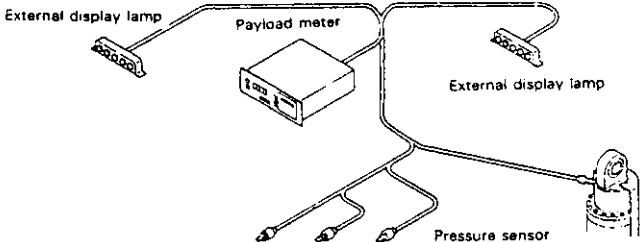
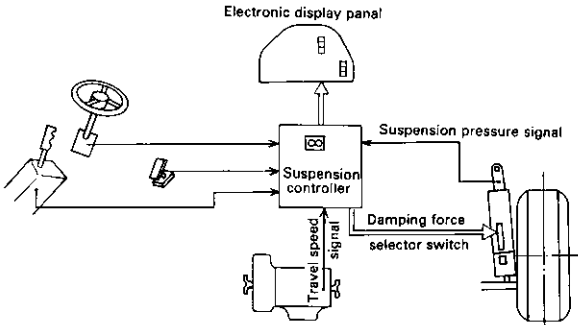
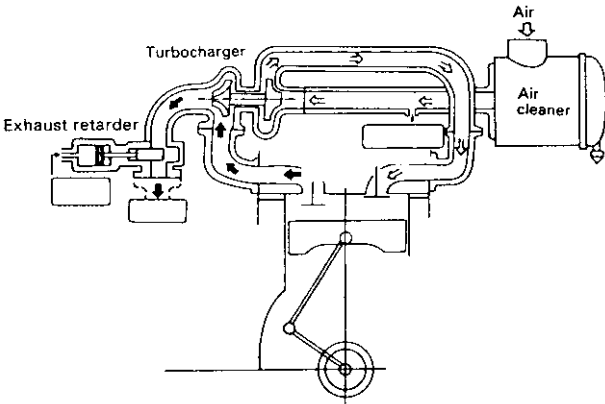
How to use this Retarding Chart:

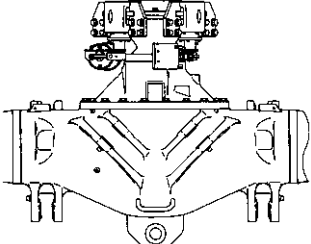
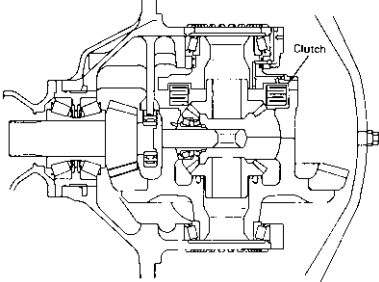
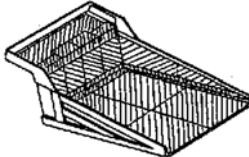
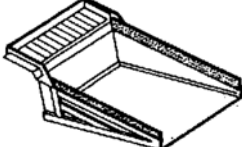
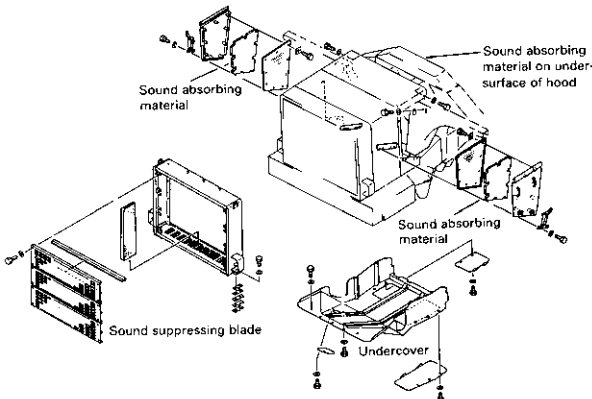
1. Calculate the Total Resistance (%).

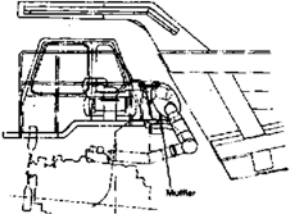
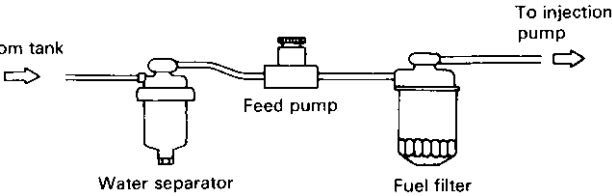
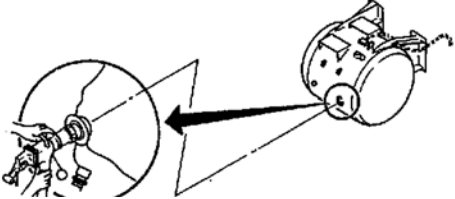
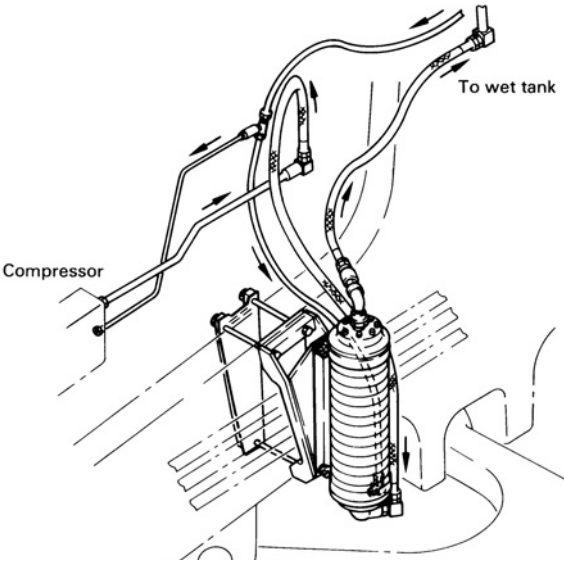
$$\text{Total Resistance (\%)} = \text{Grade Resistance (\%)} - \text{Rolling Resistance (\%)}$$
2. Calculate Retarding Force Required.

$$\text{Retarding Force (lb or kg)} = \text{Gross vehicle Weight (lb or kg)} \times \text{Total Resistance (\%)}$$
3. Locate the Point on the Retarding Force Scale (lb or kg).
4. Read horizontally to locate the two points intersecting the Retarding Curve.
5. Read vertically down to the speed scale.
 The two points represent the minimum and maximum downhill retarding speed (mph or km/h).



Description	Features
<p>PMC (power train management control)</p>	<ul style="list-style-type: none"> • Vehicle condition can be easily monitored to confirm functions or perform troubleshooting efficiently. • Stored data can be downloaded through customer provided personal computer with Komatsu PMC download software to transfer the data to customer maintenance/production database. • Memory card type Payload meter (PLM2) data can also be downloaded through the same PC connection port. (HD785)
<p>Auto Retard Speed Control (ARSC)</p> 	<ul style="list-style-type: none"> • Setting of desired downhill speed is possible • Fine adjustment of setting speed is possible within ± 5 km/h (3.1 MPH)
<p>Payload meter</p> 	<ul style="list-style-type: none"> • The payload meter measures and records the amount loaded, and also uses the external display lamps to show the present payload and to estimate the weight when the next bucket is loaded, thereby informing the loader operator. So it is possible to load the most suitable amount and to avoid overloading. • By knowing the production, it becomes possible to carry out efficiency control of combinations, and administration of economic use of the machines.
<p>Automatic three-mode suspension</p> 	<ul style="list-style-type: none"> • The suspension is controlled to give the optimum suspension characteristics for the travel conditions, so the riding comfort and travel stability are greatly improved. • The travel stability functions, such as anti-roll and anti-dive, prevent excessive stress from being brought to bear on the frame, thereby contributing to increased service life. • (The electronic display system must be installed.)
<p>Exhaust retarder</p> 	<ul style="list-style-type: none"> • Combination with the oil-cooled multiple disc retarder makes high-speed downhill travel possible, thereby improving working efficiency. • It is possible to increase the wear life of the service brake.
<p>Front brake cut off system</p>	<p>The operation of the front brake can be cancelled with a switch. This is effective in preventing slipping on job sites where the road surface is poor.</p>

Description	Features
<p>Three-way emergency brake</p> 	<p>For safety, independent circuits are used for the brakes on the front and rear wheels, but if for any reason the service brake should lose power, the double-caliper parking brake is in another circuit, so it can always be used as an emergency brake to increase the safety (A two-way emergency brake is standard on the HD785-5, and a double caliper parking brake is installed.)</p>
<p>Differential lock</p> 	<p>This device controls the operation of the rear axle differential and is effective in preventing slipping and improving drawbar pull on soft ground.</p>
<p>Body liner</p> 	<p>A liner plate for the purpose of preventing wear or deformation of the body. There are two types of liner: the steel liner and the rubber liner. Their use must be distinguished according to the purpose. (See "Body selection")</p>
<p>Body extension</p> 	<p>This extends the height of the side of the dump body. This increases the capacity of the body to ensure the rated load (For example: the capacity of the HD325-5 is 32 tons) when handling loads with a low specific gravity. It is also used to prevent spillage of load caused by adverse travel conditions (rough road surface, uphill slope, downhill slope, road with curves).</p>
<p>Platform guard (See 4A-41)</p>	<p>This guard protects the right platform from rocks falling from the dump body.</p>
<p>Transmission under guard (See 4A-41)</p>	<p>This guard protects the transmission oil pan from flying stones when traveling.</p>
<p>Propeller shaft guard (See 4A-41)</p>	<p>This guard prevents secondary damage if the propeller shaft is broken.</p>
<p>Tire guard on body (See 4A-41)</p>	<p>When large diameter tires are installed, this guard protects the tires from rocks falling from the dump body. (This is necessary when large diameter tires are installed.)</p>
<p>ROPS (See 4A-41)</p>	<p>ROPS meeting SAE J1040C</p>
<p>Noise suppression kit</p> 	<p>This consists of both side covers of the engine compartment, undercover, sound absorbing blade, sound absorbing material on under-surface of hood and sound suppressing muffler. (The muffler must be installed)</p>

Description	Features
<p>Muffler (without body heating)</p> 	<p>This can reduce the exhaust noise regardless of body raising. This muffler is available for users who do not require body heating.</p>
<p>Radiator shutter</p>	<p>The radiator shutter is installed to make the rise in water temperature faster when starting in cold areas, and to prevent overcooling. It detects the water temperature and automatically opens or closes the shutter, so there is no time taken for installation or removal as with a radiator curtain.</p>
<p>Water separator</p> 	<p>This removes water in the fuel, thereby maintaining engine reliability and durability. (Areas or environments where fuel management is insufficient.)</p>
<p>Fast-fill fuel system</p> 	<p>A quick charge coupler to match the WIGGINS quick charge system is installed to the fuel tank. (The user must provide the pump unit.)</p>
<p>Air dryer</p> 	<p>A fin-cooled type dryer is installed in the air circuit to remove the water in the circuit. This prevents problems caused by freezing of water in the air circuit and makes maintenance easier.</p>
<p>Air tank auto-drain valve</p>	<p>This automatically drains the water in the air tank, making maintenance easier. (To prevent water from freezing inside the tubes.)</p>
<p>Anti-lock Braking System (ABS)</p>	<p>This system prevents the tire lock under slippery condition while applying service brake and gives safety drive of the truck.</p>
<p>Automatic Spin Regulator (ASR)</p>	<p>Since ASR automatically prevents the rear wheels from slipping singly on soft ground, etc., proper drive force is obtained.</p>

TIRE SELECTION

Tire availability

Komatsu Dump Trucks employ the tubeless tire only.

Every tire size is classified into E3 or E4 codes.

Either E3 or E4 code had CR, GP or HR characteristics to meet specific operating conditions.

The relation between the tire characteristics and operating conditions is shown in the table.

Model	Tires size	Code	Remark
HD255-5	16.00-25-28PR	E-3, E-4	
	16.00-25-32PR	E-3, E-4	
	16.00 R25	E-3, E-4	
HD325-7 HD325-7R	18.00-33-32PR	E-3, E-4	
	18.00-33	E-3, E-4	
	18.00 R33	E-3, E-4	
HD325-6	18.00-33-32PR	E-3, E-4	
	18.00-33-28PR	E-3, E-4	
	18.00 R33	E-3, E-4	*
HD405-7 HD405-7R	18.00 R33	E-3, E-4	
HD405-6	18.00 R33	E-3, E-4	
HD465-7E0 HD465-7 HD465-7R	24.00-35-36PR	E-3, E-4	
	24.00 R35	E-3, E-4	
HD605-7E0 HD605-7R	24.00 R35	E-3, E-4	

Model	Tires size	Code	Remark
HD605-7	24.00 R35	E-3, E-4	
	24.00-35-48PR	E-3, E-4	
HD785-5	27.00-49-48PR	E-3, E-4	
	27.00 R49	E-3, E-4	
HD785-7	27.00 R49	E-3, E-4	
	31/90 R49		
HD1500-7	33.00 R51	E-4	
730E	37.00 R57	E-4	
830E	40.00 R57	E-4	
830E-AC	40.00 R57	E-4	
	46/90 R57	E-4	
930E-4	53/80 R63	E-4	
930E-4SE	53/80 R63	E-4	
960E	56/80 R63	E-4	

*: USA source

NOTE: *When installing radial tires, please use the special rim for radial tire.

Tire characteristics and operating conditions

Characteristics	Haul Distance and Payload	Surface Condition							
		Rocks Scattered on Surface			Surface Ruggedness			Sub-base	
		Thin	Normal	Thick	Good	Normal	Bad	Normal	Soft
CR	Low TKPH (TMPH)		○	○		○	○	○	○
GP	Middle TKPH (TMPH)		○			○		○	
HR, SHRR	High TKPH (TMPH)	○			○			○	

TMPH RATING

Where the ambient temperature in an operating environment is high or where a long haul or high-speed drive is required, the standard tires are sometimes unsuitable because of their small TMPH.

Under the above operating conditions, it is recommended that the optimum tires be determined after obtaining TMPH by applying the formulas stated in the section 15 and referring to the following table.

NOTE: The TMPH rating is based on U.S. ton (not on metric ton)

$$\Delta \text{TMPH} = \Delta \text{TKPH} \div 1.46$$

TIRE SELECTION GUIDE FOR RIGID DUMP TRUCKS

Model	Tire size	Manufacturer*	Code	Pattern	Type	TKPH (TMPH)	Inflation pressure kgf/cm ² (PSI)	Structure
HD255-5	16.00 – 25	BS	E-3	RL	2A	139 (95)	5.75 (82)	Bias
		BS	E-4	RLS	2A	111 (76)	5.75 (82)	Bias
	16.00 R25	BS	E-4	VRLS	3A	168 (115)	7 (100)	Radial
		BS	E-4	VRLS	1A	146 (100)	7 (100)	Radial
		BS	E-4	VRLS	2A	112 (77)	7 (100)	Radial
		BS	E-4	VZTS			7 (100)	Radial
		BS	E-4	VMTS	3A	179 (123)	7 (100)	Radial
		BS	E-4	VMTS	1A	157 (108)	7 (100)	Radial
	16.00 – 25	TOYO	E-3	G-18	SP	175 (120)	5.75 (82)	Bias
		TOYO	E-3	G-18	CR	145 (99)	5.75 (82)	Bias
		TOYO	E-4	G-18ET	SP	145 (99)	5.75 (82)	Bias
		TOYO	E-4	G-18ET	CR	124 (85)	5.75 (82)	Bias
	16.00 – 25	YOKOHAMA	E-3	Y67	HR-H, HR-V	153 (105)	5.75 (82)	Bias
		YOKOHAMA	E-3	Y67	RE-R, RE-T	139 (95)	5.75 (82)	Bias
		YOKOHAMA	E-3	Y67	CP-S, CP-C	124 (85)	5.75 (82)	Bias
		YOKOHAMA	E-4	Y523	HR-H, HR-V	131 (90)	5.75 (82)	Bias
		YOKOHAMA	E-4	Y523	RE-R, RE-T	117 (80)	5.75 (82)	Bias
		YOKOHAMA	E-4	Y523	CP-S, CP-C	102 (70)	5.75 (82)	Bias
	16.00 R25	YOKOHAMA	E-4	RB41	HR	162 (111)	7 (100)	Radial
		YOKOHAMA	E-4	RB41	SP	160 (110)	7 (100)	Radial
YOKOHAMA		E-4	RB41	CP	124 (85)	7 (100)	Radial	
16.00 R25	MICHELIN	E-3	XK	B	187 (128)	7 (100)	Radial	
	MICHELIN	E-3	XR	B	204 (140)	7 (100)	Radial	
	MICHELIN	E-4	XHD1	A4	105 (72)	7 (100)	Radial	
	MICHELIN	E-4	XHD1	A	164 (112)	7 (100)	Radial	
	MICHELIN	E-4	XHD1	B	175 (120)	7 (100)	Radial	
	MICHELIN	E-4	XHD1	B	152 (104)	7 (100)	Radial	
	MICHELIN	E-4	X-QUARRY		93 (64)	7 (100)	Radial	
16.00 – 25	GY	E-3	HRL-3A			5.75 (82)	Bias	
16.00 R25	GY	E-3	RL-3+	2S, 4S		7 (100)	Radial	
	GY	E-4	RL-4B	4, 6S		7 (100)	Radial	
	GY	E-4	RL-4J	6S		7 (100)	Radial	
HD325-6 HD405-6 HD325-7 HD325-7R HD405-7 HD405-7R	18.00 – 33	BS	E-3	RL	1A	212 (145)	5.75 (82)	Bias
		BS	E-3	RL	2A	190 (130)	5.75 (82)	Bias
		BS	E-4	ELS2	1A	182 (125)	5.75 (82)	Bias
		BS	E-4	ELS2	2A	161 (110)	5.75 (82)	Bias
	18.00 R33	BS	E-3	VEL	3A	307 (210)	7 (100)	Radial
		BS	E-3	VEL	1A	263 (180)	7 (100)	Radial
		BS	E-3	VEL	2A	213 (146)	7 (100)	Radial
		BS	E-4	VRLS	3A	246 (168)	7 (100)	Radial
		BS	E-4	VRLS	1A	211 (145)	7 (100)	Radial
		BS	E-4	VRLS	2A	170 (116)	7 (100)	Radial
		BS	E-4	VELS	2A		7 (100)	Radial
		BS	E-4	VMTP	2A		7 (100)	Radial
		BS	E-4	VZTS	2A		7 (100)	Radial
		18.00 – 33	TOYO	E-3	G-18	SP	211 (145)	5.75 (82)
	TOYO		E-3	G-18	CR	182 (125)	5.75 (82)	Bias
	TOYO		E-4	G-18ET	SP	167 (114)	5.75 (82)	Bias
	TOYO		E-4	G-18ET	CR	145 (99)	5.75 (82)	Bias
	TOYO		E-4	G-36ET	CR	145 (99)	5.75 (82)	Bias
	TOYO		E-4	G-36ET	CE	109 (75)	5.75 (82)	Bias
	18.00 R33		TOYO	E-4	T-432	HR	218 (149)	7 (100)
TOYO		E-4	T-432	SP	167 (114)	7 (100)	Radial	
TOYO		E-4	T-432	CR	124 (85)	7 (100)	Radial	
18.00 – 33	YOKOHAMA	E-3	Y67	HR-H	255 (175)	5.75 (82)	Bias	
	YOKOHAMA	E-3	Y67	HR-V	280 (192)	5.75 (82)	Bias	
	YOKOHAMA	E-3	Y67	RE-R	212 (145)	5.75 (82)	Bias	
	YOKOHAMA	E-3	Y67	RE-T	233 (160)	5.75 (82)	Bias	
	YOKOHAMA	E-3	Y67	CP-S	190 (130)	5.75 (82)	Bias	
	YOKOHAMA	E-3	Y67	CP-S	190 (130)	5.75 (82)	Bias	

* Tire maker BS: BRIDGESTONE
GY: GOODYEAR

NOTE1: (1) The TKPH in the table is the value at 38°C (100°F) an ambient temperature. (The value as of February, 2000.) When the distance for the round trip exceeds 5 km, the tire life is governed by the travel conditions, so check with the tire maker for details of the TKPH when selecting the tires.

(2) The value for TKPH is reviewed from time to time by the tire maker, so consult the maker for the latest values.

(3) For details of the TKPH value and tire specifications for conditions not given in this table, please consult the tire maker.

NOTE2: Some tires in the above table cannot be selected for some destinations.

Tire Selection

RIGID DUMP TRUCKS

Model	Tire size	Manufacturer*	Code	Pattern	Type	TKPH (TMPH)	Inflation pressure kgf/cm ² (PSI)	Structure	
HD325-6 HD405-6 HD325-7 HD325-7R HD405-7 HD405-7R	18.00 – 33	YOKOHAMA	E-4	Y523	HR-H	219 (150)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y523	RH-V	240 (164)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y523	RE-R	182 (125)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y523	RE-T	197 (135)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y523	CP-S	122 (84)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y523	CP-C	153 (105)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y523U	RE-R	168 (115)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y523U	RE-T	183 (125)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y523U	CP-S	117 (80)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y523U	CP-C	146 (100)	5.75 (82)	Bias	
	18.00 R33	MICHELIN	E-3	XK	B	279 (191)	7 (100)	Radial	
		MICHELIN	E-3	XR	B	305 (209)	7 (100)	Radial	
		MICHELIN	E-4	XDT	A4	157 (108)	7 (100)	Radial	
		MICHELIN	E-4	XDT	A	192 (132)	7 (100)	Radial	
		MICHELIN	E-4	XDT	B	262 (179)	7 (100)	Radial	
		MICHELIN	E-4	XKD1	A	157 (108)	7 (100)	Radial	
		MICHELIN	E-4	X-QUARRY		122 (84)	7 (100)	Radial	
		MICHELIN	E-4	XV	C	436 (299)	7 (100)	Radial	
	18.00 – 33	GY	E-3	HRL-3A			5.75 (82)	Bias	
		GY	E-4	HRL-4B			5.75 (82)	Bias	
	18.00 R33	GY	E-3	RL-3+	2S, 4S		7 (100)	Radial	
		GY	E-4	RL-4B	4S, 6S		7 (100)	Radial	
		GY	E-4	RL-4F	4S		7 (100)	Radial	
		GY	E-4	RL-4J	4S, 6S		7 (100)	Radial	
		GY	E-4	RL-4A	4S		7 (100)	Radial	
	HD465-7 HD605-7 HD465-7E0 HD605-7E0 HD465-7R HD605-7R	24.00 – 35	BS	E-3	RL	1A	328 (225)	5.75 (82)	Bias
			BS	E-3	RL	2A	291 (199)	5.75 (82)	Bias
			BS	E-4	RLS	3A	394 (270)	5.75 (82)	Bias
BS			E-4	RLS	1A	277 (190)	5.75 (82)	Bias	
BS			E-4	RLS	2A	234 (160)	5.75 (82)	Bias	
24.00 R35		BS	E-3	VEL	3A	524 (359)	7 (100)	Radial	
		BS	E-3	VEL	1A	448 (307)	7 (100)	Radial	
		BS	E-3	VEL	2A	362 (248)	7 (100)	Radial	
		BS	E-4	VRLS/VELS	3A	453 (310)	7 (100)	Radial	
		BS	E-4	VRLS/VELS	1A	388 (266)	7 (100)	Radial	
		BS	E-4	VRLS/VELS	2A	314 (215)	7 (100)	Radial	
		BS	E-4	VMTS	3A	489 (335)	7 (100)	Radial	
		BS	E-4	VMTS	1A	418 (286)	7 (100)	Radial	
		BS	E-4	VMTS	2A	338 (232)	7 (100)	Radial	
		BS	E-4	VMTS	1A	388 (266)	7 (100)	Radial	
24.00 – 35		TOYO	E-3	G-18	HR	371 (254)	5.75 (82)	Bias	
		TOYO	E-3	G-18	SP	327 (224)	5.75 (82)	Bias	
		TOYO	E-3	G-18	CR	284 (195)	5.75 (82)	Bias	
		TOYO	E-4	G-18ET	HR	298 (204)	5.75 (82)	Bias	
		TOYO	E-4	G-18ET	SP	269 (184)	5.75 (82)	Bias	
		TOYO	E-4	G-18ET	CR	225 (154)	5.75 (82)	Bias	
		TOYO	E-4	G-18ET	CE	211 (145)	5.75 (82)	Bias	
		24.00 R35	TOYO	E-4	T-433	HR	378 (259)	7 (100)	Radial
TOYO			E-4	T-433	SP	284 (195)	7 (100)	Radial	
TOYO			E-4	T-433	CR	211 (145)	7 (100)	Radial	
TOYO			E-4	T-452	HR	349 (239)	7 (100)	Radial	
TOYO			E-4	T-452	SP	255 (175)	7 (100)	Radial	
TOYO			E-4	T-452	CR	196 (134)	7 (100)	Radial	

* Tire maker BS: BRIDGESTONE
GY: GOODYEAR

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When the distance for the round trip exceeds 5 km, the tire life is governed by the travel conditions, so check with the tire maker for details of the TKPH when selecting the tires.

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(3) For details of the TKPH value and tire specifications for conditions not given in this table, please consult the tire maker.

NOTE2: Some tires in the above table cannot be selected for some destinations.

Tire Selection

RIGID DUMP TRUCKS

Model	Tire size	Manufacturer*	Code	Pattern	Type	TKPH (TMPH)	Inflation pressure kgf/cm ² (PSI)	Structure	
HD465-7 HD605-7 HD465-7E0 HD605-7E0 HD465-7R HD605-7R	24.00 – 35	YOKOHAMA	E-3	Y67	HR-H	379 (260)	5.75 (82)	Bias	
		YOKOHAMA	E-3	Y67	RE-R	314 (215)	5.75 (82)	Bias	
		YOKOHAMA	E-3	Y67	RE-T	343 (235)	5.75 (82)	Bias	
		YOKOHAMA	E-3	Y67	CP-C	277 (190)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y527	HR-H	321 (220)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y527	HR-V	353 (242)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y527	RE-R	263 (180)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y527	RE-T	292 (200)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y527	CP-S	175 (120)	5.75 (82)	Bias	
		YOKOHAMA	E-4	Y527	CP-C	226 (155)	5.75 (82)	Bias	
	24.00 R35	MICHELIN	E-3	XK	B	474 (325)	7 (100)	Radial	
		MICHELIN	E-3	XR	B	518 (355)	7 (100)	Radial	
		MICHELIN	E-4	XDT	A4	266 (182)	7 (100)	Radial	
		MICHELIN	E-4	XDT	A	326 (223)	7 (100)	Radial	
		MICHELIN	E-4	XDT	B	444 (304)	7 (100)	Radial	
		MICHELIN	E-4	XDT	C4	518 (355)	7 (100)	Radial	
		MICHELIN	E-4	XKD1	A4	207 (142)	7 (100)	Radial	
		MICHELIN	E-4	XKD1	A	266 (182)	7 (100)	Radial	
		MICHELIN	E-4	XKD1	B	385 (264)	7 (100)	Radial	
		MICHELIN	E-4	X-QUARRY		207 (142)	7 (100)	Radial	
		MICHELIN	E-4	X-QUARRY S		281 (192)	7 (100)	Radial	
		MICHELIN	E-4	XV	C	740 (507)	7 (100)	Radial	
		MICHELIN	E-4	X-HAUL		355 (243)	7 (100)	Radial	
		24.00 R35	GY	E-3	RL-3+	2S, 4S			
	GY		E-4	RL-4F	4S		7 (100)	Radial	
	GY		E-4	RL-4B	4S, 6S		7 (100)	Radial	
	GY		E-4	RT-4J	4S, 6S		7 (100)	Radial	
	GY		E-4	RT-4A+	2S, 4S, 4S		7 (100)	Radial	
	HD785-5 HD785-7	27.00 – 49	BS	E-3	EL	3A	701 (480)	5.75 (82)	Bias
			BS	E-4	ELS	1A	409 (280)	5.75 (82)	Bias
			BS	E-4	ELS	2A	350 (240)	5.75 (82)	Bias
		27.00 R49	BS	E-3	VRL/VEL	3A	753 (516)	7 (100)	Radial
			BS	E-3	VRL/VEL	1A	644 (441)	7 (100)	Radial
BS			E-3	VRL/VEL	2A	521 (357)	7 (100)	Radial	
BS			E-4	VRLS	3A	600 (411)	7 (100)	Radial	
BS			E-4	VRLS	1A	513 (351)	7 (100)	Radial	
BS			E-4	VRLS	2A	415 (284)	7 (100)	Radial	
BS			E-4	VMTS	3A	702 (481)	7 (100)	Radial	
BS			E-4	VMTS	1A	600 (411)	7 (100)	Radial	
BS			E-4	VMTS	2A	486 (333)	7 (100)	Radial	
BS			E-4	VMTS	3A	636 (436)	7 (100)	Radial	
BS			E-4	VMTS	1A	544 (373)	7 (100)	Radial	
27.00 – 49		TOYO	E-3	G-18	HR	611 (418)	5.75 (82)	Bias	
		TOYO	E-4	G-18ET	HR	720 (493)	5.75 (82)	Bias	
		TOYO	E-4	G-18ET	SP	592 (405)	5.75 (82)	Bias	
		TOYO	E-4	G-18ET	CR	360 (210)	5.75 (82)	Bias	
		TOYO	E-4	G-18ET	CE	291 (199)	5.75 (82)	Bias	
27.00 R49		TOYO	E-4	T-432	HR	545 (373)	7 (100)	Radial	
		TOYO	E-4	T-432	SP	422 (289)	7 (100)	Radial	
		TOYO	E-4	T-432	CR	327 (224)	7 (100)	Radial	
		TOYO	E-4	T-433/T-452	HR	516 (353)	7 (100)	Radial	
		TOYO	E-4	T-433/T-452	SP	363 (269)	7 (100)	Radial	
		TOYO	E-4	T-433/T-452	CR	305 (209)	7 (100)	Radial	
27.00 R49		MICHELIN	E-3	XK	B	698 (478)	7 (100)	Radial	
		MICHELIN	E-3	XR	B	763 (523)	7 (100)	Radial	
		MICHELIN	E-4	XDT	A4	392 (268)	7 (100)	Radial	
		MICHELIN	E-4	XDT	A	480 (329)	7 (100)	Radial	
		MICHELIN	E-4	XDT	B4	567 (388)	7 (100)	Radial	
	MICHELIN	E-4	XDT	B	654 (448)	7 (100)	Radial		
	MICHELIN	E-4	XKD1/XDR	A4	305 (209)	7 (100)	Radial		
	MICHELIN	E-4	XKD1/XDR	A	392 (268)	7 (100)	Radial		
	MICHELIN	E-4	XKD1/XDR	B4	480 (329)	7 (100)	Radial		
	MICHELIN	E-4	XKD1/XDR	B	567 (388)	7 (100)	Radial		

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GY: GOODYEAR

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Tire Selection

RIGID DUMP TRUCKS

Model	Tire size	Manufacturer*	Code	Pattern	Type	TKPH (TMPH)	Inflation pressure kgf/cm ² (PSI)	Structure
HD785-5 HD785-7	27.00 R49	GY	E-3	RL-3+	2, 4S, 6S 2, 4S, 6S 2, 4S, 6S		7 (100)	Radial
		GY	E-4	RT-4A+			7 (100)	Radial
		GY	E-4	RL-4A			7 (100)	Radial
		GY	E-4	RL-4H			7 (100)	Radial
HD1500-7	33.00 R51	BS	E-4	VMTS	3A	953 (653)	7 (100)	Radial
		BS	E-4	VMTS	1A	802 (549)	7 (100)	Radial
		BS	E-4	VMTS	2A	660 (452)	7 (100)	Radial
		BS	E-4	VMTP	1A	700 (479)	7 (100)	Radial
		BS	E-4	VMTP	2A	591 (405)	7 (100)	Radial
		BS	E-4	VRLS/VELS	3A	807 (553)	7 (100)	Radial
		BS	E-4	VRLS/VELS	1A	679 (465)	7 (100)	Radial
	33.00 R51	TOYO	E-4	T-431	HR	625 (428)	7 (100)	Radial
		TOYO	E-4	T-431	SP	582 (399)	7 (100)	Radial
		TOYO	E-4	T-431	CR	473 (324)	7 (100)	Radial
	33.00 R51	MICHELIN	E-4	XDT	A4	558 (382)	7 (100)	Radial
		MICHELIN	E-4	XDT	A	682 (467)	7 (100)	Radial
		MICHELIN	E-4	XDT	B4	806 (552)	7 (100)	Radial
MICHELIN		E-4	XDT	B	930 (637)	7 (100)	Radial	
MICHELIN		E-4	XKD1/XDR	A	496 (340)	7 (100)	Radial	
MICHELIN		E-4	XKD1/XDR	B4	620 (425)	7 (100)	Radial	
MICHELIN		E-4	XKD1/XDR	B	744 (510)	7 (100)	Radial	

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Tire Selection

RIGID DUMP TRUCKS

Model	Tire size	Manufacturer*	Code	Pattern	Type	TKPH (TMPH)	Inflation pressure kgf/cm ² (PSI)	Structure
730E	37.00 R57	BS	E-4	VRLS/VELS	3A	1003 (687)	7 (100)	Radial
		BS	E-4	VRLS/VELS	1A	845 (579)	7 (100)	Radial
		BS	E-4	VRLS/VELS	2A	694 (475)	7 (100)	Radial
		BS	E-4	VELSL	3A	1200 (822)	7 (100)	Radial
		BS	E-4	VZTS	3A	1003 (687)	7 (100)	Radial
		BS	E-4	VZTS	1A	845 (579)	7 (100)	Radial
		BS	E-4	VZTS	2A	694 (475)	7 (100)	Radial
	37.00 R57	TOYO	E-4	T-433	HR	1018 (697)	7 (100)	Radial
		TOYO	E-4	T-433	SP	844 (578)	7 (100)	Radial
		TOYO	E-4	T-433	CR	676 (463)	7 (100)	Radial
	37.00 R57	MICHELIN	E-4	XKD1/XDR	A	678 (464)	7 (100)	Radial
		MICHELIN	E-4	XKD1/XDR	B4	848 (581)	7 (100)	Radial
MICHELIN		E-4	XKD1/XDR	B	1018 (697)	7 (100)	Radial	
MICHELIN		E-4	XKD1/XDR	C4	1145 (784)	7 (100)	Radial	
830E-AC	40.00 – 57	TOYO	E-4	G-18ET	HR	948 (649)	5.75 (82)	Bias
		TOYO	E-4	G-18ET	SP	693 (475)	5.75 (82)	Bias
		TOYO	E-4	G-18ET	CR	591 (405)	5.75 (82)	Bias
	40.00 – 57	YOKOHAMA	E-4	Y523	HR-H	715 (490)	5.75 (82)	Bias
		YOKOHAMA	E-4	Y523	HR-V	788 (540)	5.75 (82)	Bias
		YOKOHAMA	E-4	Y523	RE-R	598 (410)	5.75 (82)	Bias
		YOKOHAMA	E-4	Y523	RE-T	657 (450)	5.75 (82)	Bias
		YOKOHAMA	E-4	Y523	CP-S	409 (280)	5.75 (82)	Bias
		YOKOHAMA	E-4	Y523	CP-C	511 (350)	5.75 (82)	Bias
	40.00 R57	MICHELIN	E-4	XKD1/XDR	A	768 (526)	7 (100)	Radial
		MICHELIN	E-4	XKD1/XDR	B4	960 (658)	7 (100)	Radial
		MICHELIN	E-4	XKD1/XDR	B	1152 (789)	7 (100)	Radial
MICHELIN		E-4	XKD1/XDR	C4	1296 (888)	7 (100)	Radial	
860E-1K	50/80 R57	MICHELIN	E-4	XKD1	A	922	6 (87)	Radial
		MICHELIN	E-4	XKD1	B4	1152	6 (87)	Radial
		MICHELIN	E-4	XKD1	B	1382	6 (87)	Radial
		MICHELIN	E-5	XKD1	C4	1613	6 (87)	Radial
		MICHELIN	E-4	XDR	B4	1168	6 (87)	Radial
		MICHELIN	E-4	XDR	B	1285	6 (87)	Radial
		MICHELIN	E-4	XDR	C4	1518	6 (87)	Radial
930E-4 930E-4SE	53/80 R63	BS	E-4	VRLS/VELS	3A	1408 (964)	7 (100)	Radial
		BS	E-4	VRLS/VELS	1A	1150 (788)	7 (100)	Radial
		BS	E-4	VRLS/VELS	2A	974 (667)	7 (100)	Radial
		BS	E-4	VRLSA	3A	1512 (1036)	7 (100)	Radial
		BS	E-4	VRLSA	1A	1233 (845)	7 (100)	Radial
		BS	E-4	VRLSA	2A	1045 (716)	7 (100)	Radial
960E-1	50/90 R57	BS	E-4	VELS/VRPS	E2A	884	6 (87)	Radial
		BS	E-4	VELS/VRPS	E1A	1092	6 (87)	Radial
		BS	E-4	VELS/VRPS	E3A	1278	6 (87)	Radial
	56/80 R63	MICHELIN	E-4	XDR	B4	1536	6 (87)	Radial
		MICHELIN	E-4	XDR	B	1843	6 (87)	Radial
		MICHELIN	E-4	XDR	C4	2150	6 (87)	Radial
	59/80 R63	BS	E-4	VRDP	E2A	1160	7 (102)	Radial
		BS	E-4	VRDP	E1A	1431	7 (102)	Radial
		BS	E-4	VRDP	E3A	1675	7 (102)	Radial

* Tire maker BS: BRIDGESTONE
GY: GOODYEAR

- NOTE1:** (1) The TKPH in the table is the value at 38°C (100°F) an ambient temperature. (The value as of February, 2000.) When the distance for the round trip exceeds 5 km, the tire life is governed by the travel conditions, so check with the tire maker for details of the TKPH when selecting the tires.
(2) The value for TKPH is reviewed from time to time by the tire maker, so consult the maker for the latest values.
(3) For details of the TKPH value and tire specifications for conditions not given in this table, please consult the tire maker.

NOTE2: Some tires in the above table cannot be selected for some destinations.

TIRE PATTERN

BRIDGESTONE



VELS



VRLS



VRLSA



VMTP



VZTS



VMTS



ELS2



RLS



RLS2



VEL

TOYO



G-18



G-18ET



G-36ET



T-431



T-433



T-452

4A-54

TIRE PATTERN

YOKOHAMA



Y-67



Y-523

MICHELIN



XDTA4



XDR A



X-QUARRY

GOODYEAR



HRL-3A



HRL-4B



EV-3+



GP-4C



RT-4A



GP-4B



RL-3+



RL-4J/4J II



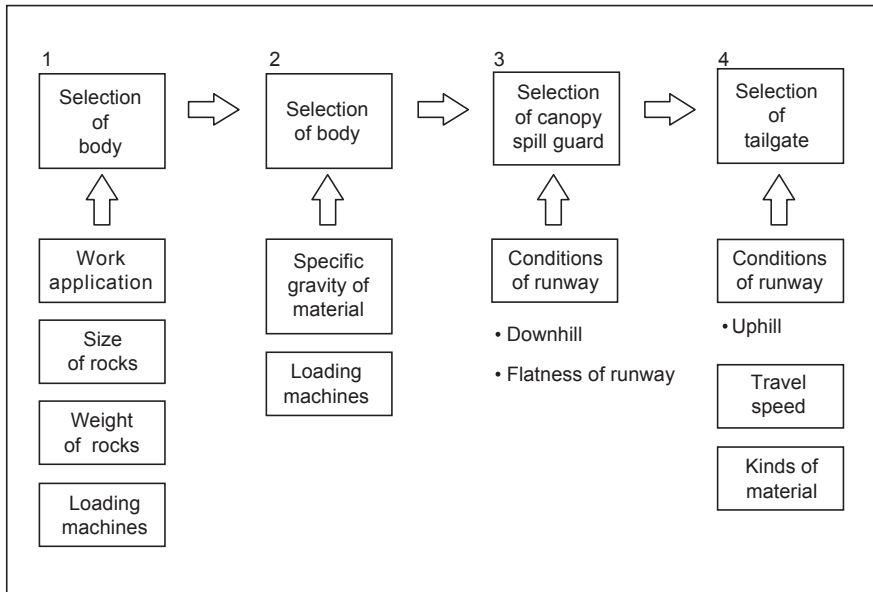
RL-4H/4H II

1. Body selection

When it comes to selecting the body, it is necessary to consider the specific work application, size of rocks, specific gravity of material and loading machines etc.

Select the optimum body according to the chart shown below.

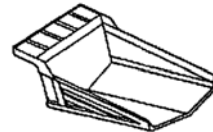
If similar dump trucks are working at a specific job sites, please refer to the body types used when making selection.



2. Features of each body

1) Liner-less body

- Liner-less body is suitable for job sites where loading of sandy or rough soil.
- Liner is not installed.



2) Rock body

- Rock body is suitable for job sites requiring the handling of rocks such as macadam, in limestone mines and for civil engineering etc.
- Total face of inner body is lined with steel liners.

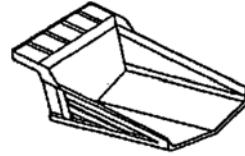


			Liner-less body	Rock body	
Body selection point	Durability of body		○	⊙	
	Operator comfort at loading	Shock	○	○	
		Noise	○	○	
Price comparison (1 : most expensive)			3	2	
Propriety by loading machines	Wheel loader	Standard for size of rocks	Below 0.5 m or 0.16 ton	●	○
			Below 1.0 m or 1.3 ton	X	●
			Below 1.5 m or 4.4 ton	X	X
	Hydraulic excavator		Below 0.5 m or 0.16 ton	●	○
			Below 1.0 m or 1.3 ton	▲	●
		Below 1.5 m or 4.4 ton	X	▲	

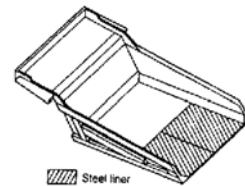
Remarks ○ : Ordinary ⊙ : Excellent
 ● : Best X : Prohibited
 ▲ : Possible when loading height is lower than body top end.

3) Dump body for quarry (standard)

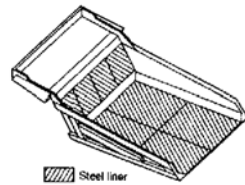
- A special large capacity dump body featuring increased strength for quarrying work.
- Newly developed super hard wear-resistant steel plate is 25% harder than conventional materials.
- Uses job sites where mainly limestone and gravel are handled, and where liners have not been installed.
- Job sites where soil contained rock is handled and little impact is made when it is loaded, and where the liner replacement interval is at least 12000 hours.
- Hauling of limestone
- Hauling of soil and sand
- Hauling of soil containing rock

**4) Special dump body with half liner for quarry (option 1)**

- Uses job sites which are basically similar to 4) above, but where the cycle time is short and unloading frequency is high.
- Job sites where liners are used and replaced at intervals of 8000 ~ 12000 hours.
- Hauling of soil and sand
- Hauling of soil containing rock
- Hauling of medium and small size rock (1 m maximum).

**5) Special dump body with full liner (except sides) for quarry use (option 2)**

- Use job site where rock is mainly handled, and a liner is used and replaced at intervals shorter than 8000 hours.
- Hauling of medium and small size rock (1 m maximum).
- Hauling of hard rock



3. Available body

Model			HD255-5	HD325-7R, HD325-7, HD325-6		HD405-7, HD405-6 HD405-7R	
Body type			Liner less body (STD)	Liner less body (STD)	Rock body (OP)	Liner less body (STD)	Rock body (OP)
Liner	Steel liner	Rock type	—	○	●	—	—
		Liner (case1)	—	—	—	—	○
		Liner (case2)	—	—	—	—	○
Body extension	200mm (7.9 in)		—	○	○	X	X
	250mm (9.8 in)		—	—	—	X	X
	300mm (11.8 in)		—	—	—	X	X
Canopy spill guard	150mm (5.9 in)		○	○	○	○	○
	200mm (7.9 in)		—	—	—	—	—
	250mm (9.8 in)		○	○	○	○	○
	300mm (11.8 in)		—	—	—	—	—

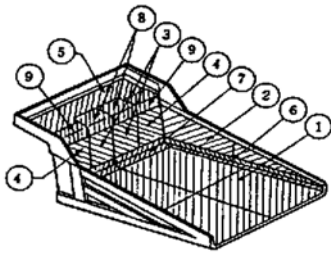
Model			HD465-7E0, HD465-7 HD465-7R		HD605-7E0, HD605-7 HD605-7R	
Body type			Liner less body (STD)	Rock body (OP)	Liner less body (STD)	Rock body (OP)
Liner	Steel liner	Rock type	○	●	—	—
		Liner (case1)	—	—	—	○
		Liner (case2)	—	—	—	○
Body extension	200mm (7.9 in)		○	○	X	X
	250mm (9.8 in)		—	—	X	X
	300mm (11.8 in)		—	—	X	X
Canopy spill guard	150mm (5.9 in)		●	●	●	●
	200mm (7.9 in)		—	—	—	—
	250mm (9.8 in)		—	—	—	—
	300mm (11.8 in)		○	○	○	○

Model			HD785-7 HD785-5	
Body type			Liner less body (STD)	Liner body (OP)
Liner	Steel liner	Rock type	○	●
		4-face liner	—	—
		Half liner	—	—
Body extension	200mm (7.9 in)		○	○
	250mm (9.8 in)		—	—
	300mm (11.8 in)		—	—
Canopy spill guard	150mm (5.9 in)		—	—
	200mm (7.9 in)		●	●
	250mm (9.8 in)		—	—
	300mm (11.8 in)		○	○

Remarks ● :Standard equipment for applicable body
 ○ :Optionally available
 x :Installation prohibited
 — :Not available
 * :Mini tailgate

4. Liner thickness of rock body and weight

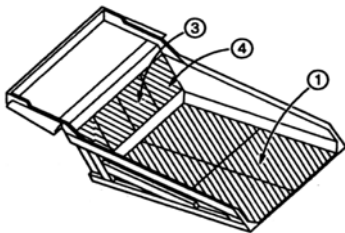
HD325-7R/HD325-7/HD325-6



 : Steel liner

No.	Part	Plate thickness mm (in)
1	Bottom plate	19 (0.75)
2	Side plate	12 (0.47)
3	Front plate (center)	16 (0.63)
4	Front plate (side)	12 (0.47)
5	Canopy top plate	9 (0.35)
6	Corner (bottom-side)	12 (0.47)
7	Corner (bottom-front)	12 (0.47)
8	Canopy corner (center)	16 (0.63)
9	Canopy corner (side)	12 (0.47)
Liner weight kg (lb)		4235 (9,340)

HD405-7R/HD405-7/HD405-6 Liner (Option 2)

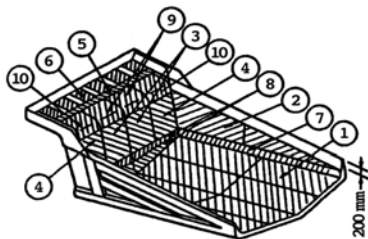


 : Steel liner

No.	Part	Plate thickness mm (in)
1	Bottom plate	14 (0.55)
2	Side plate	—
3	Front plate (center)	14 (0.55)
4	Front plate (side)	14 (0.55)
5	Canopy top plate	—
6	Corner (bottom-side)	—
7	Corner (bottom-front)	—
8	Canopy corner (center)	—
9	Canopy corner (side)	—
Liner weight kg (lb)		2070 (4,560)

HD465-7R/HD465-7E0/HD465-7

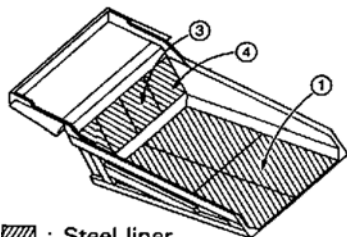
Rock body with 200 mm (7.9 in) body extension



 : Steel liner

No.	Part	Plate thickness mm (in)
1	Bottom plate	19 (0.75)
2	Side plate	12 (0.47)
3	Front plate (center)	16 (0.63)
4	Front plate (side)	12 (0.47)
5	Canopy top plate	9 (0.35)
6	Canopy top plate (front)	6 (0.24)
7	Corner (bottom-side)	12 (0.47)
8	Corner (bottom-front)	12 (0.47)
9	Canopy corner (center)	16 (0.63)
10	Canopy corner (side)	12 (0.47)
Liner weight kg (lb)		5950 (13,120)

HD605-7R/HD605-7E0/HD605-7 Liner (Option 2)

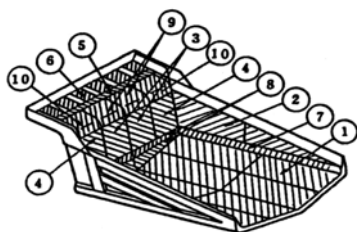


 : Steel liner

No.	Part	Plate thickness mm (in)
1	Bottom plate	14 (0.55)
2	Side plate	—
3	Front plate (center)	14 (0.55)
4	Front plate (side)	14 (0.55)
5	Canopy top plate	—
6	Corner (bottom-side)	—
7	Corner (bottom-front)	—
8	Canopy corner (center)	—
9	Canopy corner (side)	—
Liner weight kg (lb)		2610 (5,750)

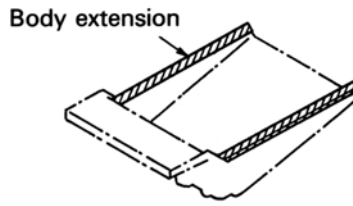
HD785-5/HD785-7

Rock body



 : Steel liner

No.	Part	Plate thickness mm (in)
1	Bottom plate	19 (0.75)
2	Side plate	12 (0.47)
3	Front plate (center)	16 (0.63)
4	Front plate (side)	12 (0.47)
5	Canopy top plate	9 (0.35)
6	Canopy top plate (front)	6 (0.24)
7	Corner (bottom-side)	12 (0.47)
8	Corner (bottom-front)	12 (0.47)
9	Canopy corner (center)	16 (0.63)
10	Canopy corner (side)	12 (0.47)
Liner weight kg (lb)		7895 (17,405)



5. Body extension selection

1) Body extension and specifications

Extension	Item	HD255-5	HD325-7R HD325-7 HD325-6	HD405-7R HD405-7 HD405-6	HD465-7R HD465-7E0 HD465-7	HD605-7R HD605-7E0 HD605-7
Without body extension	Body capacity m ³ Struck/heaped (yd ³)	13.2/17.7 (17.3/23.2)	18.0/24.0 (23.5/31.4)	20.0/27.3 (26.2/35.7)	25.0/34.2 (32.7/44.7)	29.0/40.0 (37.9/52.3)
	Loading height mm (ft.in)	2975 (9'9")	3200 (10'6")	3430 (11'3")	3600 (11'10")	3860 (12'8")
200 mm (7.9 in)	Body capacity m ³ Struck/heaped (yd ³)	—	20.0/27.0 (26.2/35.3)	—	*29.0/37.5 (37.9/49.1)	—
	Loading height mm (ft.in)	—	3400 (11'2")	—	3800 (12'6")	—
250 mm (9.8 in)	Body capacity m ³ Struck/heaped (yd ³)	—	—	—	—	—
	Loading height mm (ft.in)	—	—	—	—	—
300 mm (11.8 in)	Body capacity m ³ Struck/heaped (yd ³)	—	—	—	—	—
	Loading height mm (ft.in)	—	—	—	—	—
Installed tire size		16.00-25	18.00-33	18.00-R33	24.00-35	24.00-R35

Extension	Item	HD785-5 HD785-7				
Without body extension	Body capacity m ³ Struck/heaped (yd ³)	40.0/60.0 (52.3/78.5)				
	Loading height mm (ft.in)	4285 (14'1")				
200 mm (7.9 in)	Body capacity m ³ Struck/heaped (yd ³)	46.0/66.0 (60.2/86.3)				
	Loading height mm (ft.in)	4485 (14'9")				
250 mm (9.8 in)	Body capacity m ³ Struck/heaped (yd ³)	—				
	Loading height mm (ft.in)	—				
300 mm (11.8 in)	Body capacity m ³ Struck/heaped (yd ³)	—				
	Loading height mm (ft.in)	—				
Installed tire size		27.00-R49				

Remarks *:Standard equipment for HD465-7 rock body

2) Body extension selection table

HD325-6, HD325-7, HD325-7R

		Body capacity m ³ (ys ³)	Specific gravity (Loose condition)																		
			1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	US ton/m ³								
			0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	ton/m ³							
Standard body		24.0 (31.4)																			
Extension	200 mm (7.9 in)	27.0 (35.3)																			

HD465-7, HD465-7E0, HD465-7R

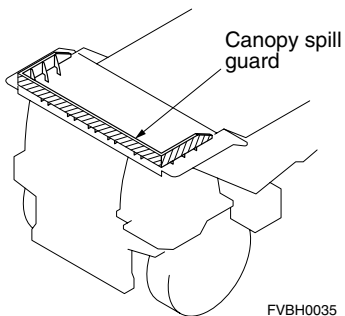
		Body capacity m ³ (ys ³)	Specific gravity (Loose condition)																		
			1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	US ton/m ³								
			0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	ton/m ³							
Standard body		34.2 (44.7)																			
Extension	200 mm (7.9 in)	37.5 (49.1)																			

HD785-5, HD785-7

		Body capacity m ³ (ys ³)	Specific gravity (Loose condition)																		
			1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	US ton/m ³								
			0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	ton/m ³							
Standard body		60 (78.5)																			
Extension	200 mm (7.9 in)	66 (86.3)																			

FVBH0269

6. Canopy spill guard selection



Canopy spill guards and specifications

Hight of additional spill guard to STD	Model		HD255-5	HD325-7R HD325-7 HD325-6	HD405-7R HD405-7 HD405-6	HD465-7R HD465-7E0 HD405-7	HD605-7R HD605-7E0 HD605-7	HD785-7 HD785-5
	Item							
	Standard spill guard height	mm (ft.in)	30 (1.1")	40 (1.6")	40 (1.6")	180 (7.1")	180 (7.1")	200 (7.9")
	Mounting method	—	Welded	Welded	Welded	Welded	Welded	Welded
	Over all height	mm (ft.in)	3625 (11'11")	4000 (13'2")	4000 (13'2")	4400 (14'5")	4400 (14'5")	5050 (16'7")
150 mm (5.9")	Mounting method	—	Bolt-on	Bolt-on	Bolt-on	—	—	—
	Over all height	mm (ft.in)	3775 (12'5")	4150 (13'7")	4150 (13'7")	—	—	—
250 mm (9.8")	Mounting method	—	Bolt-on	Bolt-on	Bolt-on	—	—	—
	Over all height	mm (ft.in)	3875 (12'7")	4250 (13'11")	4250 (13'11")	—	—	—
300 mm (11.8")	Mounting method	—	—	—	—	Welded	Welded	Welded
	Over all height	mm (ft.in)	—	—	—	4300 (14'1")	4300 (14'1")	5350 (17'7")

TRAVEL TIME (One way)

UNIT: MIN.

DISTANCE ONE WAY		AVERAGE TRAVEL SPEED KM/HR (MPH)											
		5	10	15	20	25	30	35	40	45	50	55	60
METERS	FEET	(3.1)	(6.2)	(9.3)	(12.4)	(15.5)	(18.6)	(21.7)	(24.9)	(28.0)	(31.1)	(34.2)	(37.3)
50	160	0.60	0.30	0.20	0.15	0.12	0.10	0.09	0.88	0.07	0.06	0.05	0.05
100	330	1.20	0.60	0.40	0.30	0.24	0.20	0.17	0.15	0.13	0.12	0.11	0.10
200	660	2.40	1.20	0.80	0.60	0.48	0.40	0.34	0.30	0.27	0.24	0.22	0.20
300	980	3.60	1.80	1.20	0.90	0.72	0.60	0.51	0.45	0.40	0.36	0.33	0.30
500	1640	6.00	3.00	2.00	1.50	1.20	1.00	0.86	0.75	0.67	0.60	0.55	0.50
1000	3280	12.00	6.00	4.00	3.00	2.40	2.00	1.71	1.50	1.33	1.20	1.09	1.00
1500	4920	18.00	9.00	6.00	4.50	3.60	3.00	2.57	2.25	2.00	1.80	1.64	1.50
2000	6560	24.00	12.00	8.00	6.00	4.80	4.00	3.43	3.00	2.67	2.40	2.18	2.00
3000	9840	36.00	18.00	12.00	9.00	7.20	6.00	5.14	4.50	4.00	3.60	3.27	3.00
5000	16410	60.00	30.00	20.00	15.00	12.00	10.00	8.57	7.50	6.67	6.00	5.45	5.00

Cycle time = Loading time + Hauling time + Dumping time + Return time + Spot & delay time

- Determine hauling and return time from the above table respectively.
- Loading time = (Loader cycle time) × (No. of cycles to fill dump truck)
- Average fixed time (dumping, spot & delay): 1.25 ~ 1.65 min.

Estimated Production (Metric ton per hour)

ESTIMATED CYCLE TIME (MIN.)	PAYLOAD (METRIC TON)									
	18	20	32	46	68	78	120	160	180	
3	360	400	640	920	1360	1560	2400	3200	3600	
6	180	200	320	460	680	780	1200	1600	1800	
9	120	133	213	307	453	520	800	1067	1200	
12	90	100	160	230	340	390	600	800	900	
15	72	80	128	184	272	312	480	640	720	
18	60	67	107	153	227	260	400	533	600	
21	51	57	91	131	194	223	343	457	514	
24	45	50	80	115	170	195	300	400	450	
27	40	44	71	102	151	173	267	356	400	
30	36	40	64	92	136	156	240	320	360	
35	31	34	55	79	117	134	206	274	309	
40	27	30	48	69	102	117	180	240	270	
45	24	27	43	61	91	104	160	213	240	
50	22	24	38	55	82	94	144	192	196	
55	20	22	35	50	74	85	131	175	196	
60	18	20	32	46	68	78	120	160	180	

* Actual production =

(Estimated production) × (Job efficiency)

Job efficiency (E)

Operation conditions	E
Good	0.83
Average	0.80
Rather poor	0.75
Poor	0.70

Estimated Production (U.S ton per hour)

ESTIMATED CYCLE TIME (MIN.)	PAYLOAD (U.S. TON)									
	20	22	35	51	75	86	132	176	198	
3	400	440	700	1020	1500	1720	2640	3520	3960	
6	200	220	350	510	750	860	1320	1760	1980	
9	133	147	233	340	500	573	880	1173	1320	
12	100	110	175	255	375	430	660	880	990	
15	80	88	140	204	300	344	528	704	792	
18	67	73	117	170	250	287	440	587	660	
21	57	63	100	146	214	246	377	503	566	
24	50	55	88	128	188	215	330	440	495	
27	44	49	78	113	167	191	293	391	440	
30	40	44	70	102	150	172	264	352	396	
35	34	38	60	87	129	147	226	302	339	
40	30	33	53	77	113	129	198	264	297	
45	27	29	47	68	100	115	176	235	264	
50	24	26	42	61	90	103	158	211	238	
55	22	24	38	56	82	94	144	192	216	
60	20	22	35	51	75	86	132	176	198	

SECTION **4B**

ARTICULATED DUMP TRUCKS

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Performance Curves:

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HM300-2, HM300-2R 4B-11

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HM350-1 4B-14

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Body Selection 4B-24

Ecology Features

ecot3 (EPA Tier 3, EU Stage 3A certified engine)

Komatsu develops and produces all major components, such as engines, electronics and hydraulic components in house.

With this “Komatsu Technology”, and adding customer feedback, Komatsu is achieving great advancements in technology.

To achieve high levels of productivity and ecology, Komatsu developed the main components with an advanced control system.

The result is a new generation of high performance and environment friendly machines.

(HM250-2, HM300-2, HM350-2 and HM400-2)

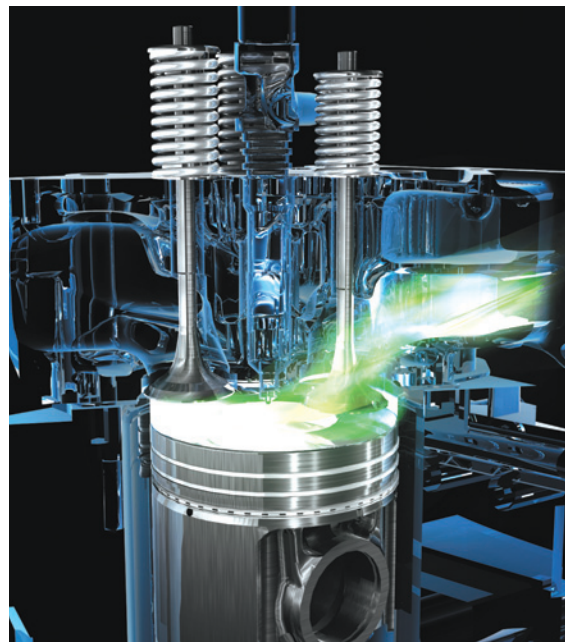


Fuel efficient electronic controlled engine

The engine is EPA Tier 3 and EU Stage 3A emission regulation certified. The engine is turbocharged and features Common Rail Injection System (CRI) and air-to-air aftercooling to maximize power, fuel efficiency and emission compliance.

To minimize noise and vibration, the engine is mounted to the main frame with rubber cushions.

(HM250-2, HM300-2, HM350-2 and HM400-2)



■ **Comfortable operator environment**

● **Wide, Spacious Cab**

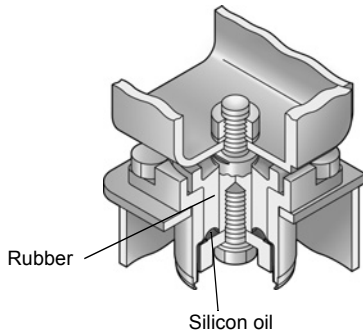
The wide cab provides a comfortable space for the operator and a full size buddy seat. Large, electrically operated windows and the operator's seat positioned to the left side ensure superior visibility.

● **Ergonomically Designed Cab**

The ergonomically designed operator's compartment makes it very easy and comfortable for the operator to use all the controls.

● **Viscous Cab Mounts**

Viscous mounts reduce the noise transmitted to the cab and achieve a quiet noise level.



■ **Easy maintenance**

● **Tiltable cab**

The cab can be tilted rearward to provide easy maintenance/service for the engine and transmission.



● **Extended Service Intervals**

In order to minimize operating costs service intervals have been extended.

- Engine oil: 500 hours
- Transmission oil: 1000 hours
- Engine & transmission filters: 500 hours

● **Hydropneumatic Suspension for All Terrain**

The hydropneumatic suspension assures a comfortable ride even over rough terrain and ensures maximum productivity and operator confidence.

● **Air Suspension Seat**

The air suspension fabric covered seat which is adjustable to the operator's weight is provided as standard.

● **Electric Body Dump Control Lever**

The extra light lever makes dumping easier than ever.

● **Supplementary Steering and Secondary Brakes**

Supplementary steering and secondary brakes are standard features.

● **Easy-to-See Instrument Panel**

The instrument panel makes it easy to monitor critical machine functions. In addition a caution light warns the operator of any problems that may occur. Problems are recorded in the monitor and indicated as service codes.

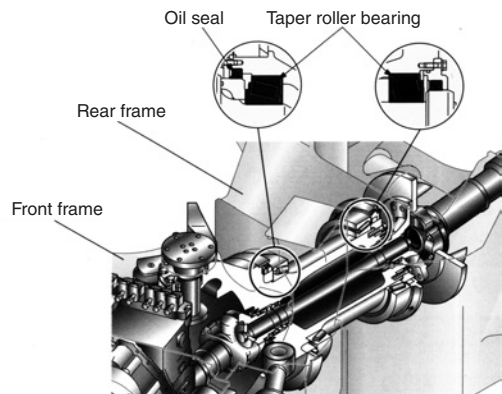
This makes the machine very friendly and easy to service.

● **Steering Wheel and Pedals**

Low effort pedals reduce driver fatigue when working continuously for long periods. The tiltable, telescoping steering column enables operators to maintain the optimum driving position at all times.

● **Fewer Grease Points**

We have minimized the number of grease points by using maintenance-free rubber bushings and a lubrication-free oscillating hitch.



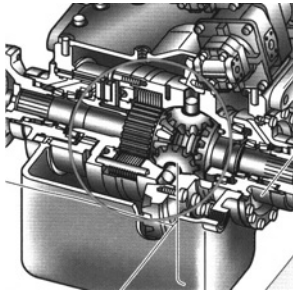
■ **High productivity**

• **High performance SAA6D125E-3 and SAA6D140E-3 Komatsu engines**

- Those engine delivers faster acceleration and higher travel speeds with the highest horsepower per ton in its class.
- The engines meets the USA EPA Tier 2 emission regulations.
- High torque at low speed, impressive acceleration and low fuel consumption ensure maximum productivity. (HM300-1, HM350-1 and HM400-1)

• **Interaxle & Differential Locking Systems**

The full-time six-wheel drive system reduces slippage. A wet multiple-disc interaxle clutch also locks the three axles in unison for greater traction. The interaxle lock and differential locks can be switched on and off while the truck is traveling, thereby boosting productivity.

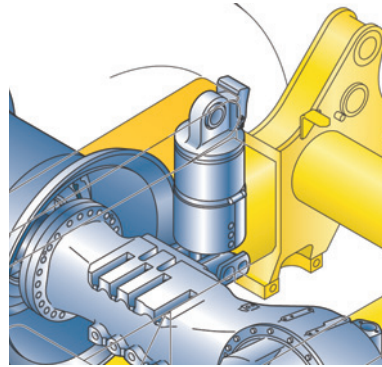


• **Komatsu Designed Electronically Controlled Transmission**

Komatsu designed Electronically Controlled transmission called K-ATOMiCS has been successfully employed in Komatsu's rigid dump trucks. The electronic clutch modulation system ensures proper clutch pressure when the clutch is engaged. the total control system controls both the engine and transmission by monitoring the vehicle conditions. This high technology system assures smooth shifts without shock.

• **Hydropneumatic Suspension**

The hydropneumatic suspension has been proven on Komatsu's rigid dump trucks. The front axle suspension employs "De Dion" type design, allowing the machine to ride more smoothly over bumps. The rear-axles are mounted on a dynamic equalizer structure equipped with hydropneumatic suspension.



• **Large Capacity Body and Box Section Frame Structure**

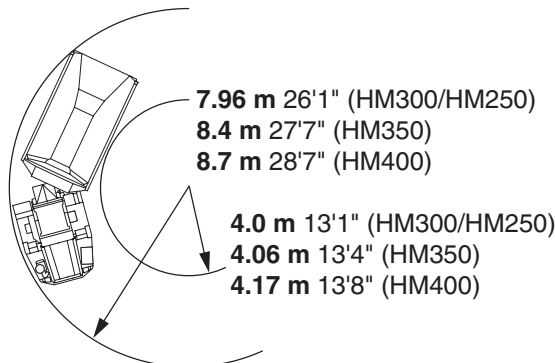
The body is built of thick wear-resistant steel with a Brinell hardness of 400, and the body shape provides excellent load stability.

• **Articulated Steering**

Fully hydraulic articulated steering offers low-effort operating performance and maneuverability. Small minimum turning radius provides the freedom to move about in confined areas.

• **Fully Hydraulically Controlled Wet Multiple-Disk Brakes and Retarder**

Wet multiple-disk brakes have been proven on Komatsu dump trucks and wheel loaders. They ensure highly reliable and stable brake performance. The large-capacity wet-multiple disk brakes also function as a highly responsive retarder which gives the operator great confidence while traveling downhill.



Specifications

ARTICULATED DUMP TRUCKS

Item	Model	●HM250-2	●HM300-2	HM300-2R
WEIGHT:	kg (lb)			
Empty vehicle weight*		23600 (52,030)	24040 (53,000)	24040 (53,000)
Distribution (front)		13595 (29,970)	13414 (29,570)	13414 (29,570)
(center)		5380 (11,860)	5673 (12,510)	5673 (12,510)
(rear)		4625 (10,200)	4953 (10,920)	4953 (10,920)
Gross vehicle weight		47680 (105,120)	51420 (113,360)	51420 (113,360)
Distribution (front)		15400 (33,950)	15580 (34,350)	15580 (34,350)
(center)		16880 (37,210)	18150 (40,010)	18150 (40,010)
(rear)		15400 (33,950)	17690 (39,000)	17690 (39,000)
Gross horsepower	kW (HP)/RPM	232 (311)/2000	254 (340)/2000	254 (340)/2000
Net horsepower	kW (HP)/RPM	222 (298)/2000	246 (329)/2000	246 (329)/2000
HAULING CAPACITY:				
Maximum payload	m. ton (U.S. ton)	24.0 (26.5)	27.3 (30.1)	27.3 (30.1)
Heaped capacity (2:1)	m ³ (yd ³)	14.7 (19.2)	16.6 (21.7)	16.6 (21.7)
PERFORMANCE:				
Maximum speed	km/h (MPH)	57.6 (35.8)	58.6 (36.4)	58.6 (36.4)
Turning radius	m (ft.in)	7.96 (26'1")	7.96 (26'1")	7.96 (26'1")
ENGINE:				
Model		KOMATSU	KOMATSU	KOMATSU
No. of cylinders-		SAA6D125E-5	SAA6D125E-5	SAA6D125E-5
bore × stroke	mm (in)	6-125 × 120	6-125 × 150	6-125 × 150
Displacement	ltr. (in ³)	(4.92 × 5.91)	(4.92 × 5.91)	(4.92 × 5.91)
		11.04 (674)	11.04 (674)	11.04 (674)
DIMENSION:		See DIMENSIONS		
CAPACITY: Fuel tank	ltr. (U.S. Gal)	384 (101.5)	384 (101.5)	384 (101.5)

* Weight includes lubricants, coolant, full fuel tank and standard body.

Item	Model	HM300-1	●HM350-2	HM350-2R
WEIGHT:	kg (lb)			
Empty vehicle weight*		22500 (49,600)	31060 (68,470)	31060 (68,470)
Distribution (front)		12770 (28,150)	17828 (39,300)	17828 (39,300)
(center)		5000 (11,020)	6709 (14,790)	6709 (14,790)
(rear)		4730 (10,430)	6523 (14,380)	6523 (14,380)
Gross vehicle weight		49875 (109,950)	63440 (139,860)	63440 (139,860)
Distribution (front)		14860 (10710)	20174 (44,480)	20174 (44,480)
(center)		17805 (39,250)	21696 (47,830)	21696 (47,830)
(rear)		17210 (37,940)	21570 (47,550)	21570 (47,550)
Gross horsepower	kW (HP)/RPM	250 (335)/2000	304 (408)/2000	304 (408)/2000
Net horsepower	kW (HP)/RPM	242 (324)/2000	294 (394)/2000	294 (394)/2000
HAULING CAPACITY:				
Maximum payload	m. ton (U.S. ton)	27.3 (30.1)	32.3 (35.6)	32.3 (35.6)
Heaped capacity (2:1)	m ³ (yd ³)	16.6 (21.7)	19.8 (25.9)	19.8 (25.9)
PERFORMANCE:				
Maximum speed	km/h (MPH)	59.0 (36.7)	57.1 (35.5)	57.1 (35.5)
Turning radius	m (ft.in)	7.96 (26'1")	8.6 (28'3")	8.6 (28'3")
ENGINE:				
Model		KOMATSU	KOMATSU	KOMATSU
No. of cylinders-		SAA6D125E-3	SAA6D140E-5	SAA6D140E-5
bore × stroke	mm (in)	6-125 × 150	6-140 × 165	6-140 × 165
Displacement	ltr. (in ³)	(4.92 × 5.91)	(5.51 × 6.50)	(5.51 × 6.50)
		11.04 (674)	15.24 (930)	15.24 (930)
DIMENSION:		See DIMENSIONS		
CAPACITY: Fuel tank	ltr. (U.S. Gal)	382 (100.9)	493 (130.3)	493 (130.3)

* Weight includes lubricants, coolant, full fuel tank and standard body.

- Tier 3 and Stage 3A model

Specifications

ARTICULATED DUMP TRUCKS

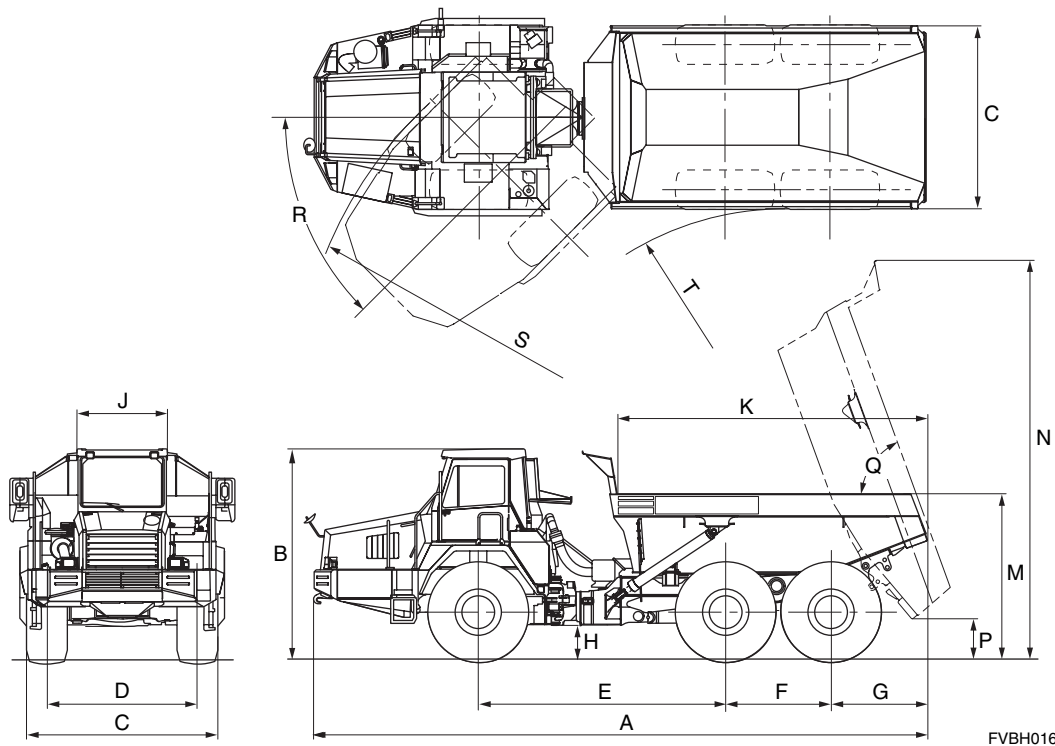
Item	Model	HM350-1	•HM400-2	HM400-2R
WEIGHT:	kg (lb)			
Empty vehicle weight*		28550 (62,940)	32460 (71,560)	32460 (71,560)
Distribution (front)		15850 (34,920)	17885 (39,430)	17885 (39,430)
(center)		6350 (14,000)	7400 (16,310)	7400 (16,310)
(rear)		6350 (14,000)	7175 (15,820)	7175 (15,820)
Gross vehicle weight		60925 (134,320)	69040 (152,210)	69040 (152,210)
Distribution (front)		18545 (40,880)	20022 (44,140)	20022 (44,140)
(center)		21190 (46,720)	24647 (54,340)	24647 (54,340)
(rear)		21190 (46,720)	24371 (53,730)	24371 (53,730)
Gross horsepower	kW (HP)/RPM	298 (399)/2000	338 (453)/2000	338 (453)/2000
Net horsepower	kW (HP)/RPM	290 (389)/2000	327 (438)/2000	327 (438)/2000
HAULING CAPACITY:				
Maximum payload	m. ton (U.S. ton)	32.3 (35.6)	36.5 (40.0)	36.5 (40.0)
Heaped capacity (2:1)	m ³ (yd ³)	19.8 (25.9)	22.3 (29.2)	22.3 (29.2)
PERFORMANCE:				
Maximum speed	km/h (MPH)	57.0 (35.4)	58.5 (36.4)	58.5 (36.4)
Turning radius	m (ft.in)	8.4 (27'7")	8.7 (28'7")	8.7 (28'7")
ENGINE:				
Model		KOMATSU	KOMATSU	KOMATSU
No. of cylinders-		SAA6D140E-3	SAA6D140E-5	SAA6D140E-5
bore × stroke		6-140 × 165	6-140 × 165	6-140 × 165
Displacement	mm (in) ltr. (in ³)	(5.51 × 6.50) 15.24 (930)	(5.51 × 6.50) 15.24 (930)	(5.51 × 6.50) 15.24 (930)
DIMENSION:		See DIMENSIONS		
CAPACITY: Fuel tank	ltr. (U.S. Gal)	495 (130.8)	493 (130.3)	493 (130.3)

Item	Model	HM400-1		
WEIGHT:	kg (lb)			
Empty vehicle weight*		30300 (66,800)		
Distribution (front)		16790 (37020)		
(center)		6755 (14,890)		
(rear)		6755 (14,890)		
Gross vehicle weight		66875 (147,430)		
Distribution (front)		19055 (42,010)		
(center)		23910 (51,120)		
(rear)		23910 (51,120)		
Gross horsepower	kW (HP)/RPM	331 (444)/2000		
Net horsepower	kW (HP)/RPM	321 (430)/2000		
HAULING CAPACITY:				
Maximum payload	m. ton (U.S. ton)	36.5 (40)		
Heaped capacity (2:1)	m ³ (yd ³)	22.3 (29.2)		
PERFORMANCE:				
Maximum speed	km/h (MPH)	58.6 (36.4)		
Turning radius	m (ft.in)	8.7 (28'7")		
ENGINE:				
Model		KOMATSU		
No. of cylinders-		SAA6D140E-3		
bore × stroke		6-140 × 165		
Displacement	mm (in) ltr. (in ³)	(5.51 × 6.50) 15.24 (930)		
DIMENSION:		See DIMENSIONS		
CAPACITY: Fuel tank	ltr. (U.S. Gal)	495 (130.8)		

- * Weight includes lubricants, coolant, full fuel tank and standard body.
- Tier 3 and Stage 3A model

Dimensions

ARTICULATED DUMP TRUCKS



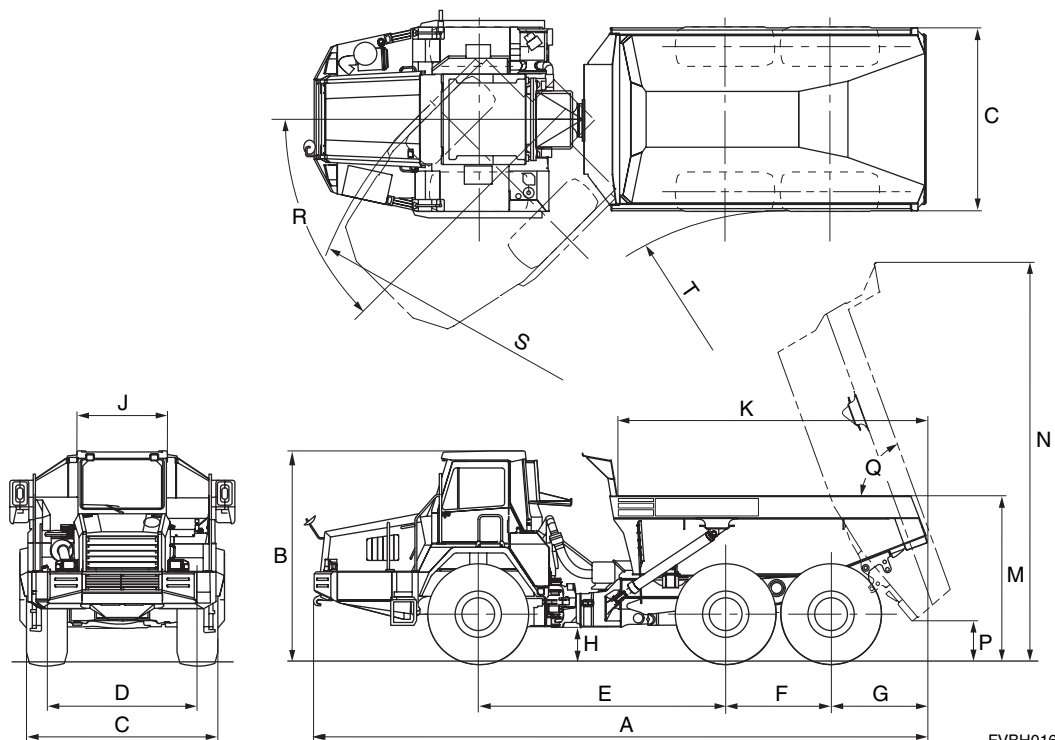
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Unit: mm (ft.in)

	HM250-2	HM300-2 HM300-2R	HM300-1	HM350-2 HM350-2R	HM350-1	HM400-2 HM400-2R
Tires	23.5 R25	23.5-R25	23.5 R25	26.5R25	26.5 R25	29.5-R25
A	10060 (33'0")	10440 (34'3")	10095 (33'1")	11145 (36'7")	10730 (35'2")	11310 (37'1")
B	3500 (11'6")	3520 (11'7")	3500 (11'6")	3700 (12'1")	3595 (11'10")	3720 (12'2")
C	2900 (9'6")	2900 (9'6")	2900 (9'6")	3250 (10'8")	3250 (10'8")	3450 (11'4")
D	2280 (7'6")	2280 (7'6")	2280 (7'6")	2590 (8'6")	2590 (8'6")	2690 (8'10")
E	4100 (13'6")	4100 (13'5")	4100 (13'5")	4350 (14'3")	4350 (14'3")	4350 (14'3")
F	1710 (5'7")	1710 (5'7")	1710 (5'7")	1850 (6'1")	1850 (6'1")	1970 (6'6")
G	1525 (5'0")	1695 (5'7")	1695 (5'7")	1775 (5'10")	1645 (5'5")	1820 (6'0")
H	500 (1'8")	510 (1'8")	510 (1'8")	585 (1'11")	585 (1'11")	605 (2'0")
J	1600 (5'3")	1600 (5'3")	1600 (5'3")	1600 (5'3")	1600 (5'3")	1600 (5'3")
K	4975 (16'4")	5240 (17'2")	5240 (17'2")	5495 (18'0")	5510 (18'1")	5630 (18'6")
M	2670 (8'9")	2790 (9'2")	2790 (9'2")	2975 (9'9")	2840 (9'4")	2970 (9'9")
N	6185 (20'4")	6340 (21'1")	6445 (21'2")	7035 (23'1")	7035 (23'1")	7130 (23'5")
P	640 (2'1")	600 (2'0")	605 (2'0")	720 (2'4")	720 (2'4")	720 (2'4")
Q (deg.)	70°	70°	70°	70°	70°	70°
R (deg.)	45°	45°	45°	45°	45°	45°
S	7960 (26'1")	7960 (26'1")	7960 (26'1")	8600 (28'3")	8400 (27'7")	8700 (28'7")
T	4010 (13'2")	4010 (13'2")	4010 (13'2")	4200 (13'9")	4060 (13'4")	4170 (13'8")

Dimensions

ARTICULATED DUMP TRUCKS



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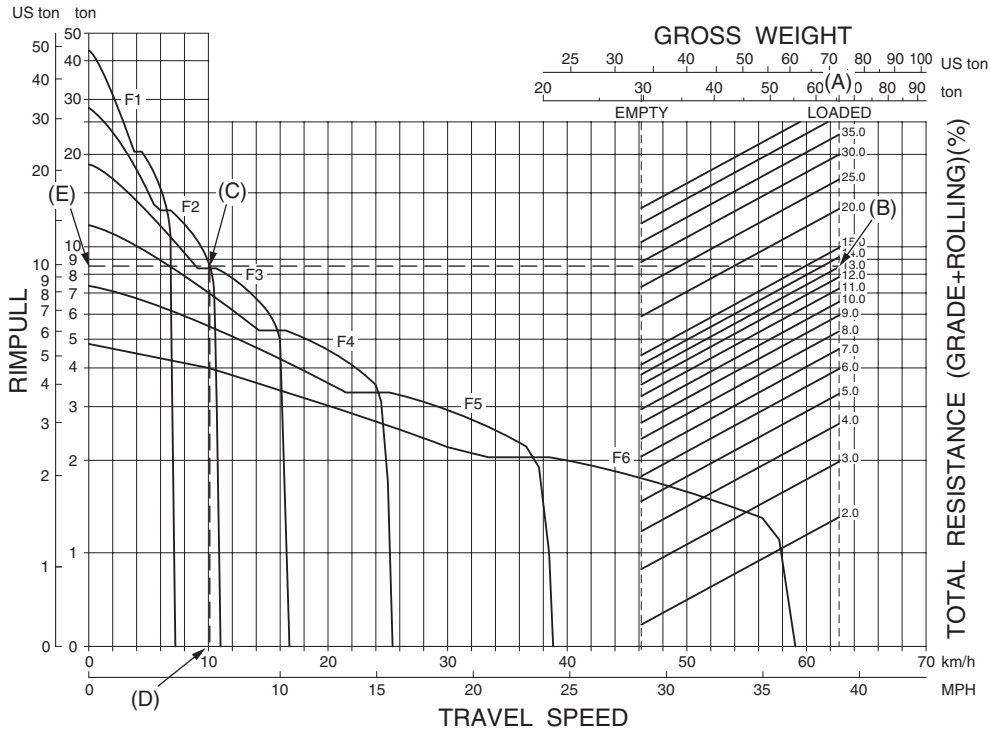
Unit: mm (ft.in)

	HM400-1				
Tires	29.5 R25				
A	11025 (36'2")				
B	3700 (12'2")				
C	3450 (11'4")				
D	2690 (8'10")				
E	4350 (14'3")				
F	1970 (6'6")				
G	1820 (6'0")				
H	620 (2'0")				
J	1600 (5'3")				
K	5640 (18'6")				
M	2970 (9'9")				
N	7130 (23'5")				
P	720 (2'4")				
Q (deg.)	70°				
R (deg.)	45°				
S	8700 (28'7")				
T	4170 (13'8")				

Use of travel performance curve

For assessing a vehicle's grade-ability, travel speed, rim pull, etc. First, draw a vertical line according to the vehicle's weight (A) and mark the point (B) corresponding to total resistance (the sum of rolling resistance and grade resistance). Next, draw a horizontal line from (B), then mark (C) where the line intersects the rim pull curve and read (E) for the rim pull. For travel speed (D), draw a vertical line downward from (C).

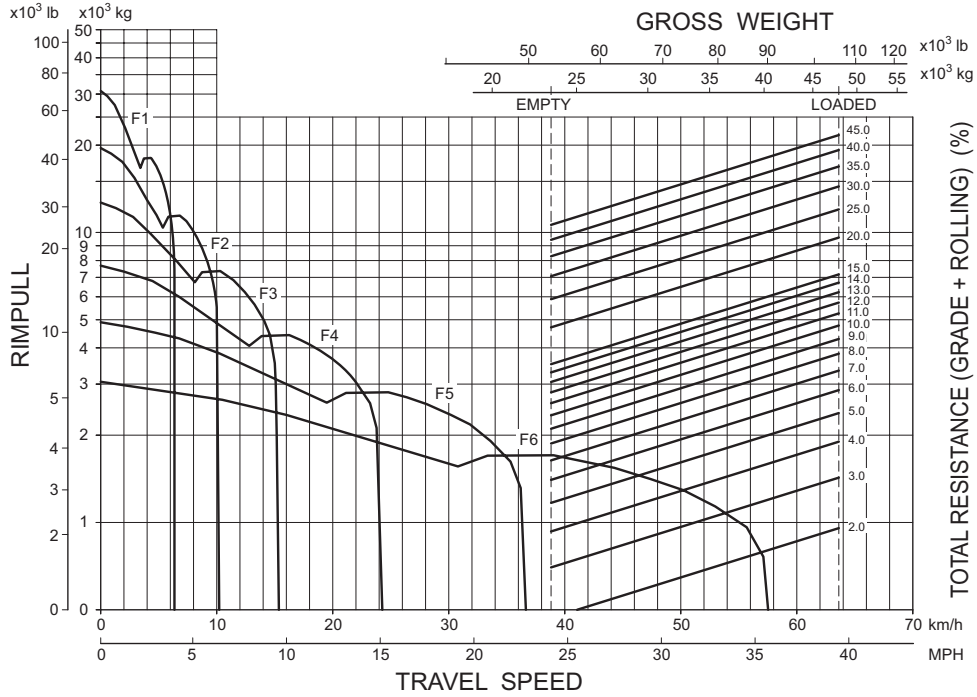
For instance, when traveling an 8% gradient and encountering a 5% rolling resistance, a vehicle with a 36.5 ton (40-U.S. ton) payload should have a rim pull of 8.5 tons (18,740 lb) and travel at a speed of 10 km/h (6.2 MPH) in forward 2nd gear.



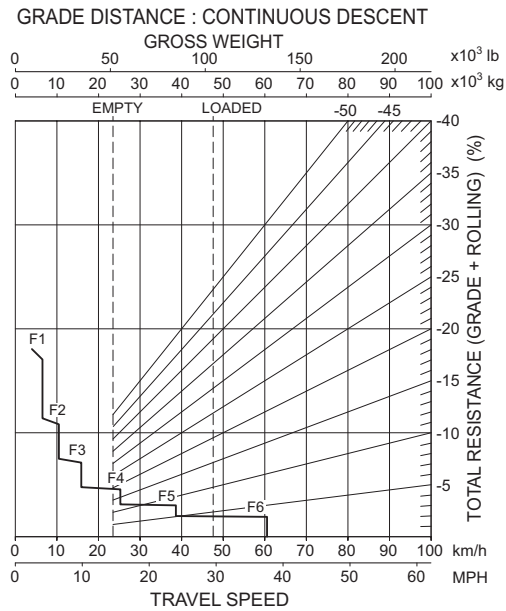
HM250-2 Performance Curves

ARTICULATED DUMP TRUCKS

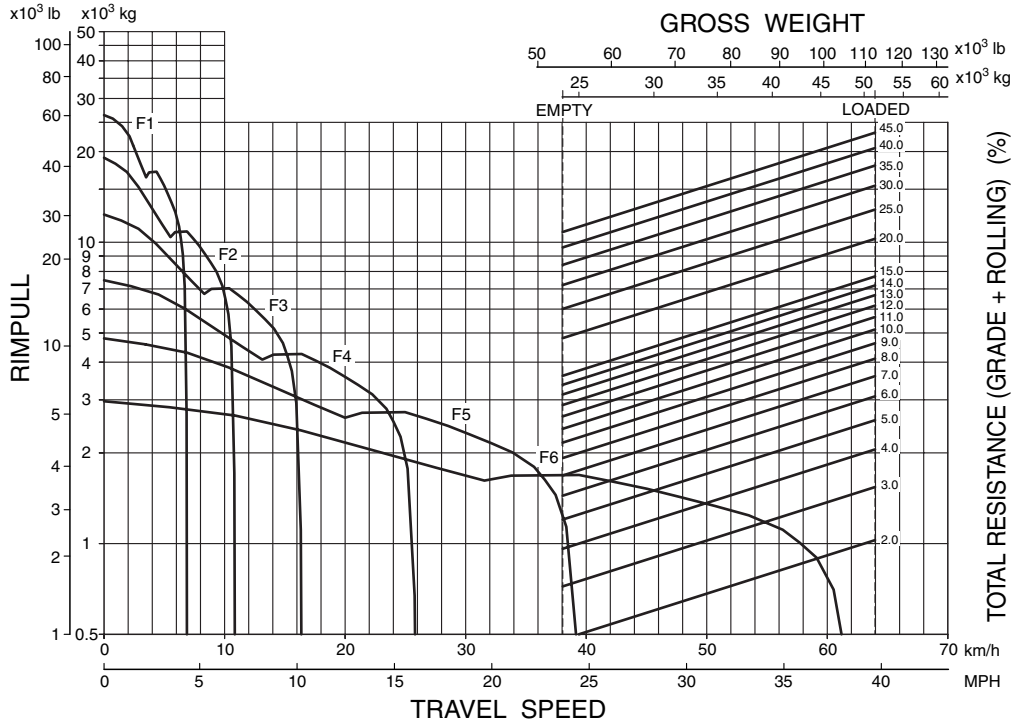
Travel Performance Curve



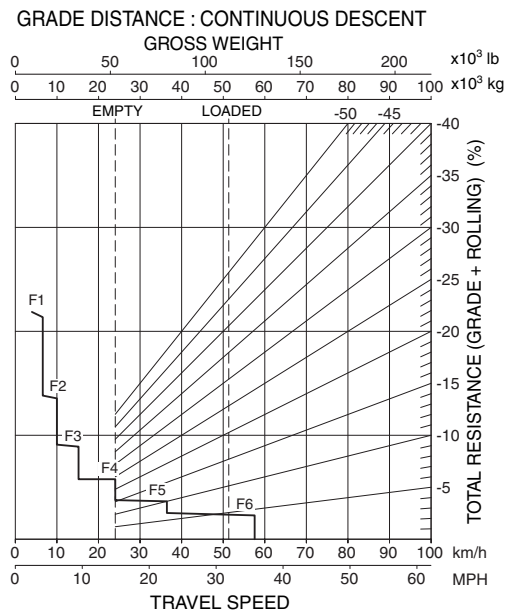
Brake performance



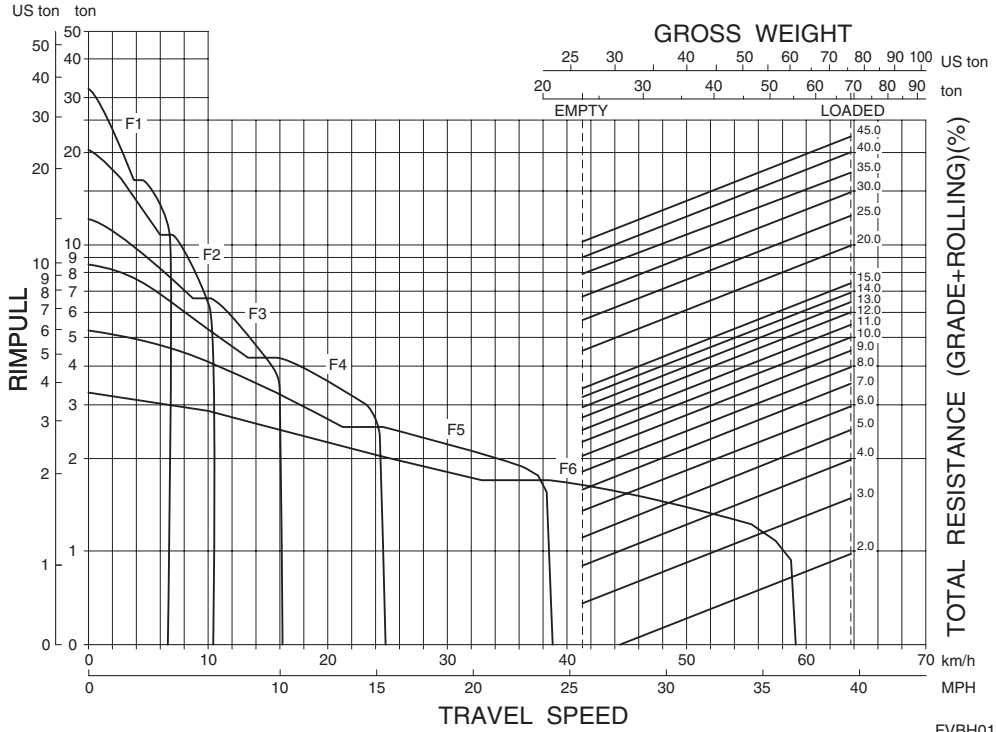
Travel Performance Curve



Brake performance

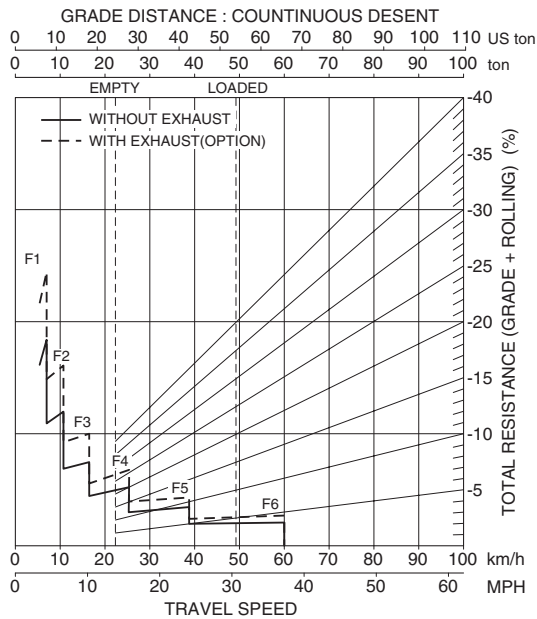


Travel Performance Curve



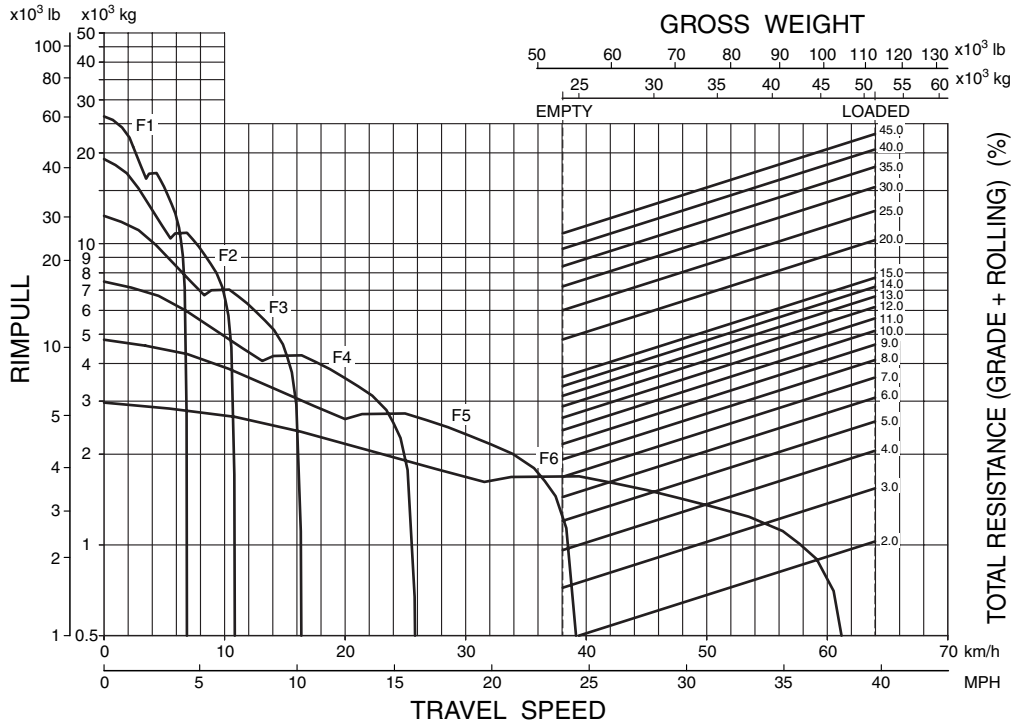
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Brake performance

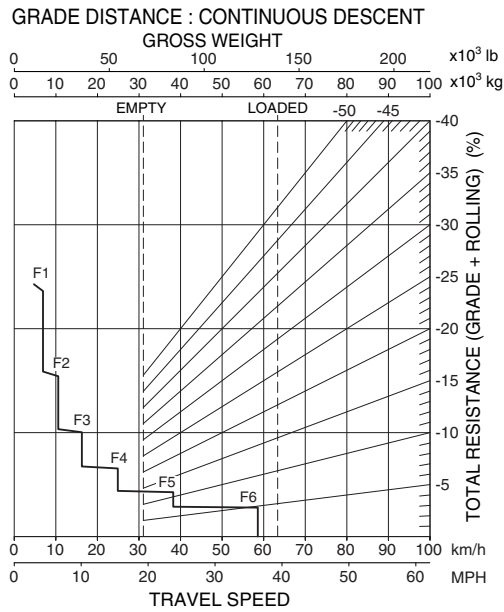


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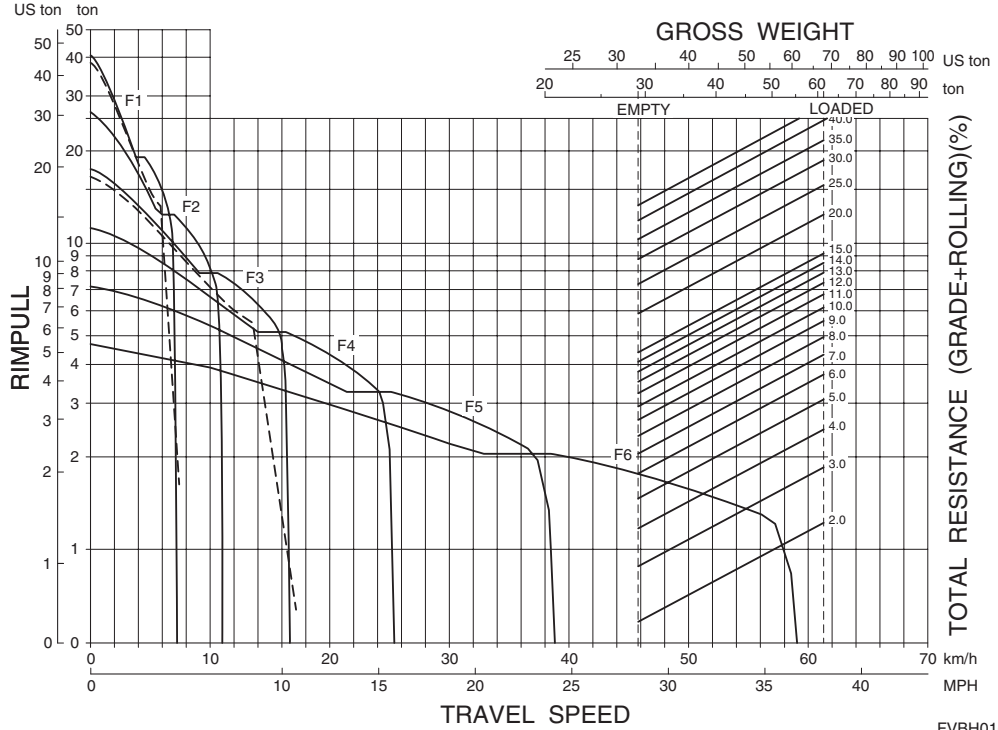
Travel Performance Curve



Brake performance

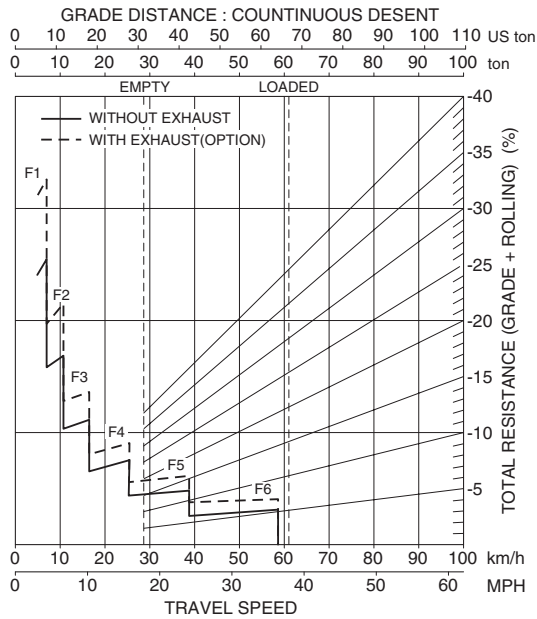


Travel Performance Curve



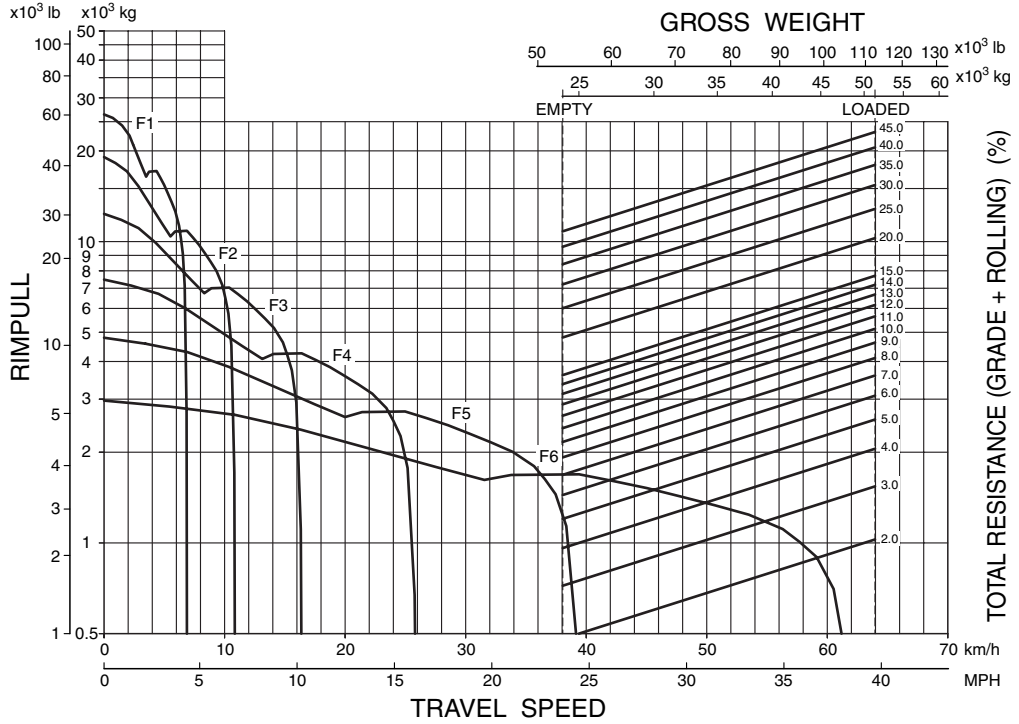
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Brake performance

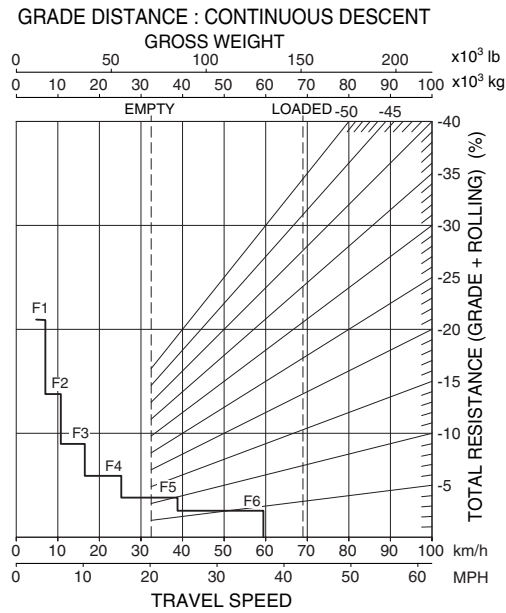


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Travel Performance Curve



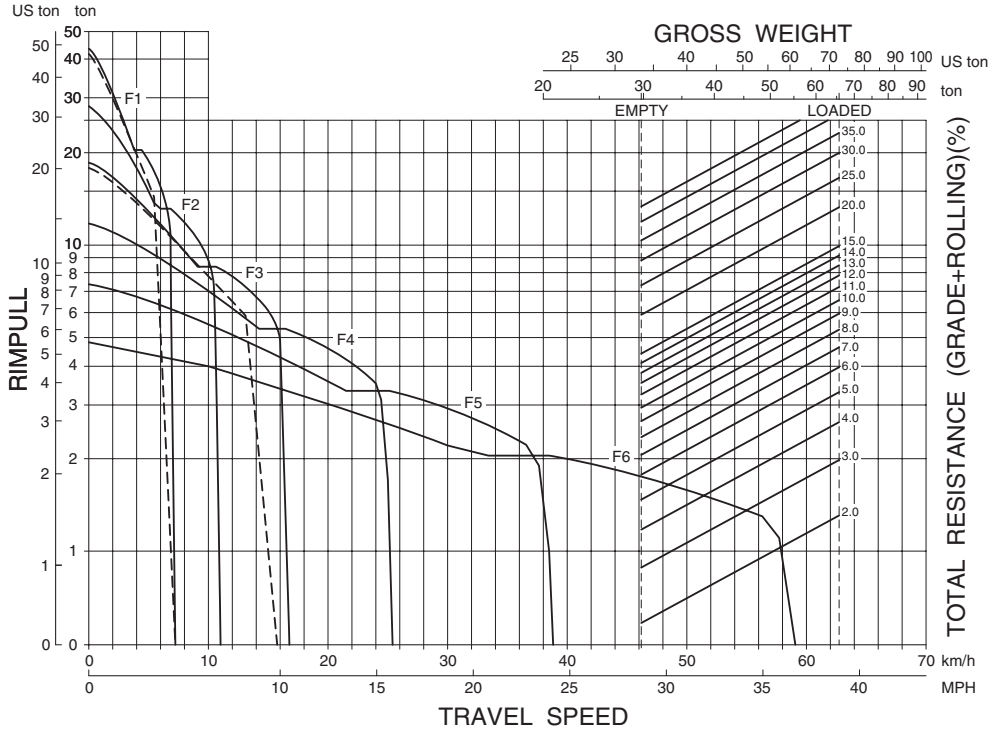
Brake performance



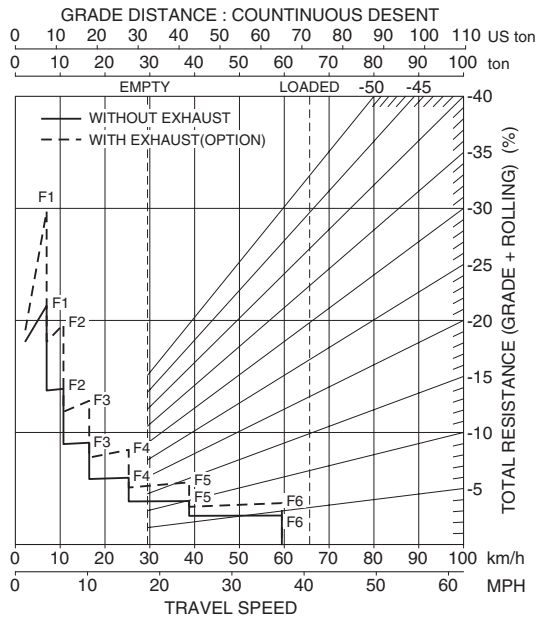
HM400-1 Performance Curves

ARTICULATED DUMP TRUCKS

Travel Performance Curve



Brake performance



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HM250-2

Item	Tire	23.5R25	
WEIGHT:	kg (lb)		
Empty vehicle weight*		23600 (52,030)	
Distribution (front)		13595 (29,970)	
(center)		5380 (11,860)	
(rear)		4625 (10,200)	
Gross vehicle weight		47680 (105,120)	
Distribution (front)		15400 (33,950)	
(center)		16880 (37,210)	
(rear)		15400 (33,950)	
GROUND CONTACT AREA:	cm ² (in ²)		
Empty: Front tire		1450 (228.5)	
Center tire		795 (123.2)	
Rear tire		780 (120.9)	
Loaded: Front tire		1580 (244.9)	
Center tire		1720 (266.6)	
Rear tire		1580 (244.9)	
GROUND PRESSURE:	kg/cm ² (PSI/kPa)		
Empty: Front tire		4.69 (66.7/460)	
Center tire		3.38 (48.1/331)	
Rear tire		3.35 (47.6/329)	
Loaded: Front tire		4.87 (69.3/478)	
Center tire		4.91 (69.8/482)	
Rear tire		4.87 (69.3/478)	

* Weight includes lubricants, coolant, full fuel tank and standard body.

HM300-2, HM300-2R

Item	Tire	750/65R25	
WEIGHT:	kg (lb)		
Empty vehicle weight*		24620 (54,280)	
Distribution (front)		13650 (30,090)	
(center)		5850 (12,900)	
(rear)		5120 (11,290)	
Gross vehicle weight		52000 (114,640)	
Distribution (front)		15850 (34,940)	
(center)		18440 (40,650)	
(rear)		17710 (39,040)	
GROUND CONTACT AREA:	cm ² (in ²)		
Empty: Front tire		2370 (367.4)	
Center tire		1060 (164.3)	
Rear tire		960 (148.8)	
Loaded: Front tire		2640 (409.2)	
Center tire		2660 (412.3)	
Rear tire		2640 (409.3)	
GROUND PRESSURE:	kg/cm ² (PSI/kPa)		
Empty: Front tire		2.88 (41.0/282)	
Center tire		2.76 (39.2/271)	
Rear tire		2.67 (38.0/262)	
Loaded: Front tire		3.00 (42.7/294)	
Center tire		3.47 (49.3/340)	
Rear tire		3.35 (47.6/329)	

* Weight includes lubricants, coolant, full fuel tank and standard body.

HM300-1

Item	Tire	23.5R25	750/65R25
WEIGHT:	kg (lb)		
Empty vehicle weight*		22500 (49,600)	23545 (51,910)
Distribution (front)		12770 (28,150)	13125 (28,940)
(center)		5000 (11,020)	5345 (11,780)
(rear)		4730 (10,430)	5075 (11,190)
Gross vehicle weight		49875 (109,950)	50920 (112,260)
Distribution (front)		14860 (10,710)	15220 (33,550)
(center)		17805 (39,250)	18125 (39,960)
(rear)		17210 (37,940)	17575 (38,750)
GROUND CONTACT AREA:	cm ² (in ²)		
Empty: Front tire		1750 (271.3)	2150 (333.3)
Center tire		845 (131.0)	970 (150.4)
Rear tire		800 (124.0)	950 (147.3)
Loaded: Front tire		1960 (303.8)	2380 (368.9)
Center tire		2230 (345.7)	2575 (399.1)
Rear tire		2160 (334.8)	2510 (389.1)
GROUND PRESSURE:	kg/cm ² (PSI/kPa)		
Empty: Front tire		3.65 (51.9/357.9)	3.05 (43.4/299.1)
Center tire		2.96 (42.1/290.3)	2.76 (39.2/270.7)
Rear tire		2.96 (42.1/290.3)	2.67 (38.0/261.8)
Loaded: Front tire		3.79 (53.9/371.7)	3.20 (45.5/313.8)
Center tire		3.99 (56.7/391.3)	3.52 (50.1/345.2)
Rear tire		3.98 (56.6/390.3)	3.50 (49.8/343.2)

* Weight includes lubricants, coolant, full fuel tank and standard body.

HM350-2, HM350-2R

Item	Tire	26.5R25	
WEIGHT:	kg (lb)		
Empty vehicle weight*		31200 (68,780)	
Distribution (front)		17920 (39,510)	
(center)		6730 (14,840)	
(rear)		6550 (14,440)	
Gross vehicle weight		63580 (140,170)	
Distribution (front)		20280 (44,710)	
(center)		21740 (47,930)	
(rear)		21560 (47,530)	
GROUND CONTACT AREA:	cm ² (in ²)		
Empty: Front tire		2370 (367.4)	
Center tire		1075 (166.6)	
Rear tire		1030 (159.7)	
Loaded: Front tire		2560 (396.8)	
Center tire		2620 (406.1)	
Rear tire		2580 (399.9)	
GROUND PRESSURE:	kg/cm ² (PSI/kPa)		
Empty: Front tire		3.78 (53.8/371)	
Center tire		3.13 (44.5/307)	
Rear tire		3.18 (45.2/312)	
Loaded: Front tire		3.96 (56.3/388)	
Center tire		4.15 (59.0/407)	
Rear tire		4.18 (59.4/410)	

* Weight includes lubricants, coolant, full fuel tank and standard body.

HM350-1

Item	Tire	26.5R25	800/65R29
WEIGHT:	kg (lb)		
Empty vehicle weight*		28550 (62,940)	30034 (66,210)
Distribution (front)		15850 (34,920)	16378 (36,110)
(center)		6350 (14,000)	6828 (15,050)
(rear)		6350 (14,000)	6828 (15,050)
Gross vehicle weight		60925 (134,320)	62409 (137,590)
Distribution (front)		18545 (40,880)	18973 (41,830)
(center)		21190 (46,720)	21718 (47,880)
(rear)		21190 (46,720)	21718 (47,880)
GROUND CONTACT AREA:	cm ² (in ²)		
Empty: Front tire		2400 (372.0)	2662 (412.6)
Center tire		1160 (179.8)	1707 (264.6)
Rear tire		1160 (179.8)	1707 (264.6)
Loaded: Front tire		2700 (418.5)	2932 (454.5)
Center tire		2650 (410.8)	3170 (491.4)
Rear tire		2650 (410.8)	3170 (491.4)
GROUND PRESSURE:	kg/cm ² (PSI/kPa)		
Empty: Front tire		3.30 (46.9/323.6)	3.08 (43.8/302.0)
Center tire		2.74 (39.0/268.7)	2.00 (28.4/196.1)
Rear tire		2.74 (39.0/268.7)	2.00 (28.4/196.1)
Loaded: Front tire		3.43 (48.8/336.4)	3.24 (46.1/317.8)
Center tire		4.00 (56.9/392.3)	3.43 (48.8/336.4)
Rear tire		4.00 (56.9/392.3)	3.43 (48.8/336.4)

* Weight includes lubricants, coolant, full fuel tank and standard body.

HM400-2, HM400-2R

Item	Tire	29.5R25	
WEIGHT:	kg (lb)		
Empty vehicle weight*		32590 (71,850)	
Distribution (front)		17960 (39,595)	
(center)		7440 (16,400)	
(rear)		7190 (15,850)	
Gross vehicle weight		69170 (152,490)	
Distribution (front)		20080 (44,270)	
(center)		24670 (54,390)	
(rear)		24420 (53,840)	
GROUND CONTACT AREA:	cm ² (in ²)		
Empty: Front tire		3093 (479.4)	
Center tire		1360 (210.8)	
Rear tire		1330 (206.2)	
Loaded: Front tire		3360 (520.8)	
Center tire		3940 (610.7)	
Rear tire		3840 (595.2)	
GROUND PRESSURE:	kg/cm ² (PSI/kPa)		
Empty: Front tire		2.90 (41.2/284)	
Center tire		2.74 (39.0/269)	
Rear tire		2.70 (38.4/265)	
Loaded: Front tire		2.99 (42.5/293)	
Center tire		3.13 (44.5/307)	
Rear tire		3.18 (45.2/312)	

* Weight includes lubricants, coolant, full fuel tank and standard body.

HM400-1

Item	Tire	29.5R25	875/65R29
WEIGHT:	kg (lb)		
Empty vehicle weight*		30300 (66,800)	31260 (68,920)
Distribution (front)		16790 (37,020)	17110 (37,720)
(center)		6755 (14,890)	7075 (15,600)
(rear)		6755 (14,890)	7075 (15,600)
Gross vehicle weight		66875 (147,430)	67835 (149,550)
Distribution (front)		19055 (42,010)	19375 (42,710)
(center)		23910 (51,120)	24230 (53,420)
(rear)		23910 (51,120)	24230 (53,420)
GROUND CONTACT AREA:	cm ² (in ²)		
Empty: Front tire		2570 (398.4)	3350 (519.3)
Center tire		1170 (181.4)	2050 (317.8)
Rear tire		1170 (181.4)	2050 (317.8)
Loaded: Front tire		2900 (449.5)	3660 (567.3)
Center tire		3300 (511.5)	3980 (616.9)
Rear tire		3300 (511.5)	3980 (616.9)
GROUND PRESSURE:	kg/cm ² (PSI/kPa)		
Empty: Front tire		3.27 (46.5/320.7)	2.55 (36.3/250.1)
Center tire		2.89 (41.1/283.4)	1.73 (24.6/169.7)
Rear tire		2.89 (41.1/283.4)	1.73 (24.6/169.7)
Loaded: Front tire		3.29 (46.8/322.6)	2.65 (37.7/259.9)
Center tire		3.62 (51.5/355.0)	3.04 (43.2/298.1)
Rear tire		3.62 (51.5/355.0)	3.04 (43.2/298.1)

* Weight includes lubricants, coolant, full fuel tank and standard body.

TIRE SELECTION GUIDE FOR ARTICULATED DUMP TRUCKS

HM300-1, HM300-2, HM300-2R

Tire size	Manu- facturer*	Pattern	Charac- teristics	Code	Star Rating	Inflation pressure	Applicable terrain	Feature
23.5 R25	BS	VKT	CR	E2	☆☆	4.5	Soft and muddy surfaces	Good traction and floatation
23.5 R25	BS	VLT	CR	E2	☆☆	4.5	Wet, soft and muddy surface	Rubber volume of tread ratio (VKT:1, VLT:1.25) Excellent maneuverability, traction and floatation
23.5 R25	GY	RL-2+		E2	☆☆	4.5		
23.5 R25	GY	GP-2B		E2	☆☆	4.5		Smoother ride and good traction
23.5 R25	MC	XADN		E2		4.5		
23.5 R25	TY	T-331	CR	E3	☆☆	4.5	Soft surface and hard soil field	High wear-resistance, cut and tip-resistance
750/65 R25	BS	VLT	CR	E2	☆☆	F:3.5 C.R:4.1	Wet, soft and muddy surface	Good traction and floatation
750/65 R25	GY	RL-2+		E2	☆☆	F:3.5 C.R:4.1		
750/65 R25	MC	XAD65-1		E3		F:3.5 C.R:4.1		

HM300-1 tire ground pressures

	Tire maker, type		BS, VLT	BS, VLT, wide		
	Tire size	—	23.5R25	750/G5R25		
Empty	Front tire	kg/cm ² (PSI)	3.65 (51.9)	3.05 (43.4)		
	Center tire	kg/cm ² (PSI)	2.96 (42.1)	2.76 (39.2)		
	Rear tire	kg/cm ² (PSI)	2.96 (42.1)	2.67 (38.0)		
Loaded	Front tire	kg/cm ² (PSI)	3.79 (53.9)	3.20 (45.5)		
	Center tire	kg/cm ² (PSI)	3.99 (56.7)	3.52 (50.1)		
	Rear tire	kg/cm ² (PSI)	3.99 (56.7)	3.50 (49.8)		

HM350-1, HM350-2, HM350-2R

Tire size	Manu- facturer*	Pattern	Charac- teristics	Code	Star Rating	Inflation pressure	Applicable terrain	Feature
26.5 R25	BS	VKT	CR	E2	☆☆	4.5	Soft and muddy surfaces	Good traction and floatation
26.5 R25	BS	VLT	CR	E2	☆☆	4.5	Soft and muddy surfaces	Rubber volume of tread ratio (VKT:1, VLT:1.25) Excellent maneuverability, traction and floatation
26.5 R25	BS	VLTS	CR	E4	☆☆	4.5	Soft and muddy surfaces	High wear-resistance, cut- resistance because of deep tread (STD:1, VLTS:1.5)
26.5 R25	GY	RL-2+		E2	☆☆	4.5		
26.5 R25	GY	GP-2B		E2	☆☆			
26.5 R25	GY	TL-3A+		E3	☆☆			
26.5 R25	GY	GP-4B AT		E4	☆☆			
26.5 R25	MC	XADN E3T		E3				
26.5 R25	MC	XADT E4T		E4		4.5		
26.5 R25	MC	XADN E3V		E3		4.5		
26.5 R25	TY	T-351		E3	☆☆		Soft surface and under ground	Good traction, anti-sideways slip and cut-resistance
800/65 R29	GY	GP-4D		E4	☆☆	4.0		

HM350-1 tire ground pressures

	Tire maker, type		BS, VLT	BS, VLT, wide		
	Tire size	—	26.5 R25	800/65 R29		
Empty	Front tire	kg/cm ² (PSI)	3.35 (33.4)	3.08 (43.8)		
	Center tire	kg/cm ² (PSI)	2.82 (40.1)	2.00 (28.4)		
	Rear tire	kg/cm ² (PSI)	2.82 (40.1)	2.00 (28.4)		
Loaded	Front tire	kg/cm ² (PSI)	3.46 (49.2)	3.24 (46.1)		
	Center tire	kg/cm ² (PSI)	4.04 (57.4)	3.43 (48.8)		
	Rear tire	kg/cm ² (PSI)	4.04 (57.4)	3.43 (48.8)		

* Tire maker.....BS:BRIDGESTONE GY:GOODYEAR MC:MICHELIN TY:TOYO

Tire Selection

ARTICULATED DUMP TRUCKS

HM400-1, HM400-2, HM400-2R

Tire size	Manu- facturer*	Pattern	Charac- teristics	Code	Star Rating	Inflation pressure	Applicable terrain	Feature
29.5 R25	BS	VLT	CR	E4	☆☆		Soft and muddy surfaces	High wear-resistance, cut-resistance
29.5 R25	BS	VKT	CR	E2	☆☆	3.8	Soft and muddy surfaces	Good traction and floatation
29.5 R25	BS	VLT		E2	☆☆	3.8	Soft and muddy surfaces	Good traction and floatation
29.5 R25	BS	VKT		E2	☆☆	3.8	Soft and muddy surfaces	Good traction and floatation
29.5 R25	GY	RL-2+		E2	☆☆	4.1		
29.5 R25	GY	GP-2B		E2	☆☆			
29.5 R25	GY	GP-4B AT		E4	☆☆			
29.5 R25	MC	XADN E3T		E3				
29.5 R25	MC	XADN E3V		E3				
29.5 R25	MC	XADT E4T		E4		4.0		
29.5 R25	TY	T-351		E3	☆☆		Soft surface and under ground	Good traction, anti-sideways slip and cut-resistance
875/65 R29	GY	GP-4D		E4	☆☆	4.5		
875/65 R29	MC	XAD65-1		E3		4.5		

HM400-1 tire ground pressures

	Tire maker, type		BS, VLT	BS, VLT, wide		
	Tire size	—	29.5 R25	875/65 R29		
Loaded	Empty	Front tire	kg/cm ² (PSI)	3.27 (46.5)	2.56 (36.4)	
	Center tire	kg/cm ² (PSI)	2.89 (41.1)	1.73 (24.6)		
	Rear tire	kg/cm ² (PSI)	2.89 (41.1)	1.73 (24.6)		
	Loaded	Front tire	kg/cm ² (PSI)	3.37 (47.9)	2.71 (38.5)	
	Center tire	kg/cm ² (PSI)	3.62 (51.5)	3.04 (43.2)		
	Rear tire	kg/cm ² (PSI)	3.62 (51.5)	3.04 (43.2)		

* Tire maker.....BS:BRIDGESTONE GY:GOODYEAR MC:MICHELIN TY:TOYO

TIRE PATTERN

BRIDGESTONE



GOODYEAR



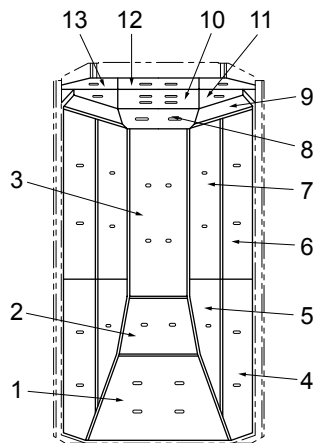
MICHELIN



TOYO



1. Liner application



- Body top view -

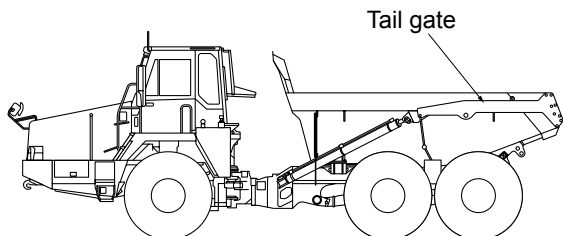
FVBH0465

No.	Part	Plate thickness mm (in)		
		HM300-1	HM350-1	HM400-1
(1)	Bottom (end1)	14 (0.55)	16 (0.63)	16 (0.63)
(2)	Bottom (end2)	14 (0.55)	16 (0.63)	16 (0.63)
(3)	Bottom	14 (0.55)	16 (0.63)	16 (0.63)
(4)	Side (top-end)	12 (0.47)	12 (0.47)	12 (0.47)
(5)	Side (bottom-end)	14 (0.55)	16 (0.63)	16 (0.63)
(6)	Side (top-middle)	12 (0.47)	12 (0.47)	12 (0.47)
(7)	Side (bottom-middle)	14 (0.55)	16 (0.63)	16 (0.63)
(8)	Corner (bottom)	14 (0.55)	16 (0.63)	16 (0.63)
(9)	Corner (side)	12 (0.47)	12 (0.47)	12 (0.47)
(10)	Front (center)	12 (0.47)	12 (0.47)	12 (0.47)
(11)	Front (side)	8 (0.31)	8 (0.31)	8 (0.31)
(12)	Canopy (center)	8 (0.31)	8 (0.31)	8 (0.31)
(13)	Canopy (side)	8 (0.31)	8 (0.31)	8 (0.31)
Liner weight kg (lb)		2440 (5380)	2540 (5605)	2675 (5900)

No.	Part	Plate thickness mm (in)			
		HM250-2	HM300-2	HM350-2	HM400-2
(1)	Bottom (end1)	14 (0.55)	14 (0.55)	16 (0.63)	16 (0.63)
(2)	Bottom (end2)		14 (0.55)	16 (0.63)	
(3)	Bottom	14 (0.55)	14 (0.55)	16 (0.63)	16 (0.63)
(4)	Side (top-end)	12 (0.47)	12 (0.47)	12 (0.47)	12 (0.47)
(5)	Side (bottom-end)	14 (0.55)	14 (0.55)	16 (0.63)	16 (0.63)
(6)	Side (top-middle)	12 (0.47)	12 (0.47)	12 (0.47)	12 (0.47)
(7)	Side (bottom-middle)	14 (0.55)	14 (0.55)	16 (0.63)	16 (0.63)
(8)	Corner (bottom)	14 (0.55)	14 (0.55)	16 (0.63)	16 (0.63)
(9)	Corner (side)	12 (0.47)	12 (0.47)	12 (0.47)	12 (0.47)
(10)	Front (center)	12 (0.47)	12 (0.47)	12 (0.47)	12 (0.47)
(11)	Front (side)	8 (0.31)	8 (0.31)	9 (0.35)	8 (0.31)
(12)	Canopy (center)	8 (0.31)	8 (0.31)	9 (0.35)	8 (0.31)
(13)	Canopy (side)	8 (0.31)	8 (0.31)	9 (0.35)	8 (0.31)
Liner weight kg (lb)		1935 (4265)	2440 (5380)	2515 (5545)	2710 (5975)

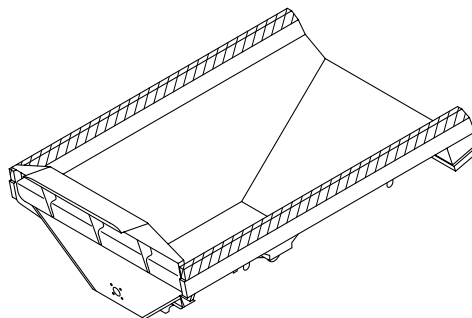
2. Body extension & tail gate

Tail Gate



FVBH0466

Extension (+200 mm (7.9"))



FVBH0467

Body capacity m³ (yd³)

		HM300-1	HM350-1	HM400-1
Standard body	Heaped	16.6 (21.7)	19.8 (25.9)	22.3 (29.2)
	Struck	12.9 (16.9)	14.6 (19.1)	16.5 (21.6)
With 200 mm (7.9") extension	Heaped	18.6 (24.3)	22.2 (29.0)	24.7 (32.3)
	Struck	15.1 (19.7)	17.6 (23.0)	19.3 (25.2)
With tail gate	Heaped	17.3 (22.6)	20.5 (26.8)	23.1 (30.2)
	Struck	13.4 (17.5)	15.0 (19.6)	17.0 (22.2)

		HM250-2	HM300-2	HM350-2	HM400-2
Standard body	Heaped	14.7 (19.2)	16.6 (21.7)	19.8 (25.9)	22.3 (29.2)
	Struck	11.1 (14.5)	12.9 (16.9)	14.6 (19.1)	16.5 (21.6)
With 200 mm (7.9") extension	Heaped	16.6 (21.7)	18.6 (24.3)	22.3 (29.2)	24.7 (32.3)
	Struck	13.3 (17.4)	15.1 (19.8)	17.9 (23.4)	19.3 (25.2)
With tail gate	Heaped	15.3 (20.0)	17.3 (22.6)	20.6 (26.9)	23.1 (30.2)
	Struck	11.5 (15.0)	13.4 (17.5)	15.1 (19.8)	17.0 (22.2)

SECTION **4C**

CRAWLER CARRIERS

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High efficiency hauling operation on uneven and soft grounds

A full 360° rotation capacity provides forward-facing operation under any conditions and minimizes space required for turn-around.

- Super low ground pressure;
 - Does not bog down in wet and swampy area.
 - Keep working on rainy day.
- Super gradeability
 - Faster climbing speed on steep slope.
 - Reduced slippage in wet conditions.
 - Eliminates need for road maintenance machine.
- Extra space for turn-around not required
 - Able to work in confined area
 - Always keep forward-facing operation.
 - Minimize ground disturbance.
 - Longer rubber shoe life
- Easy to side dump
 - Easy to dump materials along road.
e.g. Pipe laying, Smooth spreading
- Easy positioning for loading
 - Easy to load material from any direction.

High performance

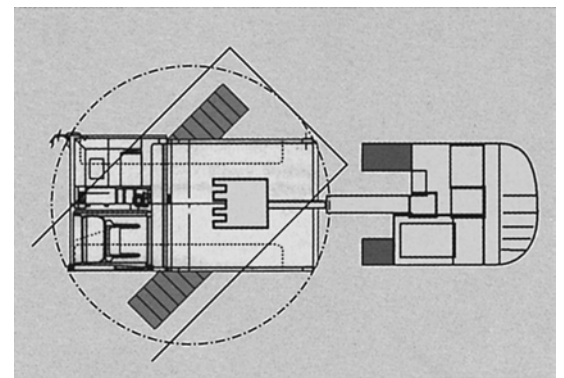
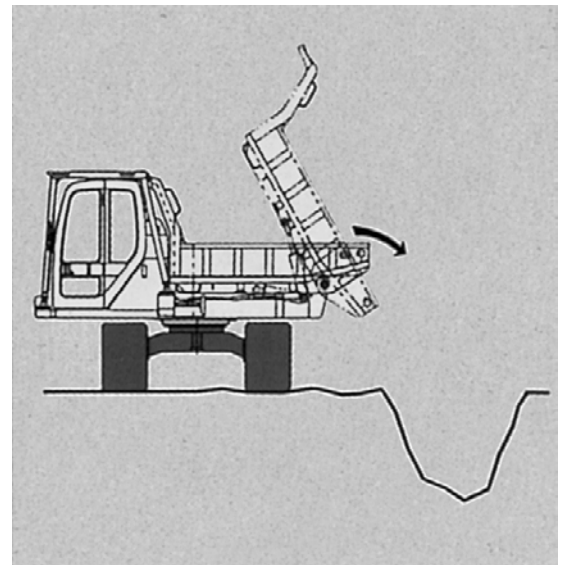
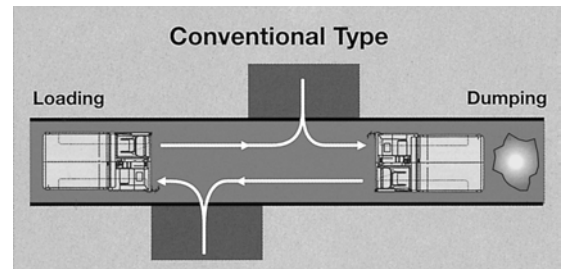
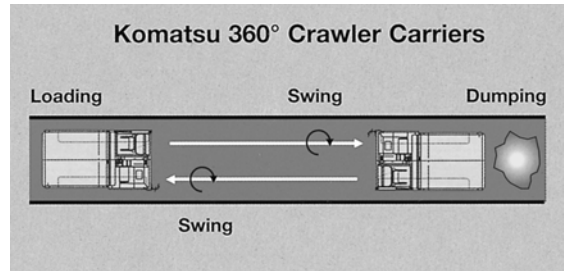
- High travel performance
Travel performance on soft ground and slopes is greatly improved by large drawbar pull, and low ground pressure.
- Automatic high-low downshift function
If the travel load increases when the machine is traveling in the high-speed range, the transmission gear automatically downshifts to the low speed range to increase the drive force.

Operator comfort

- Large cab
A large cab provides secure, safe and comfortable operation. The CD60/110R offer all the conveniences an operator could want. Full adjustable seat and well placed low effort controls make work easy on any job site.
- Easy dumping by foot pedal operation
Travel direction and upper structure rotation is controlled by hand levers. Dumping is controlled by a foot pedal allowing effective, well-balanced use of both hands and feet.

Excellent safety, reliability and durability

- ROPS/FOPS
The CD60/110R are equipped with ROPS and FOPS for safety.
- Field-proven hydraulic components
Rotation and control functions offer excellent performance with unmatched reliability.
- Strong and deformation-resistant dump body
The dump body is made of high tensile strength steel and reinforced with ribs to prevent deformation.



Specifications

CRAWLER CARRIERS

Item	Model	CD60R-1	CD110R-2
WEIGHT:	kg (lb)		
Net weight - Unloaded		8500(18,740)	15600 (34,390)
Gross weight - Loaded		14580(32,150)	26600 (58,640)
HORSEPOWER	kW (HP)/RPM	99.3(133)/2000	182 (244)/1900
HAULING CAPACITY:			
Max. payload	kg (lb)	6000 (13,230)	11000 (24,250)
Heaped capacity	m ³ (cu.yd)	3.2 (4.2)	6.1 (8.0)
PERFORMANCE:			
Travel speed	Low High km/h (MPH) km/h (MPH)	6.0 (3.7) 8.5 (5.3)	4.5 (2.8) 10.0 (6.2)
Swing radius of upper structure	mm (ft.in)	2695 (8'10")	3170 (10'5")
DIMENSION:	mm (ft.in)		
Overall length		4825(15'10")	5405 (17'9")
Overall width		2640 (8'8")	3330 (10'11")
Overall height (at transport)		2775 (9'1")	3185 (10'5")
Track gauge		1790 (5'10")	2080 (6'10")
Track length, between tumblers		3190 (10'6")	3850 (12'8")
ENGINE:		KOMATSU	KOMATSU
Model		S6D102E-1	SAA6D114E-2
No. of cylinders- bore × stroke	mm (in)	6-102 × 120 (4.02 × 4.72)	6-114 × 135 (4.49 × 5.31)
Piston displacement	ltr. (cu.in)	5.88 (3.59)	8.27 (505)
UNDERCARRIAGE:			
No. of rollers (carrier/track)		2/8	2/8
Track shoes		Steel reinforced rubber shoe	Steel reinforced rubber shoe
Width of shoe, standard	mm (in)	600 (23.6)	800 (31.5)
CAPACITY (Refilled):			
Fuel tank	ltr. (U.S. Gal)	130 (34.3)	300 (79.3)

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SECTION **5A**

MOTOR GRADERS

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■ **Wide product range**

Komatsu offers you a complete choice in every category :

- Machine size and weight.
- Engine power
- Rigid or articulated frame
- Transmission : Direct drive or HYDROSHIFT
- Blade length

■ **High productivity**

- Komatsu's diesel engine delivers a strong horsepower and has a direct-injection system for fuel savings and cleaner exhaust.
- The HYDROSHIFT transmission ensures not only efficient power transmitting ability for reduced fuel costs, but also a single-lever speed control and F/R directional changes for easy operation.

• **Hydraulic circuits with pilot checks valves**

Pilot check valves are built into the blade lift, front axle lean and frame articulation circuits.

This prevents drifting of these cylinders, and results in high finishing accuracy. These valves also help maintain the original equipment position and to prevent drift if the control lever is operated with the engine stopped.

• **Wide working range**

Wide blade range, hydraulic blade side-shift, infinitely varied bank cut angle make machine ready for a real variety of operations.

The blade bank-cutting position can be controlled up to 90° on either side from the operator's seat.

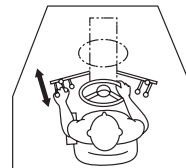
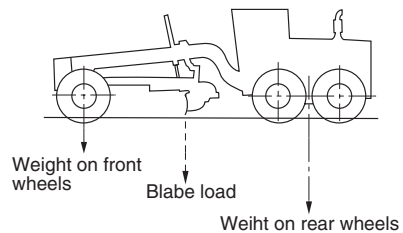
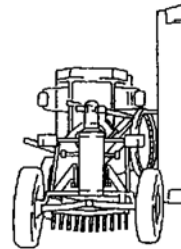
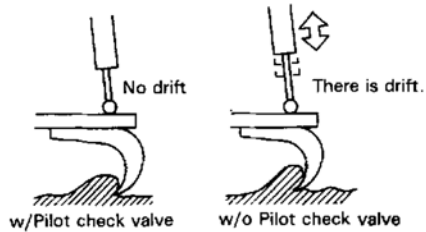
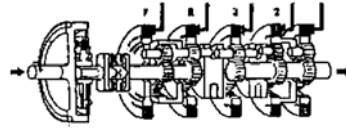
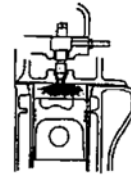
■ **Ideal weight distribution**

- Since the front wheels are loaded with the optimum weight distribution to prevent side slipping, outstanding operational stability is assured especially during operations that impose heavy side thrust on the machine.

■ **Easy operation / operator comfort**

• **Ergonomically arranged instrument and control levers**

Short-stroke levers and reduced-effort controls assure responsive, finger-touch control. Ergonomic, human-engineered design includes logical arrangement of instruments and levers based on frequency of manipulation.

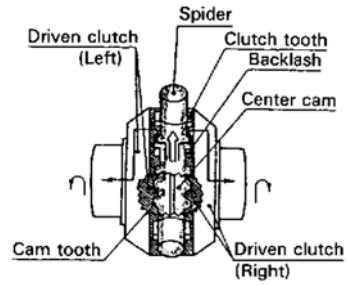


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■ **Max. uptime**

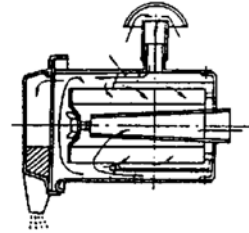
● **Non-spin differential**

Non-spin differential with automatic locking and unlocking can be installed as an option on the final drives, assuring the optimum in smooth steering.



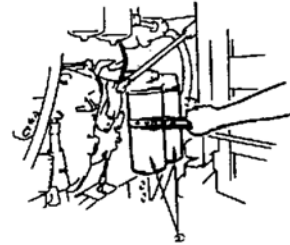
● **Air cleaner with automatic dust evacuator**

Dry-type air cleaner with automatic dust evacuator for longer element service.



● **Spin-on type filters.**

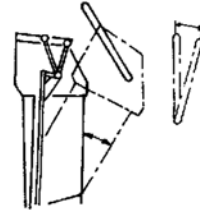
Spin-on type engine oil filters and fuel filters for easy element replacement.



■ **Additional features for GD825A**

● **Tiltable steering post**

Since the left and right control lever wings and steering post are each separate and independently adjustable, the operator can adjust them to the optimum angle for convenience. During travel, the steering column may be tilted toward the operator for easy steering control.



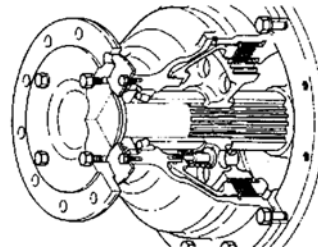
● **Fully adjustable operator seat**

Fully adjustable suspension seat offers more comfortable ride.

● **Oil cooled multiple-disc brake**

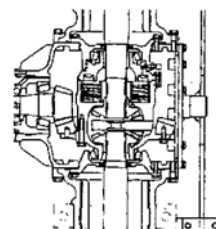
Powerful, adjustment free, oil-cooled multiple disc brakes are employed on all rear tandem wheels.

Since brake discs are oil-lubricated in the tandem cases, high cooling efficiency is maintained to prevent heat build - up during frequent, heavy-duty braking action.



● **Lock / unlock differential gear**

The differential is equipped with an electric-over-hydraulic multiple-disc clutch can actuate differential lock or unlock simply by turning the switch on the console.



Specifications

MOTOR GRADERS

Model		GD511A-1	GD521A-1	•GD555-5	GD555-3A
OPERATING WEIGHT*	kg (lb)	10800 (23,810)	10800 (23,810)	15135 (33,370)	13100 (28,880)
HORSEPOWER:					
SAE J1995: Gross	kW (HP)/rpm	101 (135)/2900	101 (135)/2500	146 (196)/2000	125 (167)/2000
ISO9249/SAE J1349: Net	kW (HP)/rpm	101 (135)/2900	101 (135)/2500	144 (193)/2000	119 (160)/2000
PERFORMANCE:					
Travel speeds:	km/h (MPH)				
Forward 1st		3.4 (2.1)	3.4 (2.1)	3.4 (2.1)	3.3 (2.1)
2nd		6.1 (3.8)	6.1 (3.8)	5.0 (3.1)	4.8 (3.0)
3rd		10.7 (6.6)	10.8 (6.7)	7.0 (4.3)	6.8 (4.2)
4th		14.1 (8.8)	14.2 (8.8)	10.2 (6.3)	9.8 (6.1)
5th		25.5 (15.8)	25.5 (15.8)	15.4 (9.6)	14.9 (9.3)
6th		44.5 (27.7)	44.6 (27.7)	22.3 (13.9)	21.6 (13.4)
7th		—	—	30.6 (19.0)	29.6 (18.4)
8th		—	—	44.3 (27.5)	42.9 (26.7)
Reverse (Max.)		54.4 (33.8)	54.4 (33.8)	40.3 (25.0)	39.1 (24.3)
Max. traction (Drawbar pull)	kg (lb)	6140 (13,535)	6140 (13,535)	8800 (19,400)	7490 (16,510)
Min. turning radius**	mm (ft.in)	6600 (21'8")	6600 (21'8")	7300 (23'11")	6800 (22'4")
DIMENSIONS:					
Overall length	mm (ft.in)	7895 (25'11")	8160 (26'9")	8995 (29'6")	8350 (27'5")
Treads: Front	mm (ft.in)	2020 (6'8")	2020 (6'8")	2070 (6'9")	2130 (7'0")
Rear	mm (ft.in)	2020 (6'8")	2020 (6'8")	2060 (6'9")	2130 (7'0")
Articulation angle (each)	degree	27	27	25	23
ENGINE:					
Model		KOMATSU S6D95L	KOMATSU S6D105	KOMATSU SAA6D107E-1	KOMATSU SAA6D102E-2
No. of cylinders-bore × stroke	mm (in)	6-95 × 115 (3.74 × 4.53)	6-105 × 125 (4.13 × 4.92)	6-107 × 124 (4.21 × 4.88)	6-102 × 120 (4.02 × 4.72)
Piston displacement	ltr. (in ³)	4.89 (298)	6.49 (396)	6.69 (408)	5.88 (359)
CAPACITY					
Fuel tank	ltr. (U.S. Gal)	227 (60.0)	227 (60.0)	416 (109.9)	340 (90)

Model		GD555-3C***	GD611A-1	GD623A-1	•GD655-5
OPERATING WEIGHT*	kg (lb)	14040 (30,950)	12500 (27,555)	12700 (28,000)	15495 (34,160)
HORSEPOWER:					
SAE J1995: Gross	kW (HP)/rpm	125 (167)/2000	116 (155)/2500	116 (155)/2200	165 (221)/2100
ISO9249/SAE J1349: Net	kW (HP)/rpm	119 (160)/2000	116 (155)/2500	116 (155)/2200	163 (218)/2100
PERFORMANCE:					
Travel speeds:	km/h (MPH)				
Forward 1st		3.3 (2.1)	3.5 (2.2)	3.5 (2.2)	3.4 (2.1)
2nd		4.8 (3.0)	6.3 (3.9)	6.3 (3.9)	5.0 (3.1)
3rd		6.8 (4.2)	10.8 (6.7)	10.8 (6.7)	7.0 (4.3)
4th		9.8 (6.1)	14.8 (9.2)	14.8 (9.2)	10.2 (6.3)
5th		14.9 (9.3)	26.2 (16.3)	26.2 (16.3)	15.4 (9.6)
6th		21.6 (13.4)	44.6 (27.7)	45.0 (28.0)	22.3 (13.9)
7th		29.6 (18.4)	—	—	30.6 (19.0)
8th		42.9 (26.4)	—	—	44.3 (27.5)
Reverse (Max.)		39.1 (24.3)	54.4(33.8)	54.8 (34.1)	40.3 (25.0)
Max. traction (Drawbar pull)	kg (lb)	8030 (17,700)	7100 (15,650)	7200 (15,870)	9050 (19,950)
Min. turning radius**	mm (ft.in)	6800 (22'4")	6900 (22'8")	6900 (22'8")	7400 (24'3")
DIMENSIONS:					
Overall length	mm (ft.in)	8350 (27'5")	8380 (27'6")	8500 (27'11")	9205 (30'2")
Treads: Front	mm (ft.in)	2130 (7'0")	2020 (6'8")	2020 (6'8")	2070 (6'9")
Rear	mm (ft.in)	2130 (7'0")	2020 (6'8")	2020 (6'8")	2060 (6'9")
Articulation angle(each)	degree	23	26	26	25
ENGINE:					
Model		KOMATSU SAA6D102E-2	KOMATSU S6D105	KOMATSU 6D125	KOMATSU SAA6D107E-1
No. of cylinders-bore × stroke	mm (in)	6-102 × 120 (4.02 × 4.72)	6-105 × 125 (4.13 × 4.92)	6-125 × 150 (4.0 × 5.9)	6-107 × 124 (4.21 × 4.88)
Piston displacement	ltr. (in ³)	5.88 (359)	6.49 (396)	11.05 (674)	6.69 (408)
CAPACITY					
Fuel tank	ltr. (U.S. Gal)	340 (90)	285 (75.3)	285 (75.3)	416 (109.9)

* Operating weight includes standard blade, standard tires, full fuel tank, lubricants, operator and standard equipment.

** At center of front outside tire, combining the use of full articulation, full front wheel steering and leaning.

*** USA version

• Tier 3 and Stage 3A model

Specifications

MOTOR GRADERS

Model		GD655-3A	•GD655-3E0***	GD661A-1	•GD675-5	
OPERATING WEIGHT*		kg (lb)	14070 (31,020)	15400 (33,950)	13300 (29,320)	15955 (35,175)
HORSEPOWER:						
SAE J1995:	Gross	kW (HP)/rpm	147 (197)/1900	154 (207)/1900		165 (221)/2100
ISO9249/SAE J1349:	Net	kW (HP)/rpm	142 (190)/1900	142 (190)/1900	134 (180)/2500	163 (218)/2100
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward	1st	3.3 (2.1)	3.3 (2.1)	3.5 (2.2)	3.4 (2.1)	
	2nd	4.7 (2.9)	4.7 (2.9)	6.3 (3.9)	5.0 (3.1)	
	3rd	6.7 (4.2)	6.7 (4.2)	10.8 (6.7)	7.0 (4.3)	
	4th	9.7 (6.0)	9.7 (6.0)	14.8 (9.2)	10.2 (6.3)	
	5th	14.6 (9.1)	14.6 (9.1)	26.2 (16.3)	15.4 (9.6)	
	6th	21.2 (13.2)	21.2 (13.2)	44.6 (27.7)	22.3 (13.9)	
	7th	29.1 (18.1)	29.1 (18.1)		30.6 (19.0)	
	8th	42.2 (26.2)	42.2 (26.2)		44.3 (27.5)	
Reverse (Max.)		38.4 (23.9)	38.3 (23.8)	54.4 (33.8)	40.3 (25.0)	
Max .traction (Drawbar pull)		8050 (17,750)	8580 (18,920)	7400 (16,315)	9290 (20,490)	
Min. turning radius**		6900 (22'8")	6900 (22'8")	6900 (22'8")	7400 (24'3")	
DIMENSIONS:						
Overall length		mm (ft.in)	8595 (28'2")	8715 (28'7")	8380 (27'6")	9205 (30'2")
Treads: Front		mm (ft.in)	2130 (7'0")	2130 (7'0")	2020 (6'8")	2170 (7'1")
Rear		mm (ft.in)	2130 (7'0")	2130 (7'0")	2020 (6'8")	2160 (7'1")
Articulation angle (each)		degree	23	23	26	25
ENGINE:						
Model			KOMATSU SAA6D114E	KOMATSU SAA6D114E-3	KOMATSU S6D105	KOMATSU SAA6D107E-1
No. of cylinders-bore × stroke		mm (in)	6 -114 × 135	6 -114 × 135	6 -105 × 125	6 -107 × 124
Piston displacement		ltr. (in ³)	(4.49 × 5.32)	(4.49 × 5.32)	(4.13 × 4.92)	(4.21 × 4.88)
			8.27 (505)	8.27 (505)	6.49 (396)	6.69 (408)
CAPACITY						
Fuel tank		ltr. (U.S. Gal)	340 (90)	340 (90)	285 (75.3)	416 (109.9)

Model		GD675-3A	•GD675-3E0***	GD705A-4	GD825A-2	
OPERATING WEIGHT*		kg (lb)	14870 (32,780)	15810 (34,850)	17620 (38,580)	26350 (58,090)
HORSEPOWER:						
SAE J1995:	Gross	kW (HP)/rpm	149 (200)/1900	154 (207)/1900		209 (280)/2100
ISO9249/SAE J1349:	Net	kW (HP)/rpm	149 (200)/1900	149 (200)/1900	149 (200)/2000	209 (280)/2100
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward	1st	3.3 (2.1)	3.3 (2.1)	3.9 (2.4)	4.0 (2.5)	
	2nd	4.7 (2.9)	4.7 (2.9)	5.2 (3.2)	5.4 (3.4)	
	3rd	6.7 (4.2)	6.7 (4.2)	7.6 (4.7)	8.0 (5.0)	
	4th	9.7 (6.0)	9.7 (6.0)	11.5 (7.1)	11.5 (7.1)	
	5th	14.6 (9.1)	14.6 (9.1)	15.0 (6.8)	15.8 (9.8)	
	6th	21.2 (13.2)	21.2 (13.2)	20.5 (12.7)	21.4 (13.3)	
	7th	29.1 (18.1)	29.1 (18.1)	30.0 (18.6)	31.3 (19.4)	
	8th	42.2 (26.2)	42.2 (26.2)	43.0 (26.7)	44.9 (27.9)	
Reverse (Max.)		38.3 (23.8)	38.3 (23.8)	45.9 (28.5)	47.9 (29.8)	
Max .traction (Drawbar pull)		8510 (18,760)	9050 (19,950)	10180 (22,420)	14705 (32,420)	
Min. turning radius**		6900 (22'8")	6900 (22'8")	7500 (24'7")	7900 (25'11")*5	
DIMENSIONS:						
Overall length		mm (ft.in)	8595 (28'2")	8715 (28'7")	9270 (30'5")	11470 (37'8")
Treads: Front		mm (ft.in)	2130 (7'0")	2130 (7'0")	2300 (7'7")	2620 (8'7")
Rear		mm (ft.in)	2130 (7'0")	2130 (7'0")	2300 (7'7")	2620 (8'7")
Articulation angle (each)		degree	23	23	26	25
ENGINE:						
Model			KOMATSU SAA6D114E	KOMATSU SAA6D114E-3	KOMATSU S6D125	KOMATSU S6D140E
No. of cylinders-bore × stroke		mm (in)	6 -114 × 135	6 -114 × 135	6 -125 × 150	6 -140 × 165
Piston displacement		ltr. (in ³)	(4.49 × 5.31)	(4.49 × 5.31)	(4.9 × 5.9)	(5.51 × 6.50)
			8.27 (505)	8.27 (505)	11.05 (674)	15.24 (930)
CAPACITY						
Fuel tank		ltr. (U.S. Gal)	340 (90)	340 (90)	400 (105.7)	500 (132.1)

* Operating weight includes standard blade, standard tires, full fuel tank, lubricants, operator and standard equipment.

** At center of front outside tire, combining the use of full articulation, full front wheel steering and leaning.

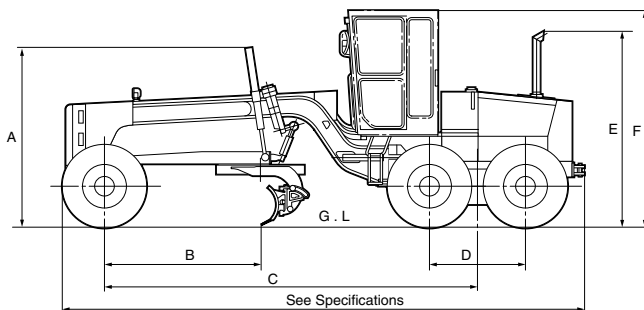
*** USA version

*5 With differential

• Tier 3 and Stage 3A model

Dimensions

MOTOR GRADERS

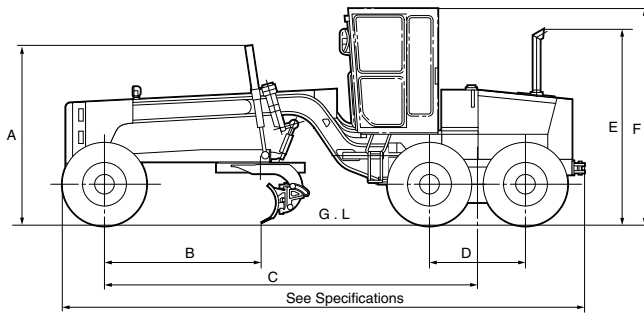


Item		Model	GD511A-1	GD521A-1	GD555-5	GD555-3A	GD555-3C**
BLADE:	Length	mm (ft.in)	3710 (12'2")	3710 (12'2")	3710 (12'2")	3710 (12'2")	3710 (12'2")
	Height*	mm (ft.in)	645 (2'1")	645 (2'1")	645 (2'1")	645 (2'1")	660 (2'2")
TIRES			13.00-24-8PR	13.00-24-8PR	14.00-24-10PR	13.00-24-10PR	13.00-24-12PR
DIMENSIONS:							
A	Height to top of the blade lift cylinders	mm (ft.in)	2815 (9'3")	2815 (9'3")		2957 (9'8")	2957 (9'8")
B	Distance between center of front tires and blade edge	mm (ft.in)	2540 (8'4")	2540 (8'4")	2380 (7'10")	2500 (8'2")	2500 (8'2")
C	Wheelbase	mm (ft.in)	5780 (19')	5780 (19'0")	6270 (20'7")	5850 (19'2")	5850 (19'2")
D	Distance between centers of tandem wheels	mm (ft.in)	1535 (5'0")	1535 (5'0")	1525 (5'0")	1535 (5'0")	1535 (5'0")
E	Height to top of the stack	mm (ft.in)	3165 (10'5")	3120 (10'3")	2997 (9'10")	2980 (9'9")	2980 (9'10")
F	Overall height:	mm (ft.in)					
	When installing the						
	-CANVAS CANOPY		3355 (11')	3355 (11'0")			
	-ROPS CANOPY		3500 (11'6")	3500 (11'6")			
	-ROPS CAB (Low)				3200 (10'6")	3310 (10'10")	3310 (10'10")
	-ROPS CAB (High)		3485 (11'5")	3485 (11'5")		3100 (10'2")	3100 (10'2")
	-STEEL CAB		3340 (11')	3335 (10'11")		3330 (10'11")	3330 (10'11")
	Articulation angle	degree	27	27	25	23	23
	Width over tires:	mm (ft.in)					
	Front		2395 (7'10")	2395 (7'10")	2495 (8'2")	2525 (8'3")	2525 (8'3")
	Rear		2395 (7'10")	2395 (7'10")	2485 (8'2")	2525 (8'3")	2525 (8'3")
	Ground clearance	mm (ft.in)	365 (1'2")	360 (1'2")	390 (1'3")	350 (1'2")	350 (1'2")

Item		Model	GD611A-1	GD623A-1	GD655-5	GD655-3A	GD655-3E0**
BLADE:	Length	mm (ft.in)	3710 (12'2")	3710 (12'2")	3710 (12'2")	3710 (12'2")	3710 (12'2")
	Height*	mm (ft.in)	645 (2'1")	645 (2'1")	645 (2'1")	645 (2'1")	660 (2'2")
TIRES			13.00-24-10PR	13.00-24-10PR	14.00-24-10PR	14.00-24-10PR	14.00-24-10PR
DIMENSIONS:							
A	Height to top of the blade lift cylinders	mm (ft.in)	2815 (9'3")	2815 (9'3")		2977 (9'9")	2977 (9'9")
B	Distance between center of front tires and blade edge	mm (ft.in)	2600 (8'6")	2600 (8'6")	2580 (8'6")	2600 (8'6")	2600 (8'6")
C	Wheelbase	mm (ft.in)	6000 (19'8")	6000 (19'8")	6480 (21'3")	6070 (19'11")	6070 (19'11")
D	Distance between centers of tandem wheels	mm (ft.in)	1535 (5'0")	1535 (5'0")	1525 (5'0")	1535 (5'0")	1535 (5'0")
E	Height to top of the stack	mm (ft.in)	3120 (10'3")	3100 (10'2")	2997 (9'10")	3000 (9'10")	3000 (9'10")
F	Overall height:	mm (ft.in)					
	When installing the						
	-CANVAS CANOPY		3355 (11'0")	3355 (11'0")			
	-ROPS CANOPY		3500 (11'6")	3500 (11'0")			
	-ROPS CAB (Low)				3200 (10'6")	3330 (10'11")	3330 (10'11")
	-ROPS CAB (High)		3485 (11'5")	3485 (11'5")		3120 (10'3")	3120 (10'3")
	-STEEL CAB		3340 (11')	3335 (10'11")		3350 (11'0")	3350 (11'0")
	Articulation angle	degree	26	26	25	23	23
	Width over tires:	mm (ft.in)					
	Front		2395 (7'10")	2395 (7'10")	2495 (8'2")	2550 (8'4")	2550 (8'4")
	Rear		2395 (7'10")	2395 (7'10")	2485 (8'2")	2550 (8'4")	2550 (8'4")
	Ground clearance	mm (ft.in)	355 (1'2")	355 (1'2")	390 (1'3")	370 (1'3")	370 (1'3")

* Blade arc length

** USA version



Item		Model	GD661A-1	GD675-3A	GD675-5	GD675-3E0**	GD705A-4
BLADE:	Length	mm (ft.in)	3710 (12'2")	3710 (12'2")	4320 (14'2")	3710 (12'2")	4320 (14'2")
	Height*	mm (ft.in)	645 (2'1")	645 (2'1")	645 (2'1")	660 (2'2")	700 (2'4")
TIRES			13.00-24-10PR	14.00-24-10PR	17.5 R25	14.00-24-12PR	16.00-24-12PR
DIMENSIONS:							
A	Height to top of the blade lift cylinders	mm (ft.in)	2815 (9'3")	2977 (9'9")		2972 (9'9")	2900 (9'6")
B	Distance between center of front tires and blade edge	mm (ft.in)	2600 (8'6")	2600 (8'6")	2580 (8'6")	2600 (8'6")	2900 (9'6")
C	Wheelbase	mm (ft.in)	6000 (19'8")	6070 (19'11")	6480 (21'3")	6070 (19'11")	6450 (21'2")
D	Distance between centers of tandem wheels	mm (ft.in)	1535 (5')	1535 (5'0")	1525 (5'0")	1535 (5'0")	1730 (5'8")
E	Height to top of the stack	mm (ft.in)	3120 (10'3")	3000 (9'10")	2997 (9'10")	3000 (9'10")	3365 (11')
F	Overall height:	mm (ft.in)					
	When installing the						
	-CANVAS CANOPY		3355 (11'0")				3365 (11')
	-ROPS CANOPY		3500 (11'6")	3320 (10'11")		3320 (10'11")	3560 (11'8")
	-ROPS CAB (Low)			3120 (10'3")	3200 (10'6")	3115 (10'3")	
	-ROPS CAB (High)		3485 (11'5")	3350 (11'0")		3350 (11'0")	3560 (11'8")
	-STEEL CAB		3340 (11')				3365 (11')
	Articulation angle	degree	26	23	25	23	26
	Width over tires:	mm (ft.in)					
	Front		2395 (7'10")	2550 (8'4")	2640 (8'8")	2550 (8'4")	2800 (9'2")
	Rear		2395 (7'10")	2550 (8'4")	2630 (8'8")	2550 (8'4")	2800 (9'2")
	Ground clearance	mm (ft.in)	365 (1'2")	370 (1'3")	390 (1'3")	370 (1'3")	410 (1'4")

Item		Model	GD825A-2				
BLADE:	Length	mm (ft.in)	4878 (16')				
	Height*	mm (ft.in)	850 (2'9")				
TIRES			23.5-25-12PR				
DIMENSIONS:							
A	Height to top of the blade lift cylinders	mm (ft.in)	3300 (10'10")				
B	Distance between center of front tires and blade edge	mm (ft.in)	3100 (10'2")				
C	Wheelbase	mm (ft.in)	7100 (23'4")				
D	Distance between centers of tandem wheels	mm (ft.in)	1840 (6')				
E	Height to top of the stack	mm (ft.in)	3490 (11'5")				
F	Overall height:	mm (ft.in)					
	When installing the						
	-CANVAS CANOPY		—				
	-ROPS CANOPY		3550 (11'8")				
	-ROPS CAB (Low)		3550 (11'8")				
	-ROPS CAB (High)		—				
	-STEEL CAB		—				
	Articulation angle	degree	25				
	Width over tires:	mm (ft.in)					
	Front		3310 (11'10")				
	Rear		3310 (11'10")				
	Ground clearance	mm (ft.in)	440 (1'5")				

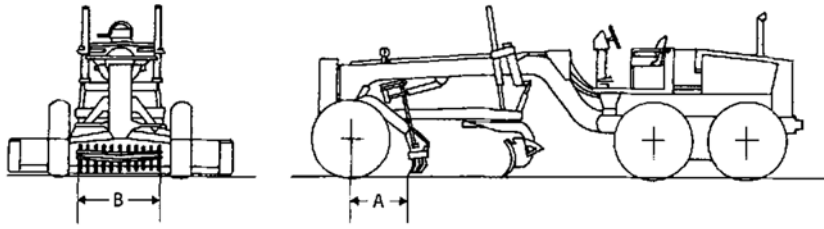
* Blade arc length
 ** USA version

● : Standard equipment
○ : Optional equipment

Item	Model	GD 511A-1	GD 521A-1	GD 555-3A	GD 611A-1	GD 655-3A	GD 661A-1	GD 623A-1	GD 675-3A	GD 705A-4
BLADE										
2.2 m (7.2 ft)										
2.5 m (8.2 ft)										
2.8 m (9.2 ft)										
3.05 m (10 ft)										
3.1 m (10.2 ft)										
3.4 m (11.2 ft)										
3.7 m (12.1 ft)		●	●	●	●	●	●	●	●	
4.0 m (13.1 ft)		○	○	○	○	○	○	○		
4.3 m (14.1 ft)		○	○	○	○	○	○	○	○	●
4.9 m (16.1 ft)										
VARIABLE BLADE										
HYDRAULIC BLADE TIP CONTROL		○	○	○	○	○	○	○	○	●
EXTENSION BLADE										
FRONT DOZER BLADE		○	○		○		○	○		
SCARIFIER										
5 teeth										
6 teeth										
7 teeth										
9 teeth		○	○							
11 teeth		○	○	○	○	○	○	○	○	○
REPLACEBLE TIP TEETH FOR SCARIFIER										
REAR MOUNT RIPPER			○	○		○		○	○	○
PUSH PLATE				○		○		○	○	

Item	Model	GD 825A-2	GD 555-3C*	GD 655-3E0*	GD 675-3E0*	GD 555-5	GD 655-5	GD 675-5
BLADE								
2.2 m (7.2 ft)								
2.5 m (8.2 ft)								
2.8 m (9.2 ft)								
3.05 m (10 ft)								
3.1 m (10.2 ft)								
3.4 m (11.2 ft)								
3.7 m (12.1 ft)			●	●	●	●	●	
4.0 m (13.1 ft)			○	○	○			
4.3 m (14.1 ft)			○	○	○	○	○	●
4.9 m (16.1 ft)		●						
VARIABLE BLADE			○	○	○			
HYDRAULIC BLADE TIP CONTROL		●						
EXTENSION BLADE				○				
FRONT DOZER BLADE			○			○	○	○
SCARIFIER								
5 teeth								
6 teeth								
7 teeth								
9 teeth								
11 teeth				○	○	○	○	○
REPLACEBLE TIP TEETH FOR SCARIFIER			○					
REAR MOUNT RIPPER		○		○	○	○	○	○
PUSH PLATE		○	○	○	○	○	○	○

* USA version



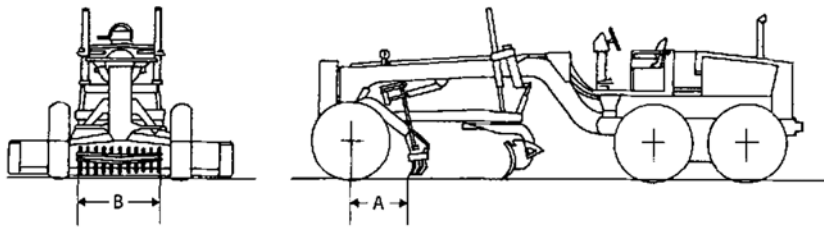
Model		500 SERIES ***	
Item		9	
NO. OF TEETH			
ADDITIONAL WEIGHT:	kg (lb)	Standard Teeth	Point Teeth
To operating weight		+660 (+1,460)	+665 (+1,470)
To front axle		[+685 (+1,510)]	[+690 (+1,520)]
To rear axle		+565 (+1,250)	+570 (+1,260)
		[+585 (+1,290)]	[+590 (+1,300)]
		+95 (+210)	+95 (+210)
		[+100 (+220)]	[+100 (+220)]
DIMENSIONS:			
A: Distance between teeth and center of front tire	mm (ft.in)	970 (3'2")	850 (2'9")
SCARIFIER LOAD*	kg (lb)	4440 (9,790)	4335 (9,560)
SCARIFIER RANGE:			
Digging angle	degree	61 ~ 74	51 ~ 64
Max. lift above ground	mm (ft.in)	340 (1'1") [530 (1'9")]	320 (1'1") [495 (1'7")]
Max. digging depth	mm (ft.in)	260 (10.2") [290 (11.4")]	260 (10.2") [290 (11.4")]
SCARIFIER EQUIPMENT:			
Type		V-type, 2-stage adjustable	V-type, 2-stage adjustable
Weight	kg (lb)	660 (1,460)	665 (1,470)
B: Digging width	mm (ft.in)	1065 (3'6")	1090 (3'7")
Tooth:			
As-installed	mm (in)	275 × 77 × 25	185 × 50 × 36.3
Height × width × thickness		(10.8 × 3.0 × 1.0)	(7.3 × 2.0 × 1.4)
APPLICABLE MODEL		GD510R*** GD511A***	GD510R*** GD511A***

Model		500 SERIES			
Item		11			
NO. OF TEETH					
ADDITIONAL WEIGHT:	kg (lb)	Standard Teeth		Point Teeth	
To operating weight		+690 (+1,520)	+565 (+1,250)	+695 (+1,530)	+570 (+1,260)
To front axle		[+715 (+1,580)]	[+575 (+1,270)]	[+720 (+1,590)]	[+585 (+1,290)]
To rear axle		+590 (+1,300)	+470 (+1,040)	+595 (+1,310)	+475 (+1,050)
		[+610 (+1,340)]	[+475 (+1,050)]	[+615 (+1,360)]	[+485 (+1,070)]
		+100 (+220)	+95 (+210)	+100 (+220)	+95 (+210)
		[+105 (+230)]	[+100 (+220)]	[+105 (+230)]	[+100 (+220)]
DIMENSIONS:					
A: Distance between teeth and center of front tire	mm (ft.in)	970 (3'2")	1005 (3'4")	850 (2'9")	960 (3'2")
SCARIFIER LOAD*	kg (lb)	4470 (9,850)	5335 (11,760)	4265 (9,400)	5295 (11,670)
SCARIFIER RANGE:					
Digging angle	degree	61 ~ 74	63 ~ 78	51 ~ 64	53 ~ 69
Max. lift above ground	mm (ft.in)	340 (1'1")	350 (1'2")	320 (1'1")	320 (1'1")
		[530 (1'9")]		[495 (1'7")]	
Max. digging depth	mm (ft.in)	260 (10.2")	255 (10")	260 (10.2")	265 (10.4")
		[290 (11.4")]	[365 (1'2")]	[290 (11.4")]	[365 (1'2")]
SCARIFIER EQUIPMENT:		V-type, 2-stage adjustable		V-type, 2-stage adjustable	
Type					
Weight	kg (lb)	690 (1,520)	565 (1,250)	695 (1,530)	570 (1,260)
B: Digging width	mm (ft.in)	1325 (4'4")	1405 (4'7")	1350 (4'5")	1430 (4'8")
Tooth:					
As-installed	mm (in)	275 × 77 × 25		185 × 50 × 36.3	
Height × width × thickness		(10.8 × 3.0 × 1.0)		(7.3 × 2.0 × 1.4)	
		GD510R*** GD511A***	GD555-3	GD510R*** GD511A***	GD555-3

*: SCARIFIER LOAD: When the scarifier and rear tires support the machine's weight.

***: Including the scarifier bracket weight.

[] : When installing the adjustable type lifting rod



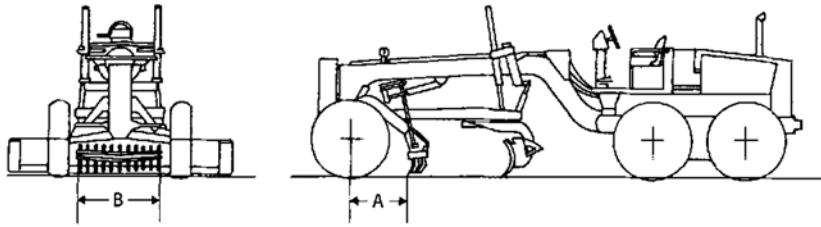
Item		Model	600 SERIES	
NO. OF TEETH			11	
ADDITIONAL WEIGHT:			Standard Teeth	Point Teeth
To operating weight	kg (lb)		+710 (+1,570) [+720 (+1,590)]	+715 (+1,580) [+725 (+1,600)]
To front axle			+615 (+1,360) [+620 (+1,370)]	+615 (+1,360) [+625 (+1,380)]
To rear axle			+95 (+210) [+100 (+220)]	+100 (+220) [+100 (+220)]
DIMENSIONS:				
A: Distance between teeth and center of front tire	mm (ft.in)		970 (3'2")	850 (2'9")
SCARIFIER LOAD*	kg (lb)		5055 ~ 5125 (11,140 ~ 11,300)	4753 ~ 5435 (10,480 ~ 11,980)
SCARIFIER RANGE:				
Digging angle	degree		63 ~ 76	53 ~ 66
Max. lift above ground	mm (ft.in)		320 (1'1")	300 (1')
Max. digging depth	mm (ft.in)		270 (10.6")	270 (10.6")
SCARIFIER EQUIPMENT:				
Type			V-type, 2-stage adjustable	V-type, 2-stage adjustable
Weight	kg (lb)		710 (1,570)	715 (1,580)
B: Digging width	mm (ft.in)		1325 (4'4")	1350 (4'5")
Tooth:				
As-installed	mm (in)		275 × 77 × 25	185 × 50 × 36.3
Height × width × thickness			(10.8" × 3.0" × 1.0")	(7.3" × 2.0" × 1.4")
APPLICABLE MODEL			GD611A*** GD661A***	GD611A*** GD661A***

Item		Model	600 SERIES	
NO. OF TEETH			11	
ADDITIONAL WEIGHT:			Standard Teeth	Point Teeth
To operating weight	kg (lb)		+640 (+1,410) [+650 (+1,430)]	+645 (+1,420) [+655 (+1,440)]
To front axle			+535 (1,180) [+545 (+1,200)]	+545 (1,200) [+555 (+1,220)]
To rear axle			+105 (+230) [+105 (+230)]	+100 (+220) [+100 (+220)]
DIMENSIONS:				
A: Distance between teeth and center of front tire	mm (ft.in)		980 (3'3")	935 (3'1")
SCARIFIER LOAD*	kg (lb)		5670 (12,500)	5635 (12,420)
SCARIFIER RANGE:				
Digging angle	degree		62 ~ 77	52 ~ 68
Max. lift above ground	mm (ft.in)		370 (1'3")	340 (1'1")
Max. digging depth	mm (ft.in)		245 (9.6") [345 (1'2")]	250 (9.8") [345 (1'2")]
SCARIFIER EQUIPMENT:				
Type			V-type, 2-stage adjustable	V-type, 2-stage adjustable
Weight	kg (lb)		640 (1,410)	645 (1,420)
B: Digging width	mm (ft.in)		1405 (4'7")	1430 (4'8")
Tooth:				
As-installed	mm (in)		275 × 77 × 25	185 × 50 × 36.3
Height × width × thickness			(10.8" × 3.0" × 1.0")	(7.3" × 2.0" × 1.4")
APPLICABLE MODEL			GD655-3A, GD675-3A	GD655-3A, GD675-3A

*: SCARIFIER LOAD: When the scarifier and rear tires support the machine's weight.

***: Including the scarifier bracket weight.

[] : When installing the adjustable type lifting rod.

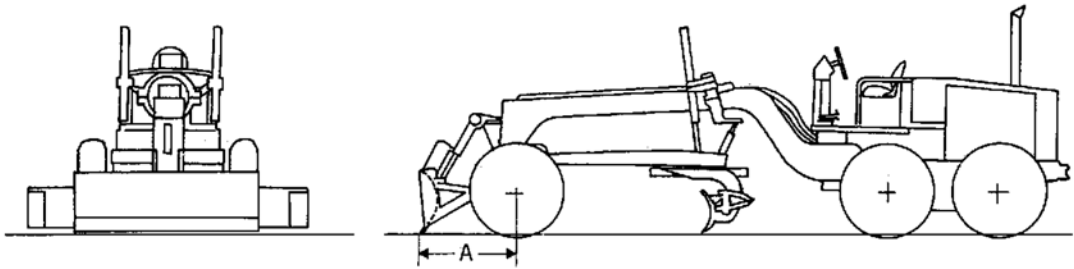


Item		Model	GD705A-4	
NO. OF TEETH			11	
ADDITIONAL WEIGHT:			Standard Teeth	Point Teeth
To operating weight	kg (lb)		+1040 (+2,290)	+1050 (+2,310)
To front axle			+880 (+1,940)	+890 (+1,960)
To rear axle			+160 (+350)	+160 (+350)
DIMENSIONS:				
A: Distance between teeth and center of front tire	mm (ft.in)		890 (2'11')	830 (2'9")
SCARIFIER LOAD*	kg (lb)		6690 (14,750)	6630 (14,620)
SCARIFIER RANGE:				
Digging angle	degree		54~67.5	49~63
Max. lift above ground	mm (ft.in)		630 (2'1")	610 (2')
Max. digging depth	mm (ft.in)		350 (1'2")	350 (1'2")
SCARIFIER EQUIPMENT:				
Type			V-type, 2-stage adjustable	V-type, 2-stage adjustable
Weight	kg (lb)		1040 (2,290)	1050 (2,310)
B: Digging width	mm (ft.in)		1325 (4'4")	1350 (4'5")
Tooth:				
As-installed			265 × 77 × 25	185 × 50 × 36.3
Height × width × thickness	mm (in)		(10.4 × 3.0 × 1.0)	(7.3 × 2.0 × 1.4)
APPLICABLE MODEL			GD705A	GD705A

*: SCARIFIER LOAD: When the scarifier and rear tires support the machine's weight.
 [] : When installing the adjustable type lifting rod.

Front Dozer Blade Specifications

MOTOR GRADERS



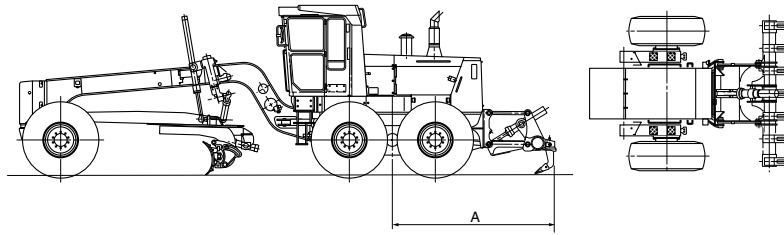
Item		Model	GD500 SERIES		GD600 SERIES	
ADDITIONAL WEIGHT: To operating weight To front axle To rear axle	kg (lb)		+610 (+1,340)	+405 (+890)	+405 (+890)	
			+730 (+1,610)	+500 (+1,100)	+500 (+1,100)	
			-120 (-260)	-95 (-210)	-95 (-210)	
ADDITIONAL OVERALL LENGTH: A: Distance between blade edge and center of front tire	mm (ft.in)		1380 (4'6")		1435 (4'8")	1455 (4'9")
BLADE RANGE: Digging angle Max. lift above ground Max. drop below ground	degree mm (ft.in) mm (ft.in)		54.5		52.7	
			545 (1'9")		510 (1'8")	
			165 (6.5")		190 (7.5")	
BLADE EQUIPMENT: Type Weight Length × height	kg (lb) mm (ft.in)		Front arc, box section type hydraulically controlled			
			826 (1,820)			
			2524 × 850 (8'3" × 2'9")			
APPLICABLE MODEL			GD510R	GD511A	GD611A	GD661A

Item		Model	GD705A-4
ADDITIONAL WEIGHT: To operating weight To front axle To rear axle	kg (lb)		+970 (+2,140)
			+1100 (+2,450)
			(140 (-310))
ADDITIONAL OVERALL LENGTH: A: Distance between blade edge and center of front tire	mm (ft.in)		1610 (5'3")
BLADE RANGE: Digging angle Max. lift above ground Max. drop below ground	degree mm (ft.in) mm (ft.in)		55
			555 (1'10")
			110 (4.3")
BLADE EQUIPMENT: Type Weight Length × height	kg (lb) mm (ft.in)		Front arc, box section type hydraulically controlled
			910 (2,010)
			2500 × 850 (8'2" × 2'9")
APPLICABLE MODEL			GD705A

*: As the front counterweight is removed when installing the front blade, "Additional weight" differs from "Blade weight".

Rear Mounted Ripper Specifications

MOTOR GRADERS



Item		Model	GD500 SERIES	GD600 SERIES
ADDITIONAL WEIGHT: To operating weight To front axle To rear axle	kg (lb)		+1225 (+2,700)	+1745 (+3,850)
			+465 (+1,030)	+645 (+1410)
			+760 (+1,680)	+1100 (+2,450)
ADDITIONAL OVERALL LENGTH: A: Distance between ripper end and center of tandem wheel	mm (ft.in)		2900 (9'6")	3040 (10'0")
RIPPER RANGE: Cutting angle Max. lift above ground Max. digging depth	degree		66	38
	mm (ft.in)		700 (2'4")	540 (1'9")
	mm (ft.in)		320 (1'1")	450 (1'6")
RIPPER EQUIPMENT: Type Weight Beam length Shanks: No. of shanks/Pitch Teeth point type			Tool bar type, hydraulically controlled	Parallerogram type, hydraulically controlled
	kg (lb)		640 (1,410)	945 (2,080)
	mm (ft.in)		1958 (6'5")	2303 (7'7")
	mm (ft.in)		3/900 (2'11")	3/1068 (3'6")
			5/450 (1'6")	5/534 (1'9")
			Replaceable	Replaceable
APPLICABLE MODEL			GD555-3A	GD675-3A, GD655-3A

Item		Model	GD705A-4	GD825A-2
ADDITIONAL WEIGHT: To operating weight To front axle To rear axle	kg (lb)		+2080 (+4,590)	+2584 (+5,700)
			+180 (+400)	-37 (-82)
			+1900 (+4,190)	+2621 (+5,780)
ADDITIONAL OVERALL LENGTH: A: Distance between ripper end and center of tandem wheel	mm (ft.in)		3372 (11'1")	3490 (11'5")
RIPPER RANGE: Cutting angle Max. lift above ground Max. digging depth	degree		38	42
	mm (ft.in)		600 (2')	675 (2'3")
	mm (ft.in)		380 (1'3")	480 (1'7")
RIPPER EQUIPMENT: Type Weight Beam length Shanks: No. of shanks/Pitch Teeth point type			Parallerogram type hydraulically controlled	Parallerogram type hydraulically controlled
	kg (lb)		1410 (3,110)	2014 (4,440)
	mm (ft.in)		2740 (9')	2064 (10'1")
	mm (ft.in)		3/1275 (4'2")	3/1425 (4'8")
			7/425 (1'5")	7/475 (1'7")
			Replaceable	Replaceable
APPLICABLE MODEL			GD705A	GD825A

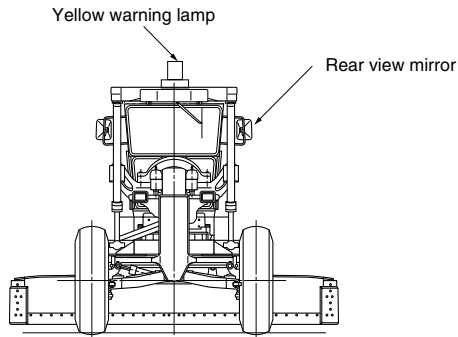
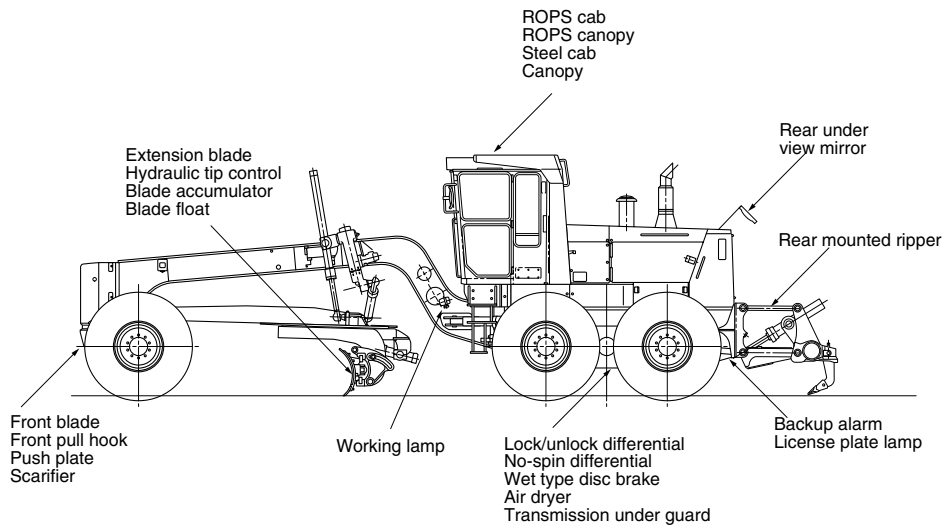
Item Model	Weight kg (lb)*					
	Canvas canopy	Steel cab	ROPS canopy		ROPS cab	
			Low profile	Full height	Low profile	Full height
GD511A-1	43 (95)	310 (680)	—	550 (1,210)	—	830 (1,830)
GD555-3A	—	—	—	500 (1,100)	730 (1,610)	820 (1,810)
GD611A-1	43 (95)	310 (680)	—	550 (1,210)	—	830 (1,830)
GD655-3A	—	—	—	500 (1,100)	730 (1,610)	820 (1,810)
GD675-3A	—	—	—	500 (1,100)	730 (1,610)	820 (1,810)
GD661A-1	43 (95)	310 (680)	—	550 (1,210)	—	830 (1,830)
GD705A-4	93 (205)	350 (770)	—	540 (1,190)	—	807 (1,780)
GD825A-2	—	—	—	—	1,000 (2,205)	—

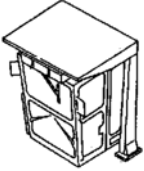
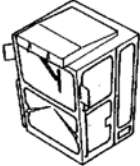
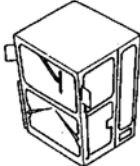
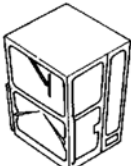
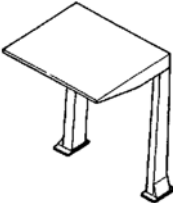

* With ROPS brackets

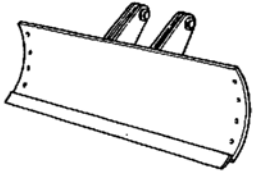
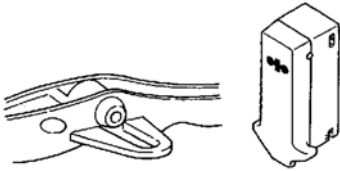
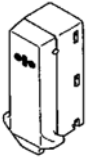
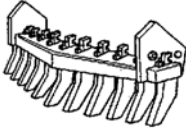
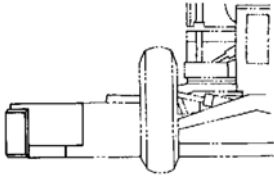
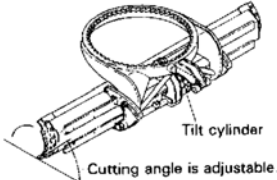
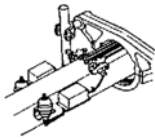
Size	Code	Characteristics	16°C (60°F)	27°C (80°F)	38°C (100°F)	49°C (120°F)	Applicable models
13.00-24-8PR with tube	G-2	GP	72	67	62	56	<u>GD511A</u> , <u>GD521A</u>
13.00-24-10PR with tube	G-2	GP	72	67	62	56	GD511A , <u>GD611A</u> , <u>GD661A</u> GD521A , <u>GD523A</u>
13.00-24-10PR Tubeless	G-2	GP	72	67	62	56	GD511A , <u>GD555-3A</u> , GD611A GD521A , GD623A
13.00-24-12PR Tubeless	G-2	GP	72	67	62	56	<u>GD555-3C</u> , GD521A , GD623A
13.00-24-12PR with tube	G-2	GP	72	67	62	56	GD511A , GD611A , GD521A , GD623A
13.00-24-12PR Tubeless	G-2	GP	72	67	62	56	GD511A , GD555-3A , GD611A , GD661A , GD521A , GD623A
14.00-24-10PR with tube	G-2	GP	88	81	75	68	GD511A , GD611A , GD661A , GD521A
14.00-24-10PR Tubeless	G-2	GP	88	81	75	68	GD511A , <u>GD655-3A</u> , GD611A , GD661A , GD521A
14.00-24-10PR Tubeless	G-2	GP	88	81	75	68	<u>GD655-3E0</u> , GD521A
14.00-24-12PR with tube	G-2	GP	88	81	75	68	GD511A , GD611A , GD521A , GD623A
14.00-24-12PR Tubeless	G-2	GP	88	81	75	68	GD511A , GD611A , GD655-3A , GD661A , <u>GD675-3A</u> , <u>GD675-3E0</u> <u>GD555-5</u> , <u>GD655-5</u>
15.50-25-12PR with tube	G-2	GP	52	48	45	42	GD511A , GD611A , GD661A , GD521A
15.50-25-12PR Tubeless	G-2	GP	52	48	45	42	GD511A , GD611A , GD661A , GD555C , GD521A , GD623A
16.00-24-12PR with tube	G-2	GP	115	107	100	93	<u>GD705A</u>
16.00-24-12PR Tubeless	G-2	GP	115	107	100	93	GD705A
17.50-25-12PR with tube	G-2	GP	63	59	55	51	
18.00-25-12PR with tube	G-3	GP	103	97	90	83	GD825A
18.00-25-12PR Tubeless	G-3	GP	103	97	90	83	
20.50-25-12PR Tubeless	G-2	GP	86	81	75	69	GD705A
23.50-25-12PR Tubeless	G-3	GP	80	75	70	65	<u>GD825A</u>

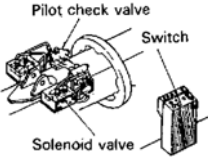
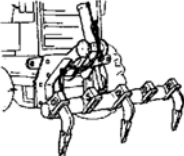
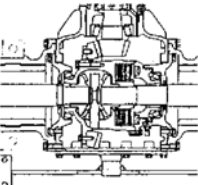
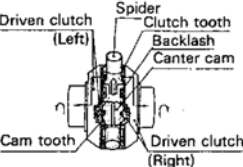
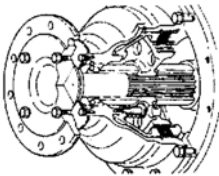
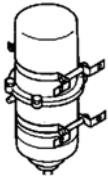
 : Standard tire

* : USA version



Description	Features
<p>ROPS (Roll Over Protective Structure) cab</p> 	<p>The combination of ROPS and a steel cab ensures safety in places where there is danger of the machine turning over and to protect the operator from wind, rain, cold, sand and sun. Low profile and full height cabs are available. Full height ROPS cab is 90 mm (3.5") higher than the low profile cab.</p>
<p>Deluxe steel cab (Type A)</p> 	<p>Consisting of a steel framework with glass doors, windshield and windows, it is completely enclosed and lined with noise - absorbing materials. (This cab is available for GD825A only.)</p>
<p>Standard steel cab (Type B)</p> 	<p>It consists of a steel framework with glass doors, windshield and windows. (This cab is available for all models excluding GD825A).</p>
<p>Simple steel cab (Type C)</p> 	<p>It consists of a steel framework with glass doors, windshield and windows. Upper front glass is fixed to cab frame. (This cab is available for all models excluding GD825A).</p>
<p>ROPS canopy</p> 	<p>This ensures safety in places where there is danger of the machine turning over and to protect the operator from the sun.</p>
<p>Canvas canopy, Steel canopy</p> 	<p>The simple steel frame is topped with a canvas canopy. This protects the operator from the sun.</p>

Description	Features
<p>Front blade</p> 	<p>It is an indispensable work tool for volume push - carry operations and for facilitating difficult spreading jobs involving large heaps of slabby or rocky materials unloaded from dump trucks.</p>
<p>Front pull hook</p> 	<p>Hook mounted front of the machine for towing. There are two kind of front hooks.</p> <ul style="list-style-type: none"> • Front weight with nails. • U - shape bracket welded on front axle. <p>If front attachments (for example front blade etc), are equipped, this hook is not available.</p>
<p>Push plate</p> 	<p>This is used for pushing trees down or pushing machine up in muddy terrain. This is used also as a counterweight to prevent the front wheels from coming off the ground during ripping operations.</p>
<p>Scarifier</p> 	<p>This attachment digs up hard ground, like asphalt, old pavement and frozen surfaces cannot be removed by the blade. The number of teeth used depends upon the ground hardness. High-strength alloy steel tips can be mounted on the teeth to prevent tooth wear and extend their service for economical performance.</p>
<p>Extension blade</p> 	<p>By extending the blade length on one side or on both sides, a larger operating width is obtained, so the work can be carried out with high efficiency. This can only be used for light duty operations such as leveling soil. It is not possible to carry out bank cutting with extension blade at the bottom.</p>
<p>Hydraulic blade tip control</p>  <p>Tilt cylinder Cutting angle is adjustable.</p>	<p>Adjusts the blade - cutting angle according to ground and travel - speed conditions. The angle is freely controlled with a lever operable from the operator's seat.</p>
<p>Blade accumulator</p> 	<p>To relieve the shock caused by load when using the blade. The load on the blade is kept constant without any need to operate the blade lift lever, so blade operations are easy.</p>

Description	Features
<p>Blade float</p> 	<p>By setting the hydraulic pressure inside the blade lift cylinder to 0, so that only the weight of the blade is applied to the digging surface, operations such as removing grass become easier.</p>
<p>Rear mounted ripper</p> 	<p>This attachment can be used to dig out rocks or hard ground not removable by scarifier. A push plate must be mounted at the same time, and the small front weight must be removed.</p>
<p>Lock / unlock differential gear</p> 	<p>The differential built in the final drive case provides the following precise operations. Excellent leveling even when the machine is turning a corner. Reduced turning radius. Reduced tire wear. By locking the differential, sufficient traction is obtained even in muddy terrain. Lock or unlock are selectable by turning a switch.</p>
<p>Non - spin differential</p> 	<p>Depending on the ground condition, the locking and unlocking are automatically switched. The advantages are the same as for the lock / unlock differential given above.</p>
<p>Wet type disc brake</p> 	<p>The brakes are sealed type, so no water or mud can get in. This ensures stable braking at all times. Oil lubrication means wear is kept to the minimum, so the brakes are maintenance free. The brakes are operated pneumatically, so a small operating effort of brake pedal gives secure braking. There are two brake circuits, so even if one of the air circuits should be damaged, it is still possible to brake the machine.</p>
<p>Air dryer</p> 	<p>The function of the air dryer is to remove the water vapor from the compressed air in the circuit. In this way it protects the components of the equipment and prevents problems in operation in cold areas.</p>
<p>Inspection lamp</p>	<p>This is used for inspection and maintenance at night.</p>
<p>Yellow warning lamp</p>	<p>Signifies that the machine is in operation.</p>
<p>License - plate lamp</p>	<p>Lamp for lighting license plate</p>

SECTION **5B**

VIBRATORY ROLLERS

CONTENTS

Features 5B-2
Specifications 5B-3
Dimensions 5B-4

- **Large Compaction Force:**

The larger centrifugal force allows for a thicker layer compaction, which in turn allows a fewer number of shuttle runs over the surface for reduced operating cost.

- **Articulated Frame for High Mobility:**

The frame articulation provides a small turning radius, making the machine highly mobile even in restricted areas.

- **Easy Compaction on Road Shoulders:**

The frame overhang on both sides allows compaction very close to curbstones or fences.

- **One-Lever Hydrostatic Transmission System:**

The hydrostatic transmission allows directional changes, starts, braking and stop to be achieved with only one lever. Also, it allows travel speed to be controlled to optimum levels to suit operation.

- **Comfortable to Operate:**

A rubber-mounted operator's compartment is designed to reduce vibration for improved operator comfort. The operator seat, sliding fore and aft, provides the optimum driving position for any size operator.

Additionally, full-hydraulic power steering provides light control effort.

- **Economical, Durable Engine:**

The engine, featuring direct injection and troidal combustion chambers, offers proven durability and low fuel consumption. The hydrostatic transmission assures excellent flat torque for very smooth operation.

- **Small Overhang:**

Small overhang of the left side of the machine facilitates quick and smooth compaction work very close to walls, fences, or posts.

- **Large Roll Width and Working Speed:**

Large roller width and working speed allows shorter cycle time for speedy job completion.

- **Low Noise and Vibration:**

Rubber pads for vibrator shaft support, steering wheel support, and operator's compartment suppress vibration before it reached the operator.

- **Sprinkler System:**

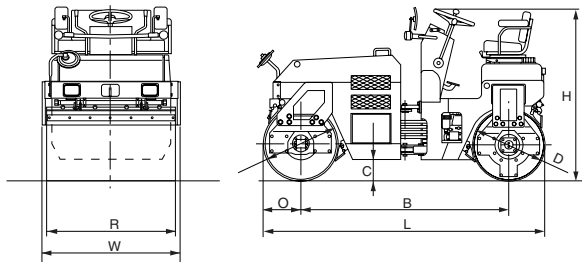
A sprinkler system is essential for asphalt compaction work. Water is spread uniformly over the whole span of the rollers and a large-capacity water tank allows extended operation before refilling.

Specifications

VIBRATORY ROLLERS

Item	Model	JV25CW-6	JV25DW-6	JV40DW-6	JV40CW-6	
WEIGHT (approx.): Operating weight Weight distribution: Front drum Rear drum	kg (lb)	2440 (5,380)	2555 (5,640)	4000 (8,820)	3600 (7,940)	
		1350 (2,980) 1090 (2,400)	1250 (2,760) 1305 (2,890)	2000 (4,410) 2000 (4,410)	2000 (4,410) 1600 (3,530)	
	Horsepower	kW (HP)/RPM	21.1 (28.3)/2300	21.1 (28.3)/2300	21.1 (28.3)/2550	21.1 (28.3)/2550
PERFORMANCE: Travel speed: Forward and reverse 1st 2nd Cycle of vibration: Front drum Rear drum Centrifugal force: Front drum Rear drum Compacting width Turning radius	km/h (MPH)	10.0 (6.2) —	10.0 (6.2) —	8.0 (5.0) 10.5 (6.5)	8.7 (5.4) 12.0 (7.5)	
	CPM	3300 —	3300 3300	3300 3300	3300 —	
	kg (lb)	2100 (4630) —	2100 (4630) 2100 (4630)	2500 (5,510) 2500 (5,510)	2500 (5510) —	
	mm (ft.in) m (ft.in)	1200 (3'11") 3.8 (12'6")	1200 (3'11") 3.8 (12'6")	1300 (4'3") 4.3 (14'1")	1300 (4'3") 4.3 (14'1")	
	ENGINE: Model		KOMATSU 3D88E-6	KOMATSU 3D88E-6	KOMATSU 3D88E-6	KOMATSU 3D88E-6
	No. of cylinders- bore × stroke	mm (in)	3 – 88 × 90 (3.46 × 3.54)	3 – 88 × 90 (3.46 × 3.54)	3 – 88 × 90 (3.46 × 3.54)	3 – 88 × 90 (3.46 × 3.54)
	Piston displacement	ltr. (in ³)	1.642 (100)	1.642 (100)	1.642 (100)	1.642 (100)
TRANSMITTING SYSTEM: Transmission Gearshift Reverser Final drive		HST Stepless Swash-plate type Variable- capacity pump Planetary gear	HST Stepless Swash-plate type Variable- capacity pump Planetary gear	HST Stepless Swash-plate type Variable- capacity pump Planetary gear	HST Stepless Swash-plate type Variable- capacity pump Planetary gear	
	CAPACITY: Fuel tank	ltr. (U.S. Gal)	47 (12.4)	47 (12.4)	47 (12.4)	47 (12.4)

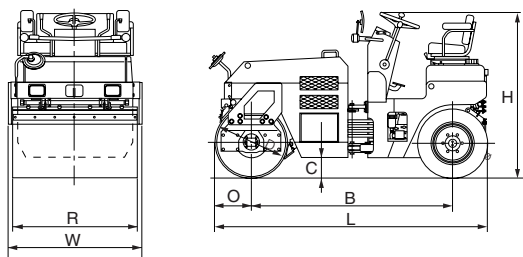
**JV25DW-6
JV40DW-6**



Unit : mm (ft.in)

	JV25DW-6			
W	1290 (4'3")			
L	2625 (8'7")			
H	1570 (5'2")			
R	1200 (3'11")			
B	1950 (6'5")			
O	337.5 (1'1")			
C	280 (11")			
D	675 (2'3")			

**JV25CW-6
JV40CW-6**



Unit : mm (ft.in)

	JV25CW-6	JV40DW-6	JV40CW-6		
W	1290 (4'3")	1390 (4'8")	1390 (4'8")		
L	2623 (8'7")	3100 (10'2")	3105 (10'2")		
H	1570 (5'2")	1730 (5'8")	1730 (5'8")		
R	1200 (3'11")	1300 (4'3")	1300 (4'3")		
B	1950 (6'5")	2300 (7'7")	2300 (7'7")		
O	337.5 (1'1")	400 (1'4")	400 (1'4")		
C	280 (11")	280 (11")	280 (11")		
D	675 (2'3")	800 (2'7")	800 (2'7")		

* : With wide tires

SECTION **5C**

TIRE ROLLERS

CONTENTS

Features 5C-2
Specifications 5C-3

- **High efficiency, high precision rolling operations**

The wide rolling width provides a large hourly production, thereby reducing the project period.

By using wide tires which provide a uniform ground pressure, it is possible to achieve high precision rolling with a high degree of flatness. The amount of overlap is large and uniform, so there are no parts left unrolled, and the rolling operation can be carried out efficiently.

- **Side rolling is also easy**

The front tires are over-banked a large amount from the frame, so it is possible to carry out rolling operations right up to the edge of walls or roads.

- **Optimum water spray, oil spray device installed for operation on paved surfaces**

A job-proven diaphragm type pump is used to spray water. This can give a uniform spray regardless of the slope of the surface being rolled. The capacity of the water tank is a large 220 liters, which enables water spray operations to be carried out for a long period with one tank of water.

- **Stable, low center of gravity design**

The design with a low center of gravity allows a large angle of lean to the left or right, thereby ensuring stable operations even on rough ground.

- **Easy operation and control**

A HST (hydrostatic transmission) is used. Change of direction, braking, and speed control operations can be carried out simply with one FR lever.

The knob on the steering wheel and the power steering system enable steering operations to be carried out with a light touch.

- **High safety brake system**

For normal operations, the FR lever is placed at neutral and the HST brake is used to brake the machine.

The parking brake is a mechanical type.

In emergencies, the foot brake is operated to use the braking force of both the HST brake and the mechanical brake.

- **Comfortable, pleasant operation**

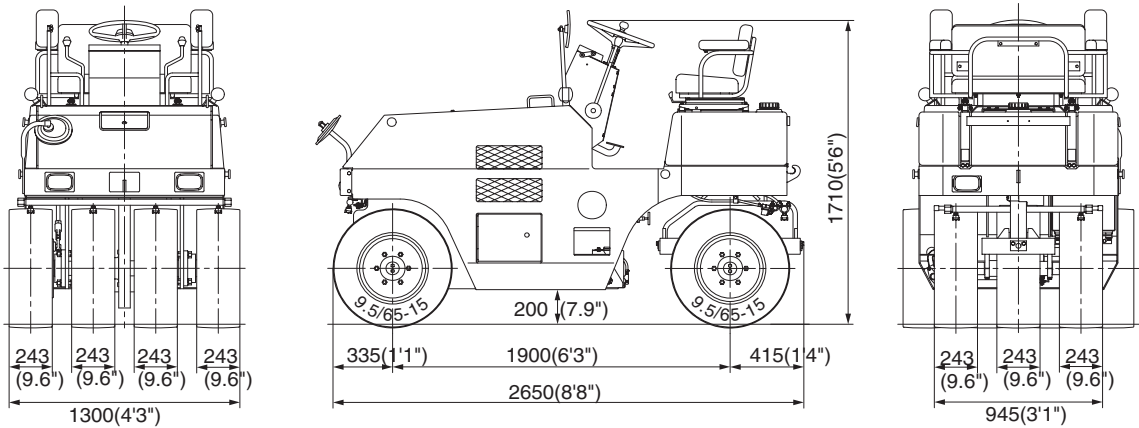
A wide bench seat is used to enable the operator to take the most suitable driving position, so he feels no fatigue even after long hours of operation.

- **Easy maintenance**

The structure of the fully hydraulic system has made the drive system easier, so daily maintenance can be carried out easily.

Item	Model	JW30-2			
WEIGHT (approx.): Operating weight Weight distribution: Front wheel Rear wheel	kg (lb)	3000 (6,610) 1770 (3,900) 1230 (2,710)			
Horsepower	HP (kW)/RPM	21.3 (15.9)/2400			
PERFORMANCE: Travel speed: Forward and reverse Compacting width Side overhang Left Right Turning radius	km/h (MPH) mm (ft.in) mm (in) m (ft.in)	 13.0 (8.1) 1300 (4'3") 90 (3.5") 90 (3.5") 3.8 (12'6")			
ENGINE: Model No. of cylinders- bore × stroke Piston displacement	mm (ft.in) ltr. (in ³)	KOMATSU 3D82AE 3 – 82 × 84 (3.23 × 3.31) 1.33 (81.2)			
TRANSMITTING SYSTEM: Transmission Gearshift Reverser Final drive		HST Stepless Swash-plate type variable- capacity pump Chain type			
Tires Front tire Rear tire		9.50/65-15PR × 4 9.50/65-15PR × 4			
CAPACITY: Fuel tank	ltr. (U.S. Gal)	36 (9.5)			

Dimensions



CONTENTS

INDEX

SECTION **6**

BACKHOE LOADERS

CONTENTS

Features 6-2
Specifications 6-3
Dimensions 6-5

■ Built with proven HydrauMind excavator technology

- Komatsu's exclusive HydrauMind™ hydraulic system is the ultimate combination of power and precision creating one of the most productive backhoe loaders in the world.
 - Closed center Load Sensing System (CLSS)
 - Load Independent Flow Divider (LIFD) hydraulic valve block
 - 2 working modes for backhoe operations
 - Speed-Up function for loader operations

■ Superior lift capacities and breakout forces

- Komatsu's superior lift capacities and breakout forces are achieved exclusively through the HydrauMind hydraulic system.
- The front loader has superb breakout forces and lift capacity due in part to the unique design of the loader.

■ Komatsu's ergonomic innovations create the perfect operating environment.

- We ergonomically designed the controls offering ease of operation, using a hydraulic system that responds smoothly and precisely.
- The cab allows for all-around visibility and is extremely quiet.
- The ergonomically designed suspension seat is very comfortable and fully adjustable.

■ Multi-function loader control lever's cutting edge design allows for fingertip operation of all key loader functions.

- Transmission disconnect
- Auxiliary hydraulic control
- Rear differential lock
- Hydraulic speed up function
- Kick down (PS version only)

■ Low lever efforts allow for PPC-like feel during backhoe operation.

■ All-around visibility, compactness and maximum accessibility for maintenance.

■ Powered by a new generation of Komatsu engines.

The large cubic displacement of engines, ensures high torque and power, and above all, exceptional reliability.

■ Komatsu Backhoe Loaders use service brakes with multiple wet discs and independent circuits operated by two separate pedals.

■ A high steering angle combined with excellent maneuverability result in fast cycle times for the operator.

■ Komatsu's backhoe loaders are equipped with Power Shuttle transmissions and "Power shift" inverters.

■ Komatsu's Electronic Gear Management (EGM) system allows the operator to utilize the Powershift transmission in either manual or automatic mode.

The Komatsu Powershift transmission has been designed to safely allow the operator to perform all functions efficiently. In addition to offering two modes of operation, the Powershift comes standard with:

- Self diagnostics system
- Anti-theft system
- Engagement and automatic disengagement of four wheel drive
- Kick down switch

Specifications

BACKHOE LOADERS

Item		Model	WB93R-5	WB93S-5	WB97R-5	WB97S-5
OPERATING WEIGHT*		kg (lb)	7460 (16,450)	8050 (17,750)	7560 (16,670)	8150 (17,970)
HORSEPOWER:						
SAE J1995:	Gross	kW (HP)/rpm				
ISO9249/SAE J1349:	Net	kW (HP)/rpm	74 (99.2)/2200	74 (99.2)/2200	74 (99.2)/2200	74 (99.2)/2200
LOADER BUCKET CAPACITY*		m ³ (cu.yd)	1.03 (1.35)	1.10 (1.43)	1.03 (1.35)	1.10 (1.43)
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward	Working	1st	6 (3.7)	6 (3.7)	6.5 (4.0)	6.5 (4.0)
		2nd	10 (6.2)	10 (6.2)	11 (6.8)	11 (6.8)
	Travel	3rd	23 (14)	23 (14)	23 (14)	23 (14)
		4th	40 (25)	40 (25)	40 (25)	40 (25)
Reverse	Working	1st	6 (3.7)	6 (3.7)	6.5 (4.0)	6.5 (4.0)
		2nd	10 (6.2)	10 (6.2)	11 (6.8)	11 (6.8)
	Travel	3rd	23 (14)	23 (14)	23 (14)	23 (14)
		4th	40 (25)	40 (25)	40 (25)	40 (25)
Turning radius* (Outside corner of bucket)		mm (ft.in)	4950 (16'3")	4770 (15'8")	4950 (16'3")	4770 (15'8")
DIMENSIONS*:						
Overall length***		mm (ft.in)	5895 (19'4")	5895 (19'4")	5895 (19'4")	5895 (19'4")
Overall width		mm (ft.in)	2320 (7'7")	2420 (7'11")	2320 (7'7")	2320 (7'7")
Overall height**		mm (ft.in)	2750 (9'0")	3005 (9'10")	2750 (9'0")	3005 (9'10")
Wheelbase		mm (ft.in)	2175 (7'2")	2215 (7'3")	2175 (7'2")	2215 (7'3")
Treads (front)		mm (ft.in)	1934 (6'4")	1934 (6'4")	1934 (6'4")	1934 (6'4")
Treads (rear)		mm (ft.in)	1800 (5'11")	1800 (5'11")	1800 (5'11")	1800 (5'11")
Articulation angle (each)		degree	—	—	—	—
ENGINE:						
Model			KOMATSU SAA4D104E-1	KOMATSU SAA4D104E-1	KOMATSU SAA4D104E-1	KOMATSU SAA4D104E-1
No. of cylinders- bore × stroke		mm (in)	4-104 × 132 (4.1 × 5.2)	4-104 × 132 (4.1 × 5.2)	4-104 × 132 (4.1 × 5.2)	4-104 × 132 (4.1 × 5.2)
Piston displacement		ltr. (cu.in)	4.485 (274)	4.485 (274)	4.485 (274)	4.485 (274)
CAPACITY:						
Fuel tank		ltr. (U.S. Gal)	150 (39.6)	150 (39.6)	150 (39.6)	150 (39.6)

Item		Model	WB142-5	WB146-5	WB146PS-5	WB156-5
OPERATING WEIGHT*		kg (lb)	6585 (14,520)	7300 (16,090)	7300 (16,090)	7498 (16,530)
HORSEPOWER:						
SAE J1995:	Gross	kW (HP)/rpm	60 (80)/2200	69 (92)/2200	69 (92)/2200	73.8 (99)/2200
ISO9249/SAE J1349:	Net	kW (HP)/rpm	57 (76)/2200	66 (88)/2200	66 (88)/2200	70.8 (95)/2200
LOADER BUCKET CAPACITY*		m ³ (cu.yd)	0.77 (1.00)	0.95 (1.25)	0.95 (1.25)	0.95 (1.25)
PERFORMANCE:						
Travel speeds:		km/h (MPH)				
Forward	Working	1st	5.2 (3.2)	6.3 (3.9)	6.5 (4.0)	6.3 (3.9)
		2nd	8.5 (5.3)	11.4 (7.1)	12.0 (7.5)	11.4 (7.1)
	Travel	3rd	18.5 (11.5)	21.3 (13.2)	23.0 (14.3)	21.3 (13.2)
		4th	37.0 (23.0)	37.8 (23.5)	40.0 (24.9)	37.8 (23.5)
Reverse	Working	1st	5.2 (3.2)	6.3 (3.9)	6.5 (4.0)	6.3 (3.9)
		2nd	8.5 (5.3)	11.4 (7.1)	12.0 (7.5)	11.4 (7.1)
	Travel	3rd	18.5 (11.5)	21.3 (13.2)	23.0 (14.3)	21.3 (13.2)
		4th	37.0 (23.0)	37.8 (23.5)	—	37.8 (23.5)
Turning radius* (Outside corner of bucket)		mm (ft.in)	—	—	—	—
DIMENSIONS*:						
Overall length***		mm (ft.in)	7060 (23'2")	7432 (24'5")	7432 (24'5")	7504 (24'7")
Overall width		mm (ft.in)	2180 (7'2")	2356 (7'9")	2356 (7'9")	2356 (7'9")
Overall height**		mm (ft.in)	2820 (9'4")	2935 (9'8")	2935 (9'8")	2935 (9'8")
Wheelbase		mm (ft.in)	2175 (7'2")	2175 (7'2")	2175 (7'2")	2175 (7'2")
Treads (front)		mm (ft.in)	1780 (5'10")	1874 (6'2")	1874 (6'2")	1874 (6'2")
Treads (rear)		mm (ft.in)	1680 (5'6")	1800 (5'11")	1800 (5'11")	1800 (5'11")
Articulation angle (each)		degree	—	—	—	—
ENGINE:						
Model			KOMATSU 4D102LE-2	KOMATSU S4D102LE-2	KOMATSU S4D102LE-2	KOMATSU S4D102LE-2
No. of cylinders- bore × stroke		mm (in)	4-102 × 138 (4.0 × 5.4)	4-102 × 138 (4.0 × 5.4)	4-102 × 138 (4.0 × 5.4)	4-102 × 138 (4.0 × 5.4)
Piston displacement		ltr. (cu.in)	4.5 (275)	4.5 (275)	4.5 (275)	4.5 (275)
CAPACITY:						
Fuel tank		ltr. (U.S. Gal)	120 (31.7)	150 (39.6)	150 (39.6)	150 (39.6)

* With standard tires and bucket

*** Transport length

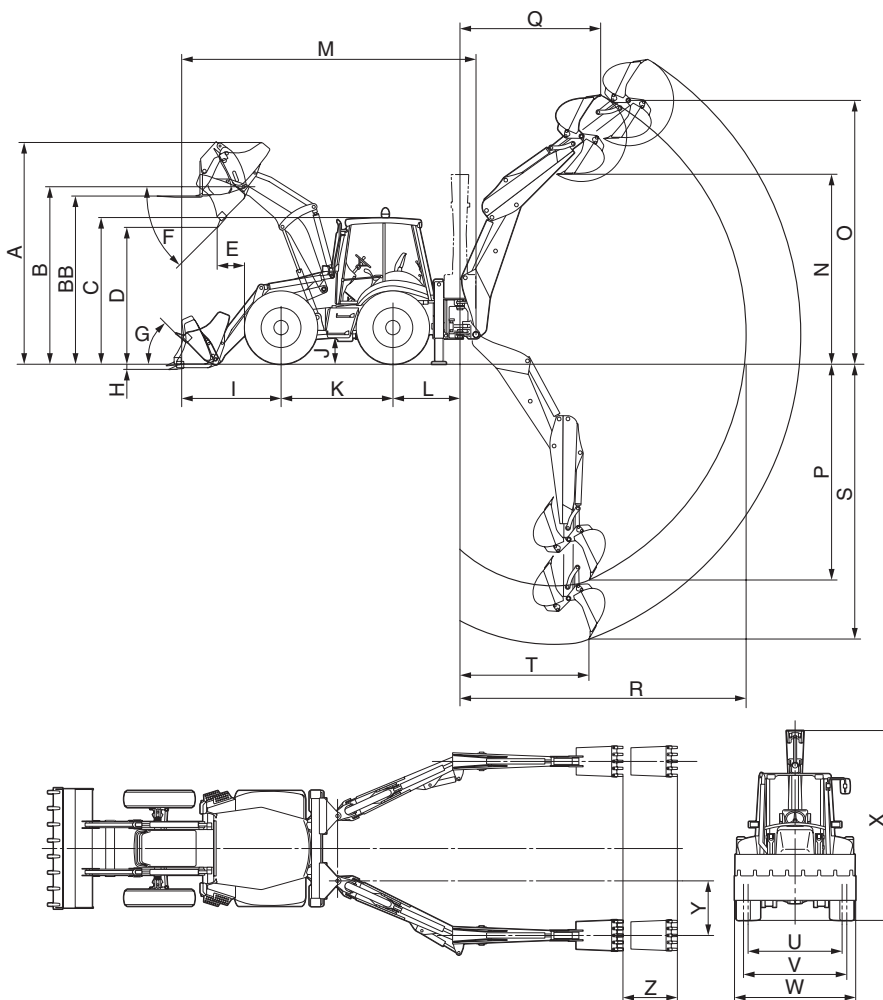
** Height to top of the cab

Item	Model	WB156PS-5			
OPERATING WEIGHT*	kg (lb)	7498 (16,530)			
HORSEPOWER: SAE J1995: Gross ISO9249/SAE J1349: Net LOADER BUCKET CAPACITY*	kW (HP)/rpm kW (HP)/rpm m ³ (cu.yd)	73.8 (99)/2200 70.8 (95)/2200 0.95 (1.25)			
PERFORMANCE:					
Travel speeds:	km/h (MPH)				
Forward Working	1st	6.5 (4.0)			
	2nd	12.0 (7.5)			
Travel	3rd	23.0 (14.3)			
	4th	40.0 (24.9)			
Reverse Working	1st	6.5 (4.0)			
	2nd	12.0 (7.5)			
Travel	3rd	23.0 (14.3)			
	4th	—			
Turning radius* (Outside corner of bucket)	mm (ft.in)	—			
DIMENSIONS*:					
Overall length***	mm (ft.in)	7504 (24'7")			
Overall width	mm (ft.in)	2356 (7'9")			
Overall height**	mm (ft.in)	2935 (9'8")			
Wheelbase	mm (ft.in)	2175 (7'2")			
Treads (front)	mm (ft.in)	1874 (6'2")			
Treads (rear)	mm (ft.in)	1800 (5'11")			
Articulation angle (each)	degree	—			
ENGINE:					
Model		KOMATSU S4D102LE-2			
No. of cylinders- bore × stroke	mm (in)	4-102 × 138 (4.0 × 5.4)			
Piston displacement	ltr. (cu.in)	4.5 (275)			
CAPACITY:					
Fuel tank	ltr. (U.S. Gal)	150 (39.6)			

* With standard tires and bucket

** Height to top of the cab

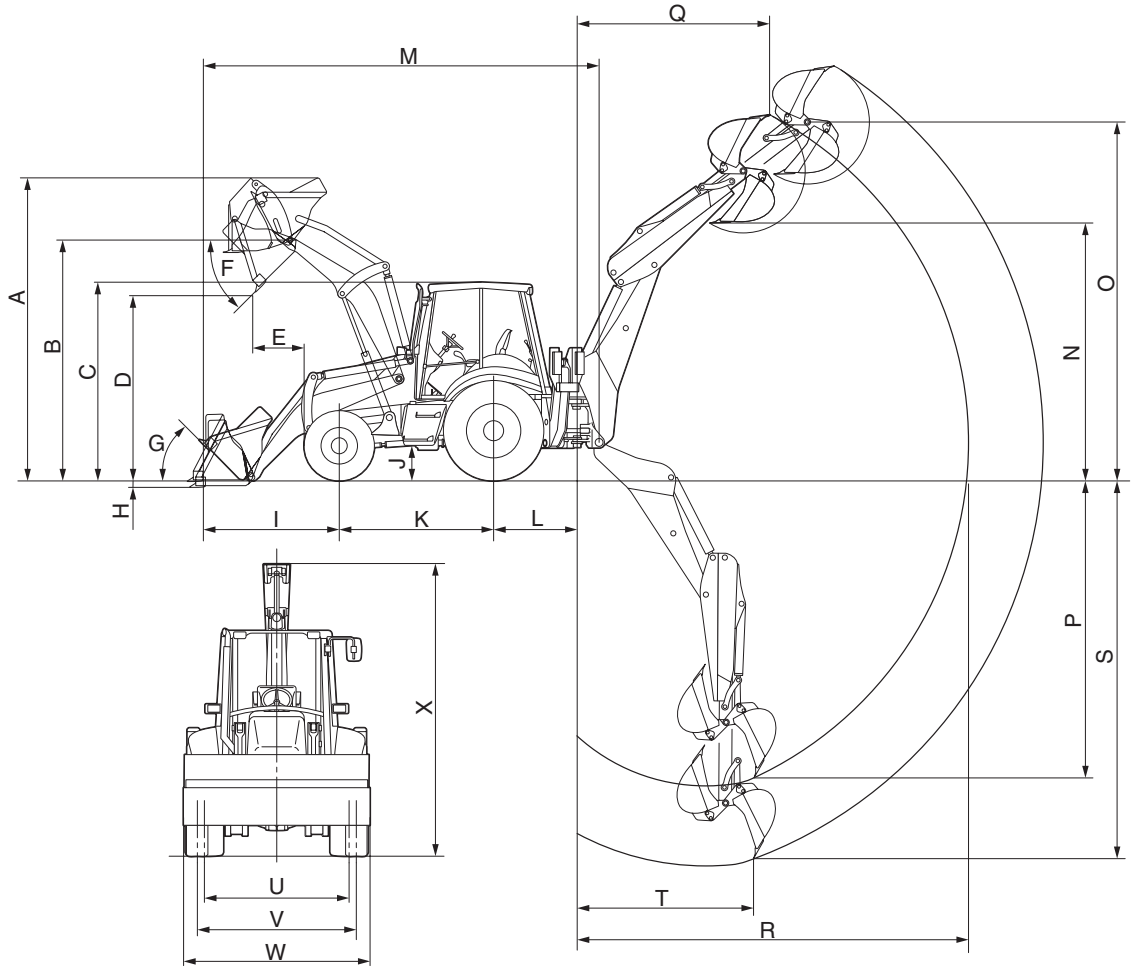
*** Transport length



FVBH0330

	A mm (ft.in)	B mm (ft.in)	BB mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F deg.	G deg.	H mm (ft.in)	I mm (ft.in)	J mm (ft.in)	K mm (ft.in)	L mm (ft.in)
WB93R-5	4290 (14'1")	3375 (11'1")	3175 (10'5")	2750 (9')	2720 (8'11")	750 (2'6")	45	45	130 (5.1")	1930 (6'4")	430 (1'5")	2175 (7'2")	1320 (4'4")
WB93S-5	4390 (14'5")	3530 (11'7")	3215 (10'7")	3005 (9'10")	2840 (9'4")	700 (2'4")	45	45	75 (3")	1930 (6'4")	475 (1'7")	2215 (7'3")	1320 (4'4")
WB97R-5	4290 (14'1")	3375 (11'1")	3175 (10'5")	2750 (9')	2720 (8'11")	750 (2'6")	45	45	130 (5.1")	1930 (6'4")	400 (1'4")	2175 (7'2")	1320 (4'4")
WB97S-5	4390 (14'5")	3530 (11'7")	3215 (10'7")	3005 (9'10")	2840 (9'4")	700 (2'4")	45	45	75 (3")	1930 (6'4")	475 (1'7")	2215 (7'3")	1320 (4'4")

	M mm (ft.in)	N mm (ft.in)	O mm (ft.in)	P mm (ft.in)	Q mm (ft.in)	R mm (ft.in)	S mm (ft.in)	T mm (ft.in)	U mm (ft.in)	V mm (ft.in)	W mm (ft.in)	X mm (ft.in)	Y mm (ft.in)	Z mm (ft.in)
WB93R-5	5895 (19'4")	3760 (12'4")	5800 (19'0")	4540 (14'11")	2830 (9'3")	5750 (18'10")	5020 (16'6")	2320 (7'7")	1800 (5'11")	1934 (6'4")	2320 (7'7")	3710 (12'2")	1080 (3'7")	1140 (3'9")
WB93S-5	5895 (19'4")	3760 (12'4")	5800 (19'0")	4540 (14'11")	2830 (9'3")	5750 (18'10")	5020 (16'6")	2320 (7'7")	1800 (5'11")	1934 (6'4")	2420 (7'11")	3710 (12'2")	605 (2'0")	1140 (3'9")
WB97R-5	5895 (19'4")	4000 (13'1")	6015 (19'9")	4840 (15'11")	3045 (10'0")	6035 (19'10")	5290 (17'4")	2320 (7'7")	1800 (5'11")	1934 (6'4")	2320 (7'7")	3710 (12'2")	605 (2'0")	1240 (4'1")
WB97S-5	5895 (19'4")	4000 (13'1")	6015 (19'9")	4840 (15'11")	3045 (10'0")	6035 (19'10")	5290 (17'4")	2320 (7'7")	1800 (5'11")	1934 (6'4")	2320 (7'7")	3710 (12'2")	605 (2'0")	1240 (4'1")



FVBH0331

	A mm (ft.in)	B mm (ft.in)	C mm (ft.in)	D mm (ft.in)	E mm (ft.in)	F deg.	G deg.	H mm (ft.in)	I mm (ft.in)	J mm (ft.in)	K mm (ft.in)	L mm (ft.in)
WB142-5	4080 (13'5")	3255 (10'8")	2820 (9'4")	2615 (8'7")	910 (3'0")	45	45	100 (4.0")	1900 (6'3")	380 (1'3")	2175 (7'2")	1175 (3'10)
WB146-5 WB146PS -5	4230 (13'11")	3367 (11'1")	2935 (9'8")	2622 (8'7")	750 (2'5")	45	45	138 (5.4")	2023 (6'8")	430 (1'5")	2175 (7'2")	1175 (3'10)
WB156-5 WB156PS -5	4230 (13'11")	3367 (11'1")	2935 (9'8")	2622 (8'7")	750 (2'5")	45	45	138 (5.4")	2023 (6'8")	430 (1'5")	2175 (7'2")	1175 (3'10)

	M mm (ft.in)	N mm (ft.in)	O mm (ft.in)	P mm (ft.in)	Q mm (ft.in)	R mm (ft.in)	S mm (ft.in)	T mm (ft.in)	U mm (ft.in)	V mm (ft.in)	W mm (ft.in)	X mm (ft.in)
WB142-5	7060 (23'2")	3600 (11'10")	5210 (17'1")	4276 (14'0")	2640 (8'8")	5580 (18'4")	4318 (14'2")	2380 (7'10")	1680 (5'6")	1780 (5'10")	2180 (7'2")	3660 (12'0")
WB146-5 WB146PS -5	7432 (24'5")	3676 (12'1")	5319 (17'5")	4370 (14'4")	2828 (9'3")	5742 (18'10")	4423 (14'6")	2320 (7'7")	1800 (5'11")	1874 (6'2")	2356 (7'9")	3676 (12'1")
WB156-5 WB156PS -5	7504 (24'7")	3761 (12'4")	5525 (18'2")	4670 (15'4")	3046 (10'0")	6034 (19'10")	4725 (15'6")	2320 (7'7")	1800 (5'11")	1874 (6'2")	2356 (7'9")	3676 (12'1")

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SECTION **7A**

SKID STEER LOADERS

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- **Hydraulic servo controls**

Easier to use, they require very little effort, while ensuring extremely precise maneuvers.

- **Komatsu CLSS**

The hydraulic system, which automatically combines force and speed, ensures perfect control overall movements.

Double-adjustment travel pumps, with automatic power control device (A. P. C.) and axial piston engines with double travel speed, provide above-standard performance, ensuring exceptional versatility and rapidity.

- **Comfort**

The ease of operation, just two steps to reach the seat, the ergonomic access and the ample space inside the cab assure maximum operating comfort and maximum visibility.

- **Safety**

The wheelbase and axle distance ensure reduced tire wear and balanced weight distribution, for safe operation on any ground. The low profile of the engine hood guarantees excellent visibility on rear part of the machine.

- **Versatility**

The foot accelerator ensures greater control over power during operation.

Ready for use with any equipment, the base version features an auxiliary hydraulic circuit with proportional control.

- **Super Flow version**

The Super Flow system increases the flow of oil available to the equipment, and features a draining system and electrical connections. The joysticks and proportional pedal make it possible to control all the system functions. A second hydraulic circuit is available for equipment that requires simultaneous movements.

- **Easy and quick maintenance**

The simple opening of the engine hood makes refilling and periodical checks easy. In addition, the tilting radiators can be easily reached by simply opening the rear door.

One lock only for the hood and the door, which together enclose and protect all service and refill points.

- Pins with extended greasing intervals (250 hours)

- Battery with charge gauge

- Air filter with safety cartridge

- Removable polyvinyl tank

- See-through gas oil filter

- Environmental-friendly draining systems

- **Tilting cab**

The combined tilting of the cab, engine hood and footboard (patented system) offers complete access to all the components and allows extraordinary maintenance operations to be performed from several positions.

Specifications

SKID STEER LOADERS

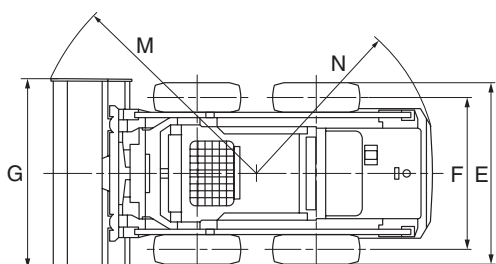
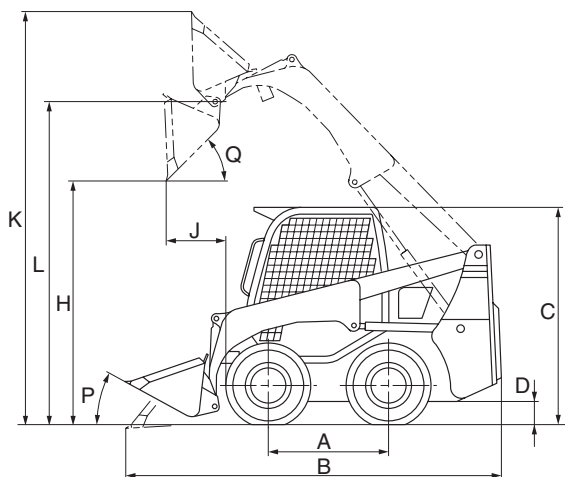
Model		SK510-5	SK714-5	SK815-5	SK818-5
Item					
OPERATING WEIGHT*	kg (lb)	1855 (4,090)	2530 (5,580)	2630 (5,800)	2910 (6,415)
HORSEPOWER: SAE	kW (HP)/rpm	22.5 (30.6)/2800	34.7 (47.2)/2800	34.7 (47.2)/2800	34.7 (47.2)/2800
BUCKET CAPACITY*	m ³ (cu.yd)	0.23 (0.30)	0.35 (0.46)	0.4 (0.52)	0.4 (0.52)
PERFORMANCE:					
Rated operating capacity	kg (lb)	455 (1,000)	650 (1,430)	700 (1,540)	870 (1,920)
Tipping load	kg (lb)	910 (2,010)	1300 (2,870)	1400 (3,090)	1740 (3,840)
Travel speeds:	km/h (MPH)				
Forward Working		10 (6.2)	10.5 (6.5)	10.5 (6.5)	10 (6.2)
Travel			16 (9.9)	16 (9.9)	16 (9.9)
Reverse Working		10 (6.2)	10.5 (6.5)	10.5 (6.5)	10 (6.2)
Travel			16 (9.9)	16 (9.9)	16 (9.9)
Turning radius* (Outside corner of bucket)	mm (ft.in)	1697 (5'7")	2100 (6'11")	2150 (7'11")	2150 (7')
DIMENSIONS*:					
Overall length	mm (ft.in)	2917 (9'7")	3200 (10'6")	3350 (11'0")	3350 (11'0")
Overall width	mm (ft.in)	1260 (4'2")	1550 (5'1")	1730 (5'8")	1730 (5'8")
Overall height**	mm (ft.in)	1924 (6'4")	1960 (6'5")	1960 (6'5")	2000 (6'7")
Wheelbase	mm (ft.in)	823 (2'8")	950 (3'1")	1050 (3'5")	1050 (3'5")
Treads (front and rear)	mm (ft.in)	1010 (3'4")	1250 (4'1")	1380 (4'6")	1385 (4'7")
ENGINE:					
Model		KOMATSU 3D84E	KOMATSU 4D88E	KOMATSU 4D88E	KOMATSU 4D88E
No. of cylinders- bore × stroke	mm (in)	3-84 × 86 (3.3 × 3.4)	3-88 × 90 (3.5 × 3.5)	3-88 × 90 (3.5 × 3.5)	4-88 × 90 (3.46 × 3.54)
Piston displacement	ltr. (cu.in)	1.43 (87)	2.19 (134)	2.19 (134)	2.19 (133.6)
CAPACITY:					
Fuel tank	ltr. (U.S. Gal)	38.5 (10.2)	53 (14.0)	53 (14.0)	47 (12.4)

Model		SK820-5	SK1020-5	SK1020-5***	SK1026-5
Item					
OPERATING WEIGHT*	kg (lb)	2940 (6,480)	3420 (7,540)	3435 (7,573)	3600 (7,940)
HORSEPOWER: SAE	kW (HP)/rpm	38.9 (52.2)/2800	51.8 (69.5)/2500	52.2 (70)/2500	62 (83)/2500
BUCKET CAPACITY*	m ³ (cu.yd)	0.4 (0.52)	0.45 (0.59)	0.47 (0.61)	0.45 (0.59)
PERFORMANCE:					
Rated operating capacity	kg (lb)	900 (1,980)	905 (2,000)	907 (2,000)	1200 (2,650)
Tipping load	kg (lb)	1800 (3,970)	1810 (3,990)	1814 (4,000)	2400 (5,290)
Travel speeds:	km/h (MPH)				
Forward Working		10.5 (6.5)	10 (6.2)	10 (6.2)	
Travel		16 (9.9)	16 (9.9)	16 (10)	16 (9.9)
Reverse Working		10.5 (6.5)	10 (6.2)	10 (6.2)	
Travel		16 (9.9)	16 (9.9)	16 (10)	16 (9.9)
Turning radius* (Outside corner of bucket)	mm (ft.in)	2015 (6'7")	2155 (7')	2265 (7'5")	2000 (6'7")
DIMENSIONS*:					
Overall length	mm (ft.in)	3350 (11'0")	3550 (11'8")	3680 (12'1")	3550 (11'8")
Overall width	mm (ft.in)	1730 (5'8")	1880 (6'2")	1880 (6'2")	1880 (6'2")
Overall height**	mm (ft.in)	2000 (6'7")	2080 (6'10")	2080 (6'10")	2085 (6'10")
Wheelbase	mm (ft.in)	1050 (3'5")	1160 (3'10")	1160 (3'10")	1160 (3'10")
Treads (front and rear)	mm (ft.in)	1385 (4'7")	1500 (4'11")	1500 (4'11")	1530 (5'0")
ENGINE:					
Model		KOMATSU S4D84E	KOMATSU 4D98E	KOMATSU 4D98E	KOMATSU 4D98E
No. of cylinders- bore × stroke	mm (in)	4-84 × 90 (3.31 × 3.54)	4-98 × 110 (3.85 × 4.33)	4-98 × 110 (3.85 × 4.33)	4-98 × 110 (3.85 × 4.33)
Piston displacement	ltr. (cu.in)	2.0 (122)	3.32 (203)	3.32 (203)	3.32 (203)
CAPACITY:					
Fuel tank	ltr. (U.S. Gal)	53 (14.0)	73 (19.3)	73 (19.3)	73 (19.3)

* With standard tires and bucket

** Height to top of the cab

*** USA source



FVBH0216

Item		Model	SK510-5	SK714-5	SK815-5	SK818-5
A: Wheel base	mm (ft.in)		823 (2'8")	950 (3'1")	1050 (3'5")	1050 (3'5")
B: Overall length	mm (ft.in)		2917 (9'7")	3200 (10'6")	3350 (11'0")	3350 (11')
C: Overall height	mm (ft.in)		1924 (6'4")	1960 (6'5")	1960 (6'5")	2000 (6'6")
D: Ground clearance	mm (in)		184 (7.2")	210 (8.3")	210 (8.3")	210 (8.26")
E: Width over tires	mm (ft.in)		1235 (4'1")	1520 (5'0")	1650 (5'5")	1660 (5'5")
F: Tread	mm (ft.in)		1010 (3'4")	1250 (4'1")	1380 (4'6")	1385 (4'5")
G: Bucket width	mm (ft.in)		1260 (4'2")	1550 (5'1")	1730 (5'8")	1730 (5'7")
H: Dumping clearance, max. height	mm (ft.in)		2082 (6'10")	2140 (7'0")	2190 (7'2")	2280 (7'5")
J: Reach at max. height	mm (ft.in)		408 (1'4")	510 (1'8")	530 (1'9")	775 (2'6")
K: Operating height (fully raised)	mm (ft.in)		3483 (11'5")	3630 (11'11")	3730 (12'3")	3820 (12'6")
L: Hinge pin height, max. height	mm (ft.in)		2707 (8'11")	2850 (9'4")	2920 (9'7")	3000 (9'10")
M: Turning radius at bucket corner	mm (ft.in)		1697 (5'7")	2100 (6'11")	2150 (7'1")	2015 (6'7")
N: Turning radius at rear tail corner	mm (ft.in)		1408 (4'7")	1340 (4'5")	1460 (4'9")	1665 (5'5")
P: Tilt back angle, carry position	degree		37	30	30	30
Q: Dump angle, max. height	degree		38	45	45	45

Item		Model	SK820-5	SK1020-5	SK1020-5**	SK1026-5
A: Wheel base	mm (ft.in)		1050 (3'5")	1160 (3'9")	1160 (3'9")	1162 (3'10")
B: Overall length	mm (ft.in)		3480 (11'5")	3550 (11'7")	3680 (12'1")	3547 (11'8")
C: Overall height	mm (ft.in)		2001 (6'7")	2080 (6'10")	2080 (6'10")	2082 (6'10")
D: Ground clearance	mm (in)		210 (8.26")	240 (9.44")	210 (8.27")	237 (9.33")
E: Width over tires	mm (ft.in)		1658 (5'5")	1840 (6')	1830 (6'0")	1836 (6'0")
F: Tread	mm (ft.in)		1383 (4'6")	1500 (4'9")	1500 (4'9")	1530 (5'0")
G: Bucket width	mm (ft.in)		1730 (5'8")	1880 (6'2")	1880 (6'2")	1880 (6'2")
H: Dumping clearance, max. height	mm (ft.in)		2190 (7'2")	2390 (7'10")	2300 (7'7")	2554 (8'5")
J: Reach at max. height	mm (ft.in)		660 (2'2")	590 (2')	690 (2'3")	842 (2'9")
K: Operating height (fully raised)	mm (ft.in)		3910 (12'10")	3965 (13')	4100 (13'5")	4115 (13'6")
L: Hinge pin height, max. height	mm (ft.in)		3000 (9'10")	3100 (10'1")	3100 (10'2")	3261 (10'8")
M: Turning radius at bucket corner	mm (ft.in)		2016 (6'7")	2150 (7')	2265 (7'5")	1998 (6'7")
N: Turning radius at rear tail corner	mm (ft.in)		1667 (5'6")	1650 (5'5")	1650 (5'5")	1998 (6'7")
P: Tilt back angle, carry position	degree		30	33	30	28.6
Q: Dump angle, max. height	degree		45	41	45	40.4

* Narrow version
 ** USA source

SECTION **7B**

**COMPACT TRACK
LOADERS**

CONTENTS

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Dimensions 7B-4

- **Hydraulic Servo-Controls**

The PPC servo-controls make the machines extremely user friendly: natural movements and unique efficiency come with minimum effort. The right joystick controls the arm and the bucket, while the left one controls the transmission.

- **Versatility**

Thanks to the wide supporting surface the tracks offer, the CKs can efficiently work on any type of soil, including mud and snow, thus minimizing downtime related to bad weather. Furthermore, as the ground pressure is much lower than the one characterizing the wheeled versions, these machines can work at their best even on yielding soil, such as sand.

- **The Tracks**

The tracks ensure exceptional stability and traction force on all types of soil. The wide base gives excellent stability to the machine and strongly reduces vibrations and increases operator comfort. The hard steel ensures high resistance to all parts which are most subject to wear, such as gears, rollers and idlers. At the same time, a bigger section and multiple rubber covered steel reinforcements ensure extended duration to the shoes.

- **Two Speeds**

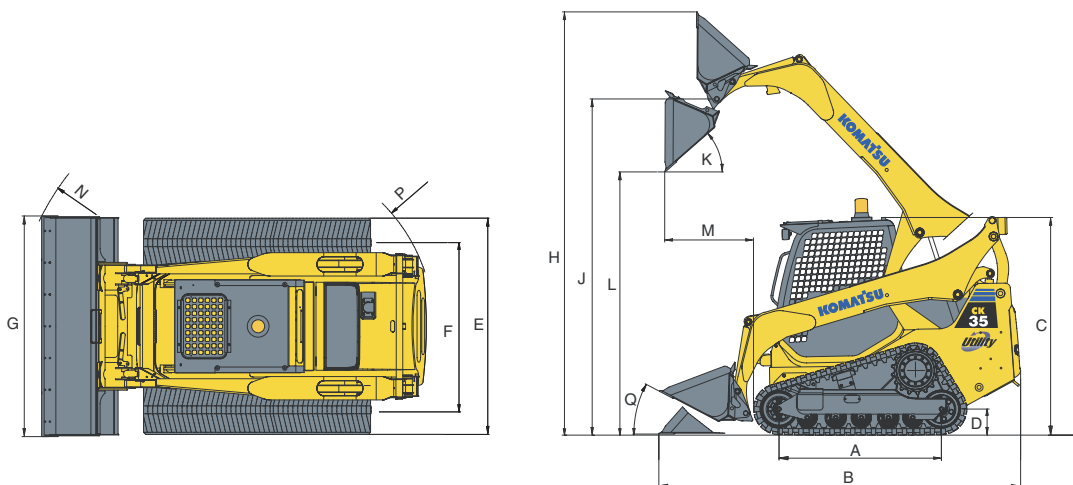
The second speed, which is standard, pushes the up to a 12 km/h top speed and drastically reduces the transfer times within the yard, thus increasing the productivity. The first speed is used while digging or climbing, whenever maximum drawbar pull is required.



Item	Model	CK20-1	CK25-1	CK30-1	CK35-1
OPERATING WEIGHT*	kg (lb)	3750 (7,870)	3820 (8,420)	4290 (9,460)	4560 (10,050)
HORSEPOWER: SAE	kW (HP)/rpm	51.8 (69.5)/2500	51.8 (69.5)/2500	62 (84)/2500	62 (84)/2500
BUCKET CAPACITY*	m ³ (cu.yd)	0.4 (0.52)	0.4 (0.52)	0.45 (0.59)	0.45 (0.59)
PERFORMANCE:					
Rated operating capacity	kg (lb)	930 (2,050)	1000 (2,200)	1130 (2,490)	1470 (3,240)
Tipping load	kg (lb)	2660 (5,860)	2860 (6,310)	3220 (7,100)	4200 (9,260)
Travel speeds:	km/h (MPH)				
Forward Working					
Travel		12.0 (7.5)	12.0 (7.5)	12.0 (7.5)	12.0 (7.5)
Reverse Working					
Travel		12.0 (7.7)	12.0 (7.7)	12.0 (7.7)	12.0 (7.7)
Turning radius* (Outside corner of bucket)	mm (ft.in)	2100 (6'11") 0.37 (5.26)	2100 (6'11") 0.37 (5.26)	2255 (7'5") 0.32 (4.55)	2255 (7'5") 0.32 (4.55)
DIMENSIONS*:					
Overall length	mm (ft.in)	3375 (11'1")	3375 (11'1")	3550 (11'8")	3550 (11'8")
Overall width	mm (ft.in)	1670 (5'6")	1670 (5'6")	1990 (6'6")	1990 (6'6")
Overall height**	mm (ft.in)	2070 (6'10")	2070 (6'10")	2130 (7'0")	2130 (7'0")
Length of track on ground	mm (ft.in)	1450 (4'9")	1450 (4'9")	1610 (5'3")	1610 (5'3")
Track gauge	mm (ft.in)	1350 (4'5")	1350 (4'5")	1540 (5'1")	1540 (5'1")
Shoe width	mm (in)	320 (12.6)	320 (12.6)	450 (17.7)	450 (17.7)
ENGINE:					
Model		KOMATSU 4D98E-2	KOMATSU 4D98E-2	KOMATSU S4D98E-2	KOMATSU S4D98E-2
No. of cylinders- bore × stroke	mm (in)	4-98 × 110 (3.85 × 4.33)	4-98 × 110 (3.85 × 4.33)	4-98 × 110 (3.85 × 4.33)	4-98 × 110 (3.85 × 4.33)
Piston displacement	ltr. (cu.in)	3.32 (203)	3.32 (203)	3.32 (203)	3.32 (203)
CAPACITY:					
Fuel tank	ltr. (U.S. Gal)	64 (16.9)	64 (16.9)	73 (19.3)	73 (19.3)

* With standard shoe and bucket

** Height to top of the cab



Item	Model	CK20-1	CK25-1	CK30-1	CK35-1
A: Length of track on ground	mm (ft.in)	1450 (4'9")	1450 (4'9")	1610 (5'3")	1610 (5'3")
B: Overall length	mm (ft.in)	3375 (11'1")	3375 (11'1")	3550 (11'8")	3550 (11'8")
C: Overall height	mm (ft.in)	2070 (6'1")	2070 (6'1")	2130 (7'0")	2130 (7'0")
D: Ground clearance	mm (in)	240 (9.4")	250 (9.8")	255 (10.0")	255 (10.0")
E: Width over track	mm (ft.in)	1670 (5'6")	1670 (5'6")	1990 (6'6")	1990 (6'6")
F: Track gauge	mm (ft.in)	1350 (4'5")	1350 (4'5")	1540 (5'1")	1540 (5'1")
G: Bucket width	mm (ft.in)	1730 (5'8")	1730 (5'8")	2030 (6'8")	2030 (6'8")
H: Operating height (fully raised)	mm (ft.in)	3750 (12'4")	3820 (12'6")	3975 (13'1")	4140 (13'7")
J: Hinge pin height, max. height	mm (ft.in)	2960 (9'9")	3010 (9'11")	3080 (10'1")	3290 (10'10")
K: Dump angle at max. height	degree	46	47	43	42
L: Dumping clearance	mm (ft.in)	2190 (7'2")	2270 (7'5")	2310 (7'7")	2575 (8'5")
M: Reach at max. height	mm (ft.in)	620 (2'0")	450 (1'6")	620 (2'0")	870 (2'10")
N: Turning radius at bucket corner	mm (ft.in)	2100 (6'11")	2100 (6'11")	2255 (7'5")	2255 (7'5")
P: Turning radius at rear tail corner	mm (ft.in)	1450 (4'9")	1530 (8'0")	1550 (5'1")	1590 (5'3")
Q: Tilt back angle, carry position	degree	28	28	28	28

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SECTION **8**

**MOBILE CRUSHERS Sec 8A
& RECYCLERS**

MOBILE SOIL RECYCLERS Sec 8B



SECTION **8A**

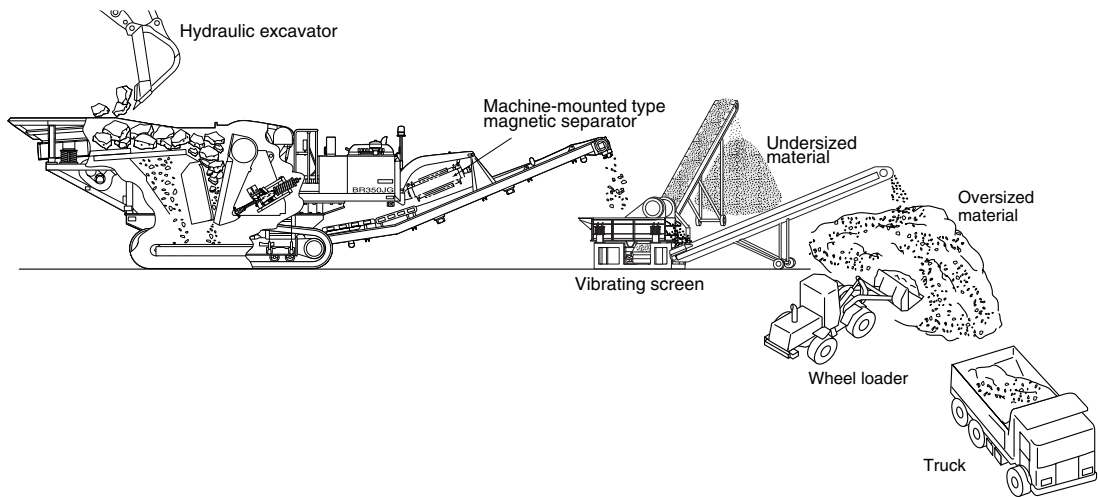
**MOBILE CRUSHERS
& RECYCLERS**

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Benefits Of Mobile Crusher & Recycler

1. Demolished wasted material (concrete, asphalt, brick, etc.) can be re-used effectively.
2. As the wasted material can be utilized again, the cost for purchasing new material can be saved.
3. The cost for hauling and dumping (of the wasted material) with trucks can be minimized.
4. Even when the processed material should be used outside, the transportation cost can be much saved. (because of the compactness of the material)
5. The elimination of the trucking also offers less generation of the exhaust gas.
6. The machine can be used whenever and wherever you like because of its mobility.



**■ Jaw crusher, with superior crushing force and reliability, is installed.
(BR100JG, BR380JG, BR580JG)**

- Natural rock, concrete, asphalt concrete, etc., can be crushed with strong force.

■ Easy transportation and superb maneuverability

- Compact crawler undercarriage is adopted, facilitating job site access/exit.

■ Semi-Automatic Material Feeding Control is installed

- The Komatsu original controller optimizes material feeding amount to the crusher.
- Plate feeder with speed controller keeps the operation of crusher uniform and stabilized. Thus, unmanned operation is possible.
(BR100JG, BR380JG, BR580JG)

■ Simple control and easy operation

- Raising/lowering of belt conveyor and removal of foreign materials are easy.
Crushing work is facilitated by preventive functions of macadam accumulation and debris clogging.
(BR100JG, BR380JG, BR580JG)

■ Options for more effective system

- Ample powered hydraulic-driven optional equipment is available, such as a magnetic separator (chassis mounted), vibratory screen and secondary/tertiary belt conveyors etc., to provide an effective system.

■ Low-noise and low vibration design

- Low-noise type engine; sound absorbing material; low-speed high-torque type hydraulic pump; soundproof muffler, etc., are adopted. Thus, overall noise level is low.

■ Highly reliable hydraulic drive system

- Crusher, feeder and belt conveyor are driven respectively by independent hydraulic pumps, assuring high reliability and easy maintenance.

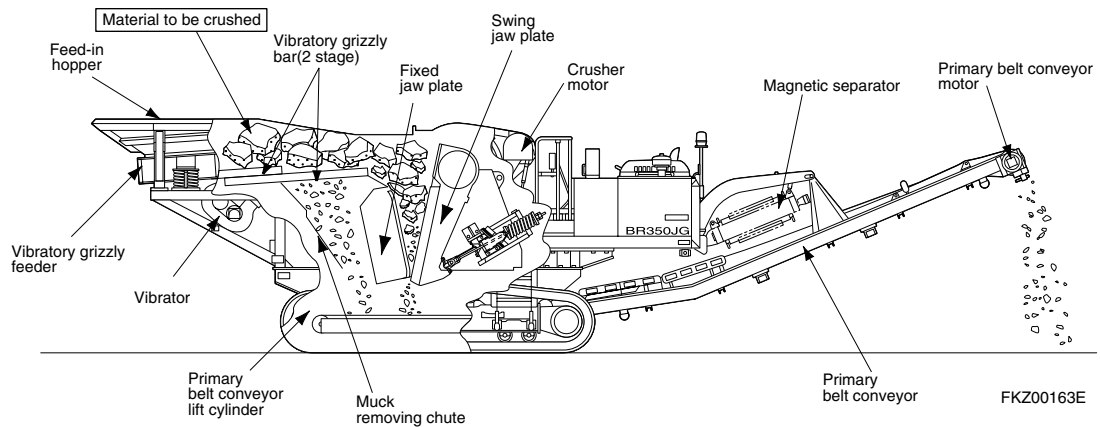
Komatsu mobile crushers are classified into 3 types.

The jaw crusher can crush large blocks and is suitable for crushing concrete debris and natural stone. It has a swing jaw plate and fixed jaw plate. Those jaw plates crush material.

The impact crusher is used for secondary crushing and granulation of asphalt, concrete debris, and natural stone. It produces round grains in many cases and is suitable for production of relatively fine grains. The blocks put in the impact crusher are thrown in the tangential direction by the blow bar of the rotor which is rotating at high speed and are crushed by collision with the impact plate. They are also crushed by collision with each other.

The shear shreds industrial waste as well as bulky domestic refuse to reduce its volume, thereby contributing to extending the service life of disposal sites.

[JAW CRUSHER]



Item		Model	JAW CRUSHER		
			BR100JG-2	BR380JG-1E0	BR580JG-1
MATERIAL	CONCRETE		☉	☉	☉
	NATURAL ROCK, STONE		☉	☉	☉
	ASPHALT		○	○	
	WOOD, TIRE, URBAN WASTE				
MAXIMUM FEED SIZE mm	CONCRETE DEBRIS		600 × 500 × 300	1000 × 900 × 475	1200 × 950 × 600
	NATURAL ROCK, STONE		250 × 250 × 250	425 × 425 × 425	600 × 600 × 600
	CRUSHER OUTPUT mm		0-40 to 0-80** 0-50 to 0-80***	0-50 to 0-150** 0-50 to 0-150*4	0-55 to 0-200** 0-100 to 0-200***
	CRUSHING CAPACITY ton/h		18-56** 20-54***	60-175** 50-240*4	100-460** 130-400***

* Asphalt/concrete debris

** Concrete debris

*** Natural stone (Andesite)

*4 Natural stone (Sandstone)

NOTE: Crushing capacity contains muck.

Specifications

MOBILE CRUSHERS & RECYCLERS

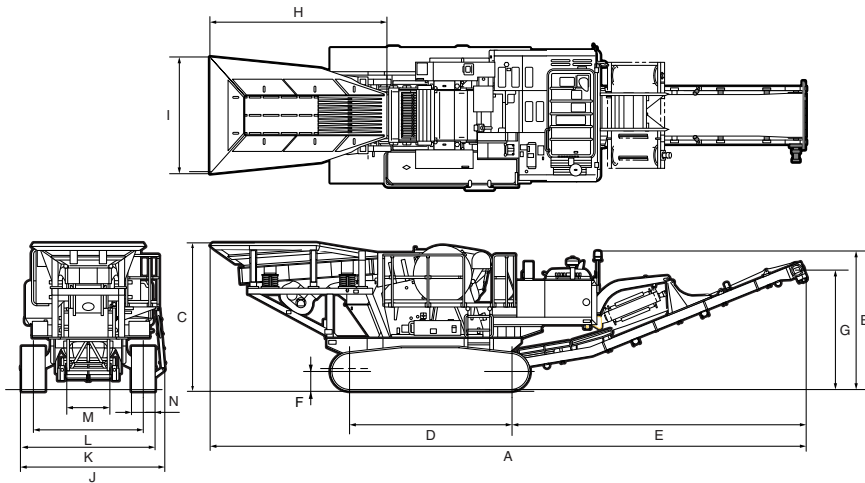
Item	Model	Jaw crusher		
		BR100JG-2	BR380JG-1E0	BR580JG-1
OPERATING WEIGHT	kg (lb)	9900 (21,830)	34000 (74,960)	49000 (108,000)
HORSEPOWER:				
SAE J1995: Gross	kW(HP)/rpm		149 (200)/2050	262.5 (352)/1900
ISO9249/SAE J1349: Net	kW(HP)/rpm	40.5 (54)/2100	140 (187)/2050	257 (345)/1900
PERFORMANCE:				
Max. feed-in grain size	mm (in)	Concrete debris 600×500×300 (23.6×19.7×11.8)	Concrete debris 475×900×1000 (18.7×35.4×39.4)	600×950×1200 (23.6×37.4×47.2)
Travel speed	km/h (MPH)	2.5 (1.6)	3.0 (1.9)	3.0 (1.9)
CRUSHER:				
Crushing capacity Concrete debris	ton (U.S.ton)/h	18 ~ 56 (20 ~ 62)	60 ~ 175 (66 ~ 193)	110 ~ 460 (121 ~ 507)
Natural stones		20 ~ 54* (33 ~ 60)	50 ~ 240** (55 ~ 265)	180 ~ 400 (198 ~ 441)
ENGINE:				
Model		KOMATSU 4D95LE	KOMATSU SAA6D107E-1	KOMATSU SAA6D125E-5
No. of cylinders- bore × stroke	mm (in)	4-95×115 (3.74×4.53)	6-107×124 (4.21×4.88)	6-125×150 (4.92×5.91)
Piston displacement	ltr. (cu.in)	3.26 (199)	6.69 (408)	11.04 (674)
DIMENSIONS:				
Overall length*4		8070 (26'6")	12500 (41'0")	14540 (47'8")
Overall height (transport)	mm (ft.in)	2700 (8'10")	3200 (10'6")	3820 (12'6")
Overall width (transport)		2200 (7'3")	2810 (9'3")	3090 (10'2")
Length of track on ground		2115 (6'11")	3275 (10'9")	3700 (12'2")
Track gauge		1700 (5'7")	2280 (7'6")	2480 (8'2")
CAPACITY:				
Fuel tank	ltr. (U.S. Gal)	130 (34.3)	400 (106)	650 (172)
Hydraulic tank		90 (23.8)	209 (55.2)	248 (65.5)
Applicable base machine (Engine/undercarriage)		PC60-7/PC58UU-3	PC200-7	

- * Andesite
- ** Sand stones
- *** Concrete debris
- *4 Including conveyor

NOTE: Crushing capacity is the sum of crushed volume and muck removal by the Vibratory Grizzly Feeder.

Dimensions

MOBILE CRUSHERS & RECYCLERS



Unit: mm (ft.in)

	BR100JG-2	BR380JG-1E0	BR580JG-1
A	8070 (26'6")	12500 (41'0")	14540 (47'8")
	8070* (26'6")	12500* (41'0")	14495* (47'7")
B	2700 (8'10")	3200 (10'6")	3465 (11'4")
C	2515* (8'3")	3200* (10'6")	3365* (11'0")
	2515 (8'3")	3200 (10'6")	3820 (12'6")
D	2115 (6'11")	3275 (10'9")	3700 (12'2")
E	3795 (12'5")	6080 (20'0")	7060 (23'2")
F	205 (8")	300 (12")	200 (7.9")
G	1500 (4'11")	2800 (9'2")	3000 (9'10")
H	2165 (7'1")	3770 (12'4")	4400 (14'5")
I	1840 (6')	2500 (8'2")	2625 (8'7")
J	2345 (7'8")	—	—
	2200* (7'3")	—	—
K	2100 (6'11")	2780 (9'1")	2980 (9'9")
L	1700 (5'7")	2280 (7'6")	2480 (8'2")
M	600 (24")	1050 (41.3")	1050 (41.3")
N	400 (16")	500 (20")	500 (20")

* at transportation

Calculation of the production capacity of a mobile crusher varies largely with the type of the crusher, properties of supplied material and rocks, quantity of muck in the material, clearance of discharge setting, rotation speed of the crusher, and size of the products required by the customer, etc.

The following are the basic elements for calculation of production capacity of each crusher.

■ Relationship between elements for calculation of production capacity of jaw crusher

Production capacity	Large > Small		Remarks
Clearance of discharge setting	Wide	Narrow	
Hardness of material	Soft	Hard	Hard material may crush easily
Ratio of muck in material (in crusher)	Low	High	
Wetness of material	Dry	Wet	
Impurities in material	Less	Many	
Supply rate in crusher	–	High	Efficiency becomes highest when supply rate is 60 – 70% of volume of crusher.
Size of material	Small	Large	

* When recommending production capacity, confirm the properties of the rock samples from the customer's quarry by crushing them actually.

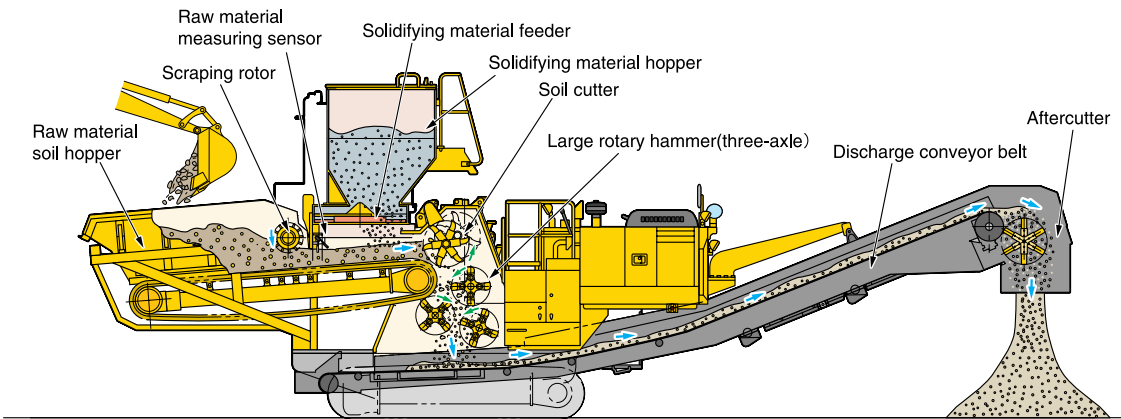
SECTION **8B**

**MOBILE SOIL
RECYCLERS**

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- Waste soil in the course of various construction job site can be processed on site, allowing the soil to be recycled.
- Costs for waste soil disposing, new materials and transportation can be greatly reduced by on site recycling.

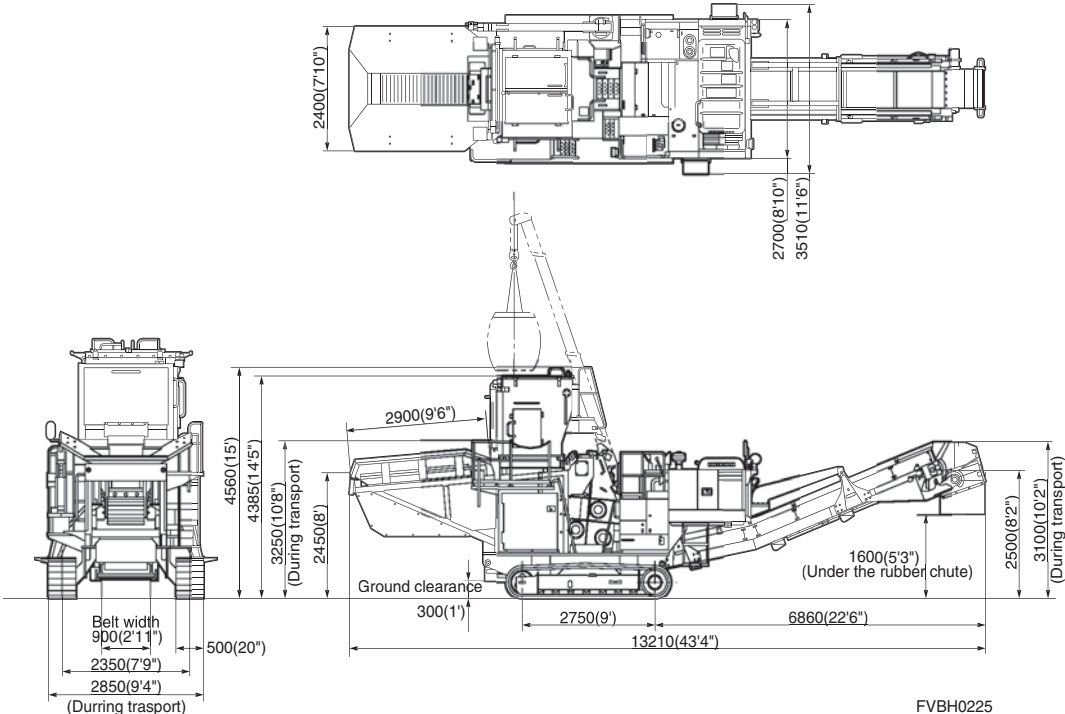


Specifications

MOBILE SOIL RECYCLERS

Item	Model	BZ210
OPERATING WEIGHT	kg (lb)	20500 (45,190)
HORSEPOWER	kW (HP)/RPM	107 (144)/1950
MIXER PERFORMANCE:		
Processing capacity	m ³ /h (cu.yd/h)	40 - 150 (52 - 195)
Mixing method		Soil cutter and triple rotary hammer
Row material soil hopper volume	m ³ (cu.yd)	2.0 (2.4)
Max. material size	mm (in)	200 (7'9")
Solidifying material hopper capacity	m ³ (cu.yd)	3.0 (3.9)
Solidifying material feed adjustment range	kg/m ³ (lb/cu.yd)	9 - 400 (15 - 674)
ENGINE:		KOMATSU
Model		SAA6D102E
No. of cylinder- bore × stroke	mm (in)	6-102 × 120 (4.02 × 4.72)
Piston displacement	ltr. (cu.in)	5.88 (359)
DIMENSIONS:		
Overall length*		13210 (43'4")
Overall height (transport)	mm (ft.in)	4560 (15'0")
Overall width (transport)		2850 (9'4")
Length of track on ground		2750 (9')
Track gauge		2350 (7'9")
CAPACITY:		
Fuel tank	ltr. (U.S. Gal)	400 (107)
Hydraulic tank		240 (63)

* Including conveyer



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SECTION **9**

FOREST MACHINES

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Komatsu Forest AB is an international group with its head office and technology center in Umea, Sweden. Komatsu Forest produces the Valmet brand of forestry machines and is one of the world's largest manufacturers of forestry machines. Komatsu Forest has approximately 1,100 employees and is represented on all markets where mechanized forestry is used. The company includes the two manufacturing units Komatsu Forest AB Sweden and Komatsu Forest LLC USA. Komatsu Forest has its own sales companies in Australia, Brazil, Finland, Norway, the United Kingdom, USA, Sweden and Germany. Komatsu Forest AB is owned by the Japanese company Komatsu Ltd.

For more information about Komatsu Forest and Valmet products, visit: www.komatsuforest.com



SECTION **9A**

HARVESTERS

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- **Powerful and efficient engine**

Specially developed engines for forest machines. Six-cylinders turbo diesel with electronic common rail fuel injection which produces a rapid response to increased loads. As it has been specially developed for forest machines, it delivers maximum torque even at low revs. The engines has also been provided with optimized cooling with a computer-controlled fan that detects the temperature. This results in maximum performance combined with reduced fuel consumption. All machines with power outputs in excess of 172 HP (130 kW) are equipped with engines that fulfill the EU's Tier 3 requirements.

- **Fast and maneuverable crane**

The cranes are simple and robust and have hydraulic/electronic parallel action. A design with a low centre of gravity and a centrally positioned crane gives an excellent stability. The stabilizer is connected to the cabs and the cranes leveling. With the more lightweight harvester heads the cranes achieves a reach up to 11 meters.

- **Operator comfort**

Leveling produces extremely operator-friendly cabs, where the operator is always sitting flat. This consequently generates extraordinarily good ergonomics, which enable the driver to retain concentration throughout the shift without becoming tired. The slewing cab and the side-mounted crane means that the harvester head is always in focus and the visibility perfect. Low engine noise also contributes to the excellent comfort.

- **Easy maintenance**

The machines are extremely operationally reliable, which minimize the stoppages. They are also easy to maintain and just about all service work can be carried out from ground level. Daily service and checkpoints are naturally easily accessible.

- **Excellent control and information system**

The control and information system, MaxiHarvester, links together the office, the machine and industry in an effective chain. Maxi covers a large number of different programs, for example for machine control, price list management, GIS, production and working info.



901 6WD/4WD



911



941

Specifications

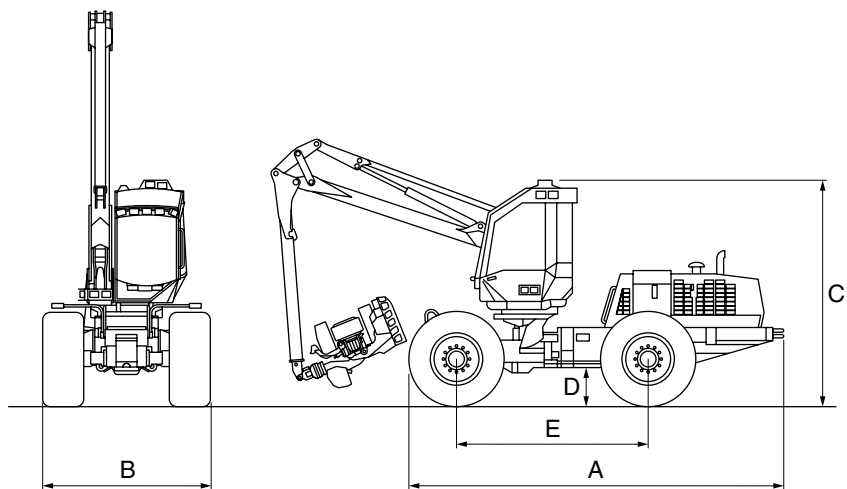
HARVESTERS

Item	Model	901.4	901TX	911.4
OPERATING WEIGHT (approx.) 4WD 6WD	kg (lb)	14490 (31,945) 15100 (33,290)	— 17000 (37,480)	— 16100 (35,495)
HORSEPOWER (DIN) Gross	kW (HP)/rpm	150 (204)/2000	150 (204)/1900	170 (228)/1700
PERFORMANCE: Traction force Travel speed	kN kgf (lbf) km/h (MPH) Hi Lo	128 13050 (28,770) 0 – 25 (15.5) —	152 15500 (34,180) 0 – 25 (15.5) —	162 16520 (36,430) 0 – 25 (15.5) —
ENGINE: Model Torque	Nm/rpm	Sisu Diesel 66CTA 800/1500	Sisu Diesel 66CTA-2V 820/1500	Sisu Diesel 74CTA 1000/1500
HYDRAULIC SYSTEM: Hydraulic pump Max. flow Working pressure	ltr. (U.S.Gal)/min. kg/cm ² (PSI)	Variable capacity 246 (65) 255 (3625)	Variable capacity 270 (71.3) 255 (3625)	Variable capacity 310 (81.9) 255 (3625)
CRANE (BOOM): Model Reach with harvester head Lifting moment, gross Slewing torque, gross	m (ft.in) kNm (lbf-ft) kNm (lbf-ft)	CRH15/CRH15DT 10/11 (32'10"/36'1") 156.5 (115,430) 35.5 (26,180)	CRH16/CRH16DT 10/11 (32'10"/36'1") 170 (125,386) 40.8 (30,110)	CRH18/CRH18DT 10/11 (32'10"/36'1") 186.0 (137,190) 40.8 (30,090)
WHEEL & AXLES Front Rear		4W: 600/65 × 34 4W: 700/55 × 34 4W: 710/55 × 34 6W: 600/50 × 22.5 6W: 650/45 × 22.5 6W: 710/40 × 22.5 4W: 600/65 × 34 4W: 700/55 × 34 4W: 710/55 × 34 6W: 620/55 × 30.5 6W: 650/65 × 26.5	6W: 600/65 × 34 6W: 700/55 × 34 6W: 650/45 × 24.5 6W: 710/45 × 24.5	6W: 600/55 × 26.5 6W: 700/50 × 26.5 6W: 710/45 × 26.5 6W: 600/65 × 34 6W: 700/55 × 34 6W: 710/55 × 34
CAPACITY (Refilled) Fuel tank	ltr. (U.S. Gal)	370 (98)	370 (98)	370 (98)
Application Harvester Head		Valmet 330.2 Valmet 350.1	Valmet 330.2 Valmet 350.1	Valmet 350.1 Valmet 360.2

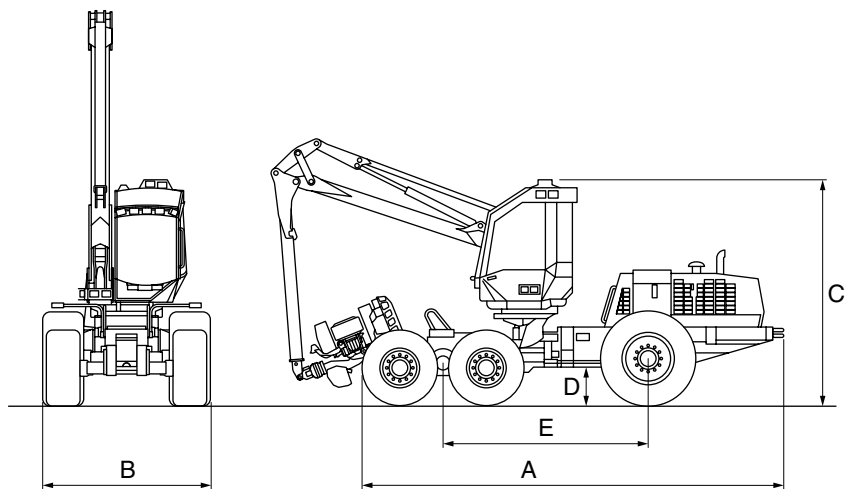
Specifications

HARVESTERS

Item	Model	931	941.1	
OPERATING WEIGHT (approx.) 4WD 6WD	kg (lb)	— 19400 (42,770)	— 23500 (51,800)	
HORSEPOWER (DIN) Gross	kW (HP)/rpm	193 (259)/1700	210 (285)/1600	
PERFORMANCE: Traction force Travel speed	kN kgf (lbf) km/h (MPH) Hi Lo	175 17850 (39,350) 0 – 25 (15.5) —	190 19370 (42,700) 0 – 25 (15.5) —	
ENGINE: Model Torque	Nm/rpm	Sisu Diesel SD74-4V 1070/1500	Sisu Diesel 84CTA 1300/1500	
HYDRAULIC SYSTEM: Hydraulic pump Max. flow Working pressure	ltr. (U.S.Gal)/min. kg/cm ² (PSI)	Variable capacity 313 (91)/1650 285 (4060)	Variable capacity 346 (91) 265 (3770)	
CRANE (BOOM): Model Reach with harvester head Lifting moment, gross Slewing torque, gross	m (ft.in) kNm (lbf-ft) kNm (lbf-ft)	CRH22;9.8m/8.5m 9.8/8.5 (32'2"/27'11") 217 (160,100) 47 (34,670)	CRH24;10m/CRH24;8m 10/8.1 (32'10"/26'7") 273 (201,300) 51 (37,600)	
WHEEL & AXLES Front Rear		6W: 600/55 × 26.5 5W: 710/45 × 26.5 6W: 600/65 × 34 6W: 700/55 × 34	650/65 × 26.5 750/55 × 26.5 700/70 × 34	
CAPACITY (Refilled) Fuel tank	ltr. (U.S. Gal)	370 (98)	550 (145)	
Application Harvester Head		Valmet 360.2 Valmet 365 Valmet 370.2	Valmet 370.2 Valmet 370E	



FVBH0365



FVBH0366

Item	Model		901.4 (4W)	901.4 (6W)	901TX	911.4
A Length		mm (ft.in)	6280 (20'7")	6930 (22'9")	7065 (23'2")	7170 (23'6")
B Width	Min.	mm (ft.in)	2730 (8'11")	2600 (8'6")	2735 (9'0")	2720 (8'11")
	Max.	mm (ft.in)	2910 (9'7")	2810 (9'3")	2895 (9'6")	2940 (9'8")
C Height		mm (ft.in)	3730 (12'3")	3680 (12'1")	3735 (12'3")	3740 (12'3")
D Ground clearance		mm (ft.in)	640 (2'1")	585 (1'11")	635 (2'1")	650 (2'2")
E Wheel base		mm (ft.in)	3300 (10'10")	3500 (11'6")	3500 (11'6")	3500 (11'6")

Item	Model		931	941.1		
A Length		mm (ft.in)	7360 (24'2")	8075 (26'6")		
B Width	Min.	mm (ft.in)	2720 (8'11")	2980 (9'9")		
	Max.	mm (ft.in)	2940 (9'8")	3180 (10'5")		
C Height		mm (ft.in)	3910 (12'10")	3820 (12'6")		
D Ground clearance		mm (ft.in)	665 (2'2")	650 (2'2")		
E Wheel base		mm (ft.in)	3700 (12'2")	4025 (13'2")		

Installation Kit for Valmet Harvester heads on Komatsu PC200, PC210 and PC228

Valmet installation system makes it easy to fit harvester heads to excavators. The kit provides a well-proven and complete solution that easily and inexpensively transforms an excavator into an efficient forestry machine.

The system is especially designed for Komatsu excavators and works with all harvester heads in the Valmet 300 series. The kit includes complete installation instructions, with hydraulics and electrical diagrams. The thorough documentation ensures high reliability and simplifies troubleshooting.

The installation kit provides rapid access to all necessary components, including the mounting adapter, the hydraulic lines and the electrical circuits. In addition, the kit includes important details for increased operator safety.



SECTION **9B**

FORWARDERS

CONTENTS

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- **Powerful engines and a great pulling force**

Six-cylinders (four in 830.1) turbo diesel with electronic common rail fuel injection. The engines has been specially designed for tough forest work and delivers a powerful torque even at lower revs. This produces good traction even with a full load, with an impressive pulling force. All machines with power outputs in excess of 172 HP (130 kW) are equipped with engines that fulfill the EPA Tier 3 and EU Stage 3A requirements.

- **High stability and Mobility**

Valmet's well-known, back-to-front center pivot, with the steering joint in the front frame and the articulation in the rear frame provide the machine with extraordinary stability. Very good off-road properties means full use of the machines speed, even in sensitive forests. It creeps forward, following its tracks back and forth, and does not cut corners. The very low centre of gravity, high ground clearance and external dimensions, all contribute to the machines accessibility.

- **Outstanding loader**

Strong and fast loaders with up to 8.5 m (27'11") reach. Great reliability is ensured by the outer boom and lift cylinders, the hose routing and the hose routing between the machine and the crane. Crane maneuvering is smooth thanks to limit dampening. The crane tip solution, Valmet ProTec means a completely protected hose passage in the crane tip between the crane and grapple and a braking technique that effectively dampens grapple swing.

- **Impressive load capacity**

Valmet forwarders are true workmates and real pack mules with right qualities to guarantee high productivity. The chassis is of a sturdy design, dimensioned for high tonnages. The load capacity is up to 19.8 tons and equipped the bunk system, LoadFlex, provides an extra 1.4 m (4.6") bunk width.

- **Optimized comfort**

The cabs are ergonomically designed down to smallest detail. Visibility is always good, whether loading, driving or unloading. Everything is close at hand for the operator, even though the cab is unusually spacious inside. Valmet cabs are known for low noise and vibration levels. A good operator environment allows operators to concentrate better throughout their work shifts and remain highly productive.

- **Intelligent control and information system**

Valmet Forwarders are fitted with the intelligent and easy-to-use MaxiForwarder control system. It controls all interaction between the machine, the transmission and the crane and ensures that the operator always get the most out of the machine. Operating data collection and production reports are included in the system, which even provides information about forwarders status, running time and total production volume.



Specifications

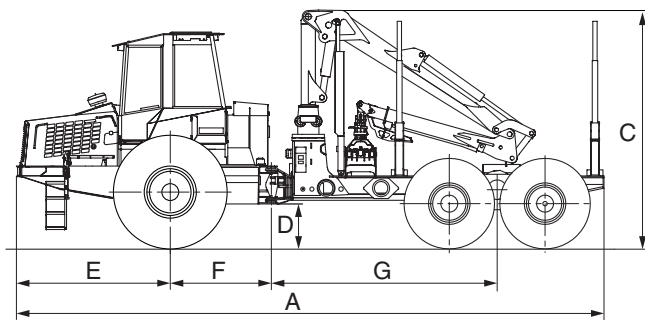
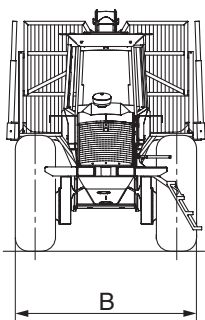
FORWARDERS

Item		Model	830.3	840.4	840TX	860.4
OPERATING WEIGHT (approx.)						
6WD	kg (lb)	—	14000 (30,860)	—	14360 (31,660)	
8WD		10500 (23,150)	15600 (34,390)	14800 (32,630)	16060 (35,410)	
HORSEPOWER (DIN)						
Gross	kW (HP)/rpm	100 (134)/2200	125 (168)/2000	129 (175)/2000	145 (197)/2000	
PERFORMANCE:						
Gross load	kgf (lbf)	9000 (19,850)	12000 (26,460)	12000 (26,460)	14000 (30,860)	
Bunk area	m ² (sq ft)	3.4 - 4.1 (36.6 - 44)	4.1 (44)	4.1 (44.1)	4.5 - 4.8 (48.4 - 51.7)	
Traction power	kN	110	155	155	174	
Travel speed	kgf (lbf)	11220 (24,730)	15840 (34,870)	15810 (34,860)	17740 (39,150)	
	km/h (MPH)	0 - 25 (15)	0 - 23 (14)	0 - 23 (14.3)	0 - 23 (14)	
	Hi Lo	—	—	—	—	
ENGINE:						
Model		Sisu Diesel 44CWA	Sisu Diesel 66CTA	Sisu Diesel 49CWA	Sisu Diesel 66CTA	
Torque	Nm/rpm	600/1400	700/1500	750/1500	800/1500	
HYDRAULIC SYSTEM:						
Hydraulic pump		Variable capacity	Variable capacity	Variable capacity	Variable capacity	
Max. flow	ltr. (U.S.Gal)/min.	170 (45)	290 (76.6)	290 (76.6)	290 (76.6)	
Working pressure	kg/cm ² (PSI)	240 (3,410)	240 (3,410)	240 (3,410)	265 (3,770)	
LOADER AND GRAPLE						
Loader		CRF5, CRF5.1	CRF8.1, CRF8.1C	CRF8.1	CRF11, CRF11C	
Lifting torque, gross	kNm (lbf-ft)	74 (54,600)	106.1 (78,300)	106.1 (78,255)	126 (92,900)	
Slewing torque, gross	kNm (lbf-ft)	22 (16,150)	28.7 (21,170)	28.7 (21,170)	28.7 (21,170)	
Reach	m (ft.in)	6.85 - 9.3 (22'6" - 30'6")	7.8 - 9.6 (25'7" - 31'6")	7.8 (25'7")	7.8 - 9.6 (25'7" - 31'6")	
Grapple		G25	G28 or G36	G28	G28 or G36HD	
WHEEL & AXLES						
6WD front		—	600/65 × 34 700/55 × 34	—	600/65 × 34 700/55 × 34	
6WD rear		—	710/55 × 34 600/55 × 26.5 710/45 × 26.5	—	710/55 × 34 600/55 × 26.5 710/45 × 26.5	
8WD front		600/50 × 22.5 650/45 × 22.5	600/55 × 26.5 710/45 × 26.5	710/45 × 24.5 650/45 × 24.5	600/55 × 26.5 710/45 × 26.5	
8WD rear		700/45 × 22.5 710/40 × 22.5	600/55 × 26.5 710/45 × 26.5	710/45 × 24.5 650/45 × 24.5	600/55 × 26.5 710/45 × 26.5	
Turning radius	6WD 8WD	mm (ft.in)	6656 (21'10") —	— —	— —	
CAPACITY (Refilled)						
Fuel tank	ltr. (U.S.Gal)	100 (26.4)	160 (42.3)	160 (42.3)	160 (42.3)	

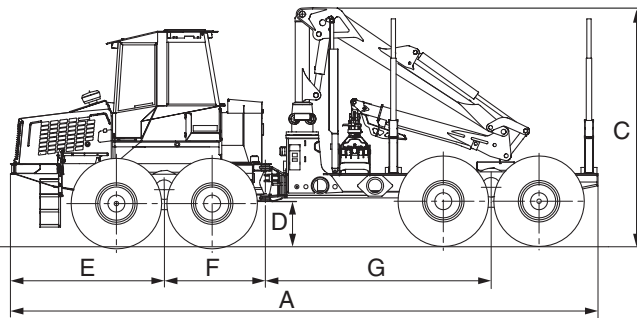
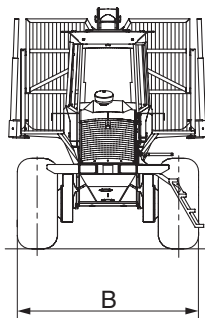
Specifications

FORWARDERS

Item	Model	890.3			
OPERATING WEIGHT (approx.) 6WD 8WD	kg (lb)	16800 (37,040) 19100 (42,110)			
HORSEPOWER (DIN) Gross	kW (HP)/rpm	150 (204)/2000			
PERFORMANCE: Gross load Bunk area Traction power Travel speed	kgf (lbf) m ² (sq ft) kN kgf (lbf) km/h (MPH)	18000 (39,680) 5.6 (60.3)/ 6.0 (64.6) 207 21100 (46,535) 0 – 25 (15.5) —			
ENGINE: Model Torque	Nm/rpm	Sisu Diesel 74CTA 1000/1500			
HYDRAULIC SYSTEM: Hydraulic pump Max. flow Working pressure	ltr. (U.S.Gal)/min. kg/cm ² (PSI)	Variable capacity 340 (89.8) 240 (3,410)			
LOADER AND GRAPLE Loader Lifting torque, gross Slewing torque, gross Reach Grapple	kNm (lbf-ft) kNm (lbf-ft) m (ft.in)	CRF14 155 (114,300) 41.3 (30,460) 7.5 (29'5") G36, G36HD G40, G40HD			
WHEEL & AXLES 6WD front 6WD rear 8WD front 8WD rear Turning radius	6WD 8WD 6WD 8WD mm (ft.in)	700/70 × 34 650/65 × 26.5 750/55 × 26.5 750/55 × 30.5 650/65 × 26.5 750/55 × 26.5 750/45 × 30.5 650/65 × 26.5 750/55 × 26.5 750/45 × 30.5 9147 (30'0") 9295 (30'6")			
CAPACITY (Refilled) Fuel tank	ltr. (U.S.Gal)	210 (55.5)			



FVBH0361



FVBH0362

Item	Model	830.3	840.4 (6W)	840.4 (8W)	840TX (8W)
A Length	mm (ft.in)	8122 (26'8")	9570 (31'5")	9570 (31'5")	9020 (29'7")
B Width	mm (ft.in)	2600 (8'6")	2640 (8'8")	2690 (8'10")	2890 (9'6")
C Height	mm (ft.in)	3526 (11'7")	3810 (12'6")	3810 (12'6")	3783 (12'5")
D Ground clearance	mm (ft.in)	622 (2'0")	680 (2'3")	680 (2'3")	656 (2'2")
E From front to front axle	mm (ft.in)	2409 (7'11")	2500 (8'2")	2500 (8'2")	2250 (7'5")
F From front to axle to waist	mm (ft.in)	1850 (6'1")	1670 (5'6")	1670 (5'6")	1670 (5'6")
G From waist to back axle	mm (ft.in)	2300 (7'7")	3300 (10'10")	3300 (10'10")	2997 (9'10")

Item	Model	860.4 (6W)	860.4 (8W)	890.3 (6W)	890.3 (8W)
A Length		9570 (31'5")	9570 (31'5")	9296 (31'6")	9296 (31'6")
B Width	mm (ft.in)	2590 (8'6")	2760 (9'1")	2970 (9'9")	2995 (9'10")
C Height	mm (ft.in)	3810 (12'6")	3810 (12'6")	3809 (12'6")	3809 (12'6")
D Ground clearance	mm (ft.in)	680 (2'3")	680 (2'3")	683 (2'3")	683 (2'3")
E From front to front axle	mm (ft.in)	2500 (8'2")	2500 (8'2")	2500 (8'2")	2500 (8'2")
F From front to axle to waist	mm (ft.in)	1670 (5'6")	1670 (5'6")	1670 (5'6")	1670 (5'6")
G From waist to back axle		3300 (10'10")	3300 (10'10")	3297 (10'10")	3297 (10'10")

SECTION **9C**

**TRACKED FELLER
BUNCHERS &
HARVESTERS**

CONTENTS

Features 9C-2
Specifications 9C-3
Dimensions 9C-4

- Unique set-back boom design offers a greater working range. Numerous boom options ranging from 6.53 m – 9.42 m (21'5" – 30'11"), provide excellent lift capacity and a wide cutting sweep for long reach harvesting or felling.
- Powerful engine meet Tier II emissions standards. Renowned for producing high torque at low RPM, SisuDiesel reduces noise, vibration and heat, while delivering dramatic fuel savings.
- Load sensing hydraulics apportions flow where you need it, when you need it.
- Easy service access. Lockable enclosures allow easy access and ground-level servicing at all routine service points.
- Purpose-built forestry carbody and track drive system with independent closed loop hydrostatic drive.
- Larger, taller front window improves the operator's line of sight and increases tree-top view (sky window is optional).
- Control system and gauges are ergonomically positioned into a new, fully integrated non-glare dash board.
- Certified cab is safe, comfortable and spacious with extra storage space. New electronic controls eliminate hydraulic oil pilot lines in cab.
- IQAN carrier control system developed for the EX-Series, makes these the smoothest track machines ever.
- The EX-Series is flexible allowing you to equip your machine as a harvester or a feller buncher. Fit the attachment type that is right for your job.
- EXL models feature the legendary. Timbco 2-cylinder, 4-way leveling system the industry's gold standard for simplicity reliability and value. With over 5 million hours logged this proven leveling system will take you up the steepest scopes and bring you back down safety.

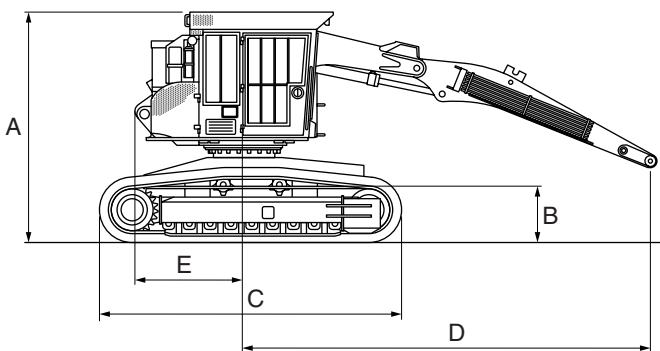
Specifications

**TRACKED FELLER BUNCHERS
& HARVESTERS**

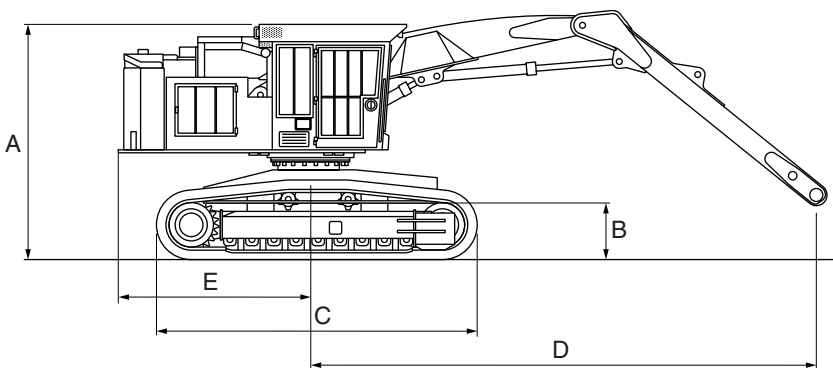
Item	Model	415FX	430FX	430FXL	445FXL
BASE MACHINE WEIGHT	kg (lb)	20230 (44,600)	27660 (60,990)	27290 (60,165)	30390 (67,000)
HORSEPOWER (DIN) Gross	kW (HP)/rpm	164 (226)/2200	224 (300)/2000	224 (300)/2000	224 (300)/2000
PERFORMANCE: Tractive effort Travel speed Swing torque	kgf (lbf) km/h (MPH) kgm (ft-lbs)	20795 (45,845) 4.3 (2.7) 3459 (7,625)	28010 (61,775) 4.8 (3.0) 6512 (47,100)	28010 (61,775) 4.8 (3.0) 6512 (47,100)	33710 (74,315) 5.3 (3.3) 6512 (47,100)
LIFTING CAPACITY (w/o att.) at 3.05 m (10') at 4.57 m (15') at 6.1 m (20')	kg (lb)	10489 (23,125) 5511 (12,150) 3459 (7,625)	11000 (24,250) 8255 (18,200) 5216 (11,500)	11000 (24,250) 8255 (18,200) 5216 (11,500)	11000 (24,250) 8255 (18,200) 5216 (11,500)
ENGINE: Model Torque	kgm (ft-lbs)/rpm	Cummins QSB6.7 96.8 (700)/1500	Cummins QSC8.3 138.2 (1000)/1500	Cummins QSC8.3 138.2 (1000)/1500	Cummins QSC 138.2 (1000)/1500
HYDRAULIC SYSTEM: Hydraulic pump Max. flow	ltr. (U.S.Gal)/min.	Variable capacity 341 (90)	Variable capacity	Variable capacity	Variable capacity
Track shoe width/ Ground pressure 600 mm (23.6") single grouser 600 mm (23.6") double grouser 700 mm (27.6") single grouser 700 mm (27.6") double grouser 900 mm (35.4") triple grouser	kg/cm ² (PSI)	0.44 (6.24) 0.44 (6.29) — — 0.31 (4.38)	0.54 (7.74) — 0.48 (6.8) 0.38 (5.42)	0.57 (8.16) — 0.50 (7.16) —	0.61 (8.74) — 0.54 (7.62) —
CAPACITY (Refilled) Fuel tank	ltr. (U.S.Gal)	379 (100)	852 (225)	700 (185)	700 (185)

Item	Model	450FXL	475FXL	FX10	
BASE MACHINE WEIGHT	kg (lb)	31520 (69,490)	37195 (82,000)	29930 (65,980)*	
HORSEPOWER (DIN) Gross	kW (HP)/rpm	224 (300)/2800	228 (305)/2100	224 (300)/2000	
PERFORMANCE: Tractive effort Drawbar pull Travel speed Swing torque	kgf (lbf) kgf (lbf) km/h (MPH) kgm (ft-lbs)	33710 (74,315) — 5.3 (3.3) 6512 (47,100)	339307 (74,800) — 5.3 (3.3) 11267 (81,500)	33710 (74,315) — 5.3 (3.3) 6512 (47,100)	
LIFTING CAPACITY (w/o att.) at 3.05 m (10') at 4.57 m (15') at 6.1 m (20')	kg (lb)	11000 (24,250) 8255 (18,200) 5216 (11,500)	5988 (13,200)		
ENGINE: Model Torque	kgm (ft-lbs)/rpm	Cummins QSC8.3 138.2 (1000)/1500	Cummins QSL9 145.2 (1050)/1300	Cummins QSC8.3 138.2 (1000)/1500	
HYDRAULIC SYSTEM: Hydraulic pump Max. flow	ltr. (U.S.Gal)/min.	Variable capacity	Variable capacity 500 (132)	Variable capacity 435 (122)	
Track shoe width/ Ground pressure 600 mm (23.6") single grouser 600 mm (23.6") double grouser 700 mm (27.6") single grouser 700 mm (27.6") double grouser 900 mm (35.4") triple grouser	mm (in)/ kg/cm ² (PSI)	0.64 (9.07) — 0.56 (7.9) — —	0.75 (10.6) — 0.65 (9.2) — —	0.61 (8.61) — 0.53 (7.51) — —	
CAPACITY (Refilled) Fuel tank	ltr. (U.S.Gal)	1362 (360)	1362 (360)	700 (185)	

* : With 370 Heavester head



FVBM0363



FVBH0364

Item	Model	415FX	430FX	430FXL	445FXL
Overall width STD 600 mm shoe OPT 700 mm shoe OPT 900 mm shoe	mm (ft.in)	2800 (9'2")	3140 (10'4")	2935 (9'8")	3140 (10'4")
		—	3240 (10'8")	3035 (10'0")	3240 (10'8")
		3100 (10'2")	3440 (11'3")	INA	—
A Overall height	mm (ft.in)	3250 (10'8")	3595 (11'10")	3775 (12'5")	3850 (12'8")
B Ground clearance	mm (ft.in)	640 (2'0")	730 (2'5")	730 (2'5")	810 (2'8")
C Track length	mm (ft.in)	4290 (14'1")	4915 (16'1")	4590 (15'1")	4770 (15'8")
D Reach max.	mm (ft.in)	6530 (21'5")	6530 (21'5")	6530 (21'5")	6530 (21'5")
E Tail swing radius	mm (ft.in)	1615 (5'4")	1470 (4'10")	1470 (4'10")	1470 (4'10")

Item	Model	450FXL	475FXL	FX10	
Overall width STD 600 mm shoe OPT 700 mm shoe OPT 900 mm shoe	mm (ft.in)	3170 (10'5")	3170 (10'5")	3140 (10'4")	
		3270 (10'9")	3270 (10'9")	3240 (10'8")	
		—	—	—	
A Overall height	mm (ft.in)	3880 (12'9")	3888 (12'9")	3850 (12'8")	
B Ground clearance	mm (ft.in)	810 (2'8")	602 (2'0")	810 (2'8")	
C Track length	mm (ft.in)	4770 (15'8")	5118 (16'9")	4770 (15'8")	
D Reach max.	mm (ft.in)	6530 (21'5")	6931 (22'9")	10700 (35'1")	
E Tail swing radius	mm (ft.in)	1470 (4'10")	—	1470 (4'10")	

SECTION **9D**

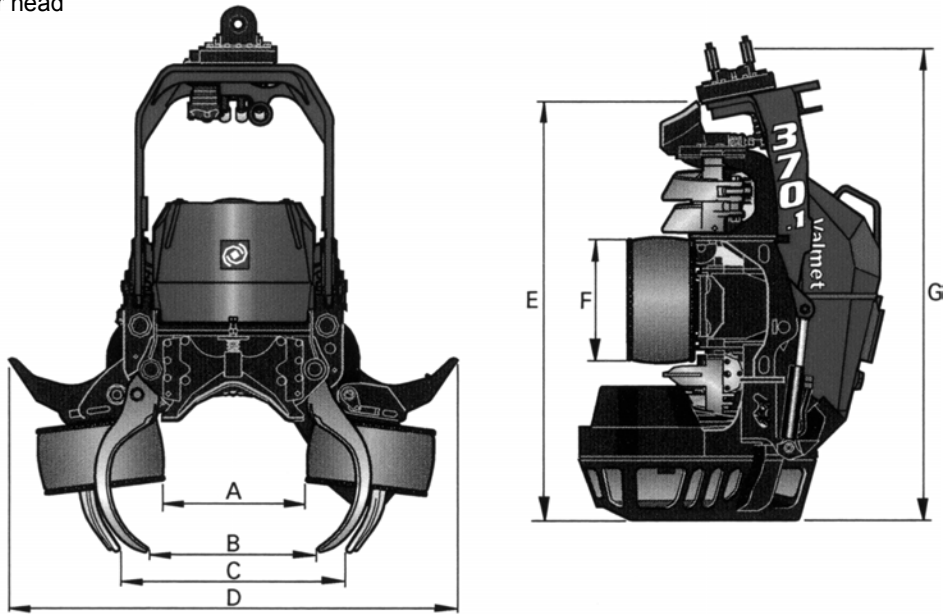
HARVESTER HEADS

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Harvester head

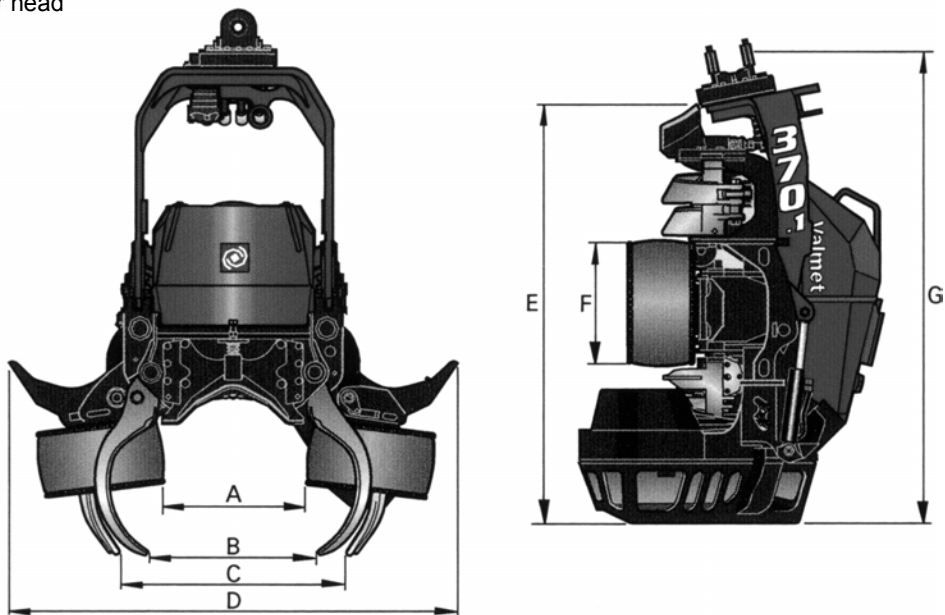


Model		330.2	330.2DUO	350.1	360.2
Item					
WEIGHT	kg (lb)	685 (1,510)	750 (1,653)	950 (2,094)	1245 (2,745)
Incl. Topping saw					
Feed force (gross)	kN	15.5	15.5	16,5 - 25,3	25.3
	kgf	1580	1580	1680 - 2580	2580
	(lbf)	(3,485)	(3,485)	(3,710 - 5,690)*	(5,690)
Feed speed	m/s (ft/s)	0 - 4.5 (0 - 14.8)	0 - 4.5 (0 - 14.8)	0 - 5 (0 - 16.4)	0 - 5 (0 - 16.4)
DIMENSIONS:					
Cutting diameter	mm (in)	480 (18.9")	480 (18.9")	600 (23.6")	650 (25.6")
A Roller opening, max.		530 (20.9")	680 (26.8")	520 (20.5")	550 (21.7")
B Opening upper knives		460 (18.1")	460 (18.1")	600 (23.6")	640 (25.2")
C Opening lower knives		—	—	—	—
D Width max.		1200 (47.2")	1360 (53.5")	1400 (55.1")	1720 (67.7")
E Height to vertical knife		1110 (43.7")	1110 (43.7")	1300 (51.2")	1650 (65.0")
F Roller diameter		310 (12.2")	310 (12.2")	395 (15.5")	460 (18.1")
G Height including roller slewing		1400 (55.1")	1400 (55.1")	1440 (56.7")	1800 (70.9")

Model		365	370.2	370E	378E
Item					
WEIGHT	kg (lb)	1200 (2,646)	1470 (3,241)	1600 (3527)	1850 (4,080)
Incl. Topping saw				1710 (3770)	
Feed force (gross)	kN	23.5 - 28.3	28,2 - 30.7*	23.5 - 34.3*	26.6
	kgf	2400 - 2890	2875-3130	2400 - 3500	2710
	(lbf)	(5,306 - 6,362)	(6,340 - 6,900)	(5,280 - 7,710)	(5,980)
Feed speed	m/s (ft/s)	0 - 5 (0 - 16.4)	0 - 5 (0 - 16.4)	0 - 5 (0 - 16.4)	0 - 6 (0 - 20)
DIMENSIONS:					
Cutting diameter	mm (in)	650 (25.6")	700 (27.6")	700 (27.6")	650 (25.6")
A Roller opening, max.		650 (25.6")	600 (23.6")	600 (23.6")	645 (25.4")
B Opening upper knives		650 (25.6")	640 (25.2")	640 (25.2")	725 (28.5")
C Opening lower knives		706 (27.8")	750 (29.5")	750 (29.5")	—
D Width max.		1720 (67.7")	1950 (76.8")	1950 (76.8")	1560 (61.4")
E Height to vertical knife		1540 (60.6")	1780 (70.1")	1780 (70.1")	1650 (65.0")
F Roller diameter		—	547 (21.5")	547 (21.5")	460 (18.1")
G Height including roller slewing		1720 (67.7")	1920 (75.6")	2080 (81.9")	2000 (78.7")

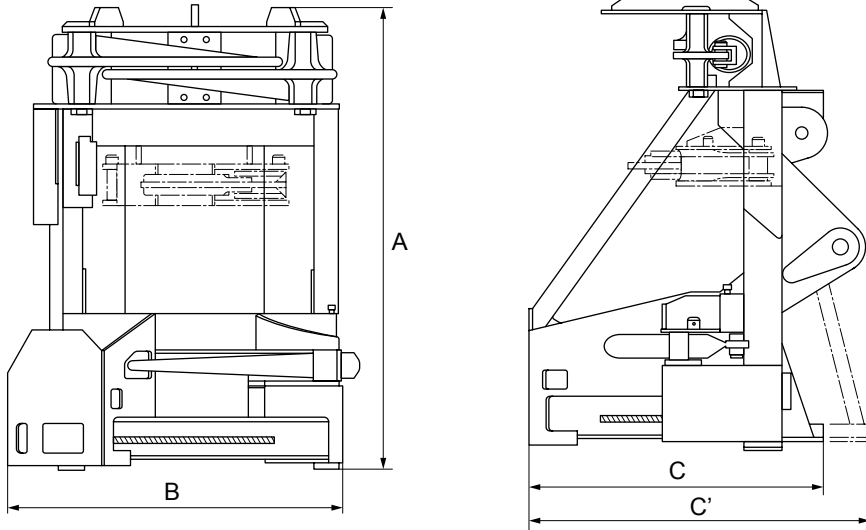
* : Depending on feed roller engine

Harvester head



Item	Model	378			
WEIGHT	kg (lb)	1950 (4,300)			
Incl. Topping saw					
Feed force (gross)	kN kgf	36.3/39.6 3700/4040			
Feed speed	(lbf) m/s (ft/s)	(8,160/8,905) 4.5 (14.8)			
DIMENSIONS:					
Cutting diameter	mm (in)	700 (27.6")			
A Roller opening, max.		650 (25.6")			
B Opening upper knives		675 (28.0")			
C Opening lower knives		—			
D Width max.		1650 (65.0")			
E Height to vertical knife		—			
F Roller diameter		—			
G Height including roller slewing		1995 (78.5")			

Felling head



FVBH0458

Item	Model	233	
SPECIFICATIONS			
Bar saw weight	kg (lb)	1535 (3,390)	
Optional accumulator	kg (lb)	159 (350)	
Optional lateral tilt	kg (lb)	231 (510)	
Cutting capacity	mm (in)	609 (28"), 838 (33")	
Cycle time	sec	2 – 7	
Saw bar length	mm (in)	914 (36") or 1092 (43")	
HYDRAULICS			
Hydraulic requirement	ltr (U.S. Gal)/min	132 (35) – 227 (60)	
System pressure	kg/cm ² (PSI)	175 (2,500) – 257 (3,650)	
DIMENSIONS:			
A: Height	mm (in)	1880 (74")	
B: Width	mm (in)	1359 (53.5")	
C: Length	mm (in)	28" Capacity: 1219 (48")	
C': Length	mm (in)	33" Capacity: 1384 (54.5")	

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SECTION **10**

GENERATOR SETS

CONTENTS

Features 10-2
Specifications 10-3

1. New Engine

Komatsu "Air-to-Air Aftercooled Engine" has been introduced. (Except for EGS45-5 to EGS300-6 , and EGS650-6)

- High Output (Performance)
- Low Fuel Consumption
- Low Noise
- Lighter Weight and Compactness
- Longer Oil Change Interval
- Easy Maintenance
- High Quality, High Reliability, High Durability

2. Easy Operation and Control

2-1.Engine & Generator control panel is arranged in one box, and located in front of Generator.
So the operator can monitor the operating status easily by viewing the meters.

Advantage:

- Simple : Minimized control equipment and wiring
- Easy Maintenance

2-2.Compact Engine Control Unit

EGS Series generators have a compact engine control unit (1 box type) for easy operation and maintenance.

Advantage and Functions

- Microprocessor : Control status and factor are programmed in Microprocessor.
- High Reliability : Engine control circuit is integrated in printed boards.
- Easy selection : A Mode Key Switch for Off / Auto / Manual
- Built-in AMF function : Auto Start / Stop, Cranking with attempts and Cool running are Standard Function.
- Iconic, Symbols and LED : Operating process and Alarm condition can be monitored.

3. High qualified electricity with Brushless, Self-excited AC Alternator

- Maintenance-Free : Brushless, Direct coupling with engine
- High Electric Characteristic : Standard 2/3 pitch windings avoid excessive neutral currents.
- Excellent Voltage Build-Up : Originally designed excited field system and high efficient steel
- Stable Voltage Regulation : Built-in type Automatic Voltage regulator (AVR)
- High Efficient Cooling : Class H insulation with forced air-circulation
- Permanent Magnet Generator (PMG) (Optional) : PMG systems provides constant excitation
- Voltage Adjustment (Optional accessory by model) : The voltage can be adjusted manually.
- Dual Voltage (Optional) : Two kinds of voltage can be given.

4. Safe Running (Protection)

- MCCB (Molded Case Circuit Breaker) can be opened by Over Current automatically.
- The engine can be stopped by High coolant temperature / Low oil pressure automatically
- The engine can be stopped by Over speed .
- Engine stop system : Energized in Run mode
The engine can be stopped automatically in case of the following condition.
(1) Over speed, (2) High coolant temperature, (3) Low oil pressure, (4) Emergency button is pushed.

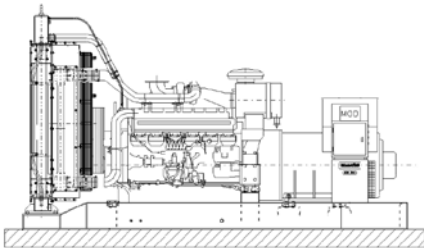
5. Various Generator Type

EGS Series Generator has 4 types.

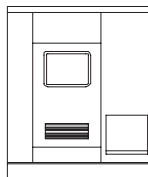
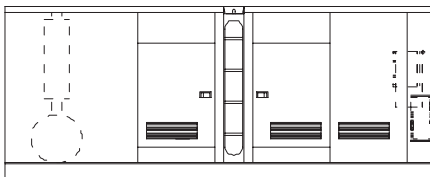
- (1) Bonnet & Soundproof type with Control panel and MCCB : For single operation at residential area
- (2) Non Bonnet type with Control panel and MCCB : For single operation in the room
- (3) Non Bonnet type with Engine control panel : For parallel operation in the room

* Typical Generator Type

Open type for Single operation



Bonnet & Soundproof type



NOTE: Output Rating

- 1) Prime rating applies to continuous power supply. Intermittent overload up to the standby rating is allowed.
- 2) Standby rating is applicable for supplying electric power in the event of normal utility power failure.
No overload capability is available for this Standby rating.
This rating may be used for continuous service as long as the emergency lasts. (Approximately 1 hour.)
- 3) Performance : Horsepower represents of S.A.E. J1349 standards.
- 4) Barometric pressure : 743 mmHg, Temperature : 25°C (77°F), Water vapor pressure : 7.5 mmHg

Item	Model	EGS45BS-6				EGS65BS-6				EGS120BS-6							
	Bonnet & Soundproof Type	—				—				—							
	Bonnet Type	—				—				—							
		EGS45-6				EGS65-6				EGS120-6							
GENERATOR																	
Rated output	Frequency	50 Hz				60 Hz				50 Hz				60 Hz			
	Prime Output	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW		
		35	28	41	33	50	40	58	46	100	80	118	94				
Standby Output	39	31	45	36	55	44	63	51	110	88	129	103					
ENGINE																	
Model		Komatsu 4D95LE-2				Komatsu S4D95LE-2				Komatsu S6D102E							
Horsepower kW (HP)	Prime (at 1500, 1800 RPM)	31.1 (41.7) 36.7 (49.2)				44.8 (60.1) 51.8 (69.4)				92.7 (124) 104.4 (140)							
	Standby (at 1500, 1800 RPM)	34.8 (46.6) 40.2 (53.9)				49.3 (66.1) 58.4 (78.3)				107.4 (144) 121.4 (163)							
No. of cylinders		4 - inline				4 - inline				6 - inline							
Bore × stroke mm (in)		95 × 115 (3.74 × 4.53)				95 × 115 (3.74 × 4.53)				102 × 120 (4.02 × 4.72)							
Piston displacement ltr. (cu.in)		3.26 (199)				3.26 (199)				5.88 (3.59)							
Aspiration		Natural				Turbocharged				Turbocharged							
Electric system	Starter motor	12 V – 2.2 kW				12 V – 2.2 kW				24 V – 4.5 kW							
	Alternator	12 V – 35 A				12 V – 35 A				24 V – 25 A (With Brush)							
	Battery	12 V – 100 Ah × 1				12 V – 100 Ah × 1				12 V – 100 Ah × 2							
GENERATOR SET																	
Capacity ltr. (U.S. Gal)	Coolant	10.3 (2.72)				10.3 (2.72)				19 (5.02)							
	Lubricant	8.0 (2.11)				8.5 (2.25)				22 (5.81)							
	Fuel tank	170 (44.9)				170 (44.9)				200 (52.8)							
Net weight* kg (lb)	Bonnet & Soundproof Type	1200 (2,650)				1200 (2,650)				1900 (4,190)							
	Bonnet Type	—				—				—							
	Open Type**	800 (1,760)				800 (1,760)				1300 (2,870)							
Dimensions (L × W × H) mm	Bonnet & Soundproof Type	2600 × 850 × 1400				2600 × 850 × 1400				3400 × 950 × 1750							
	Bonnet Type	—				—				—							
	Open Type**	1800 × 850 × 1800***				1800 × 850 × 1800***				2200 × 950 × 1510							

Item	Model	EGS240BS-6				EGS300BS-6				EGS360BS-6							
	Bonnet & Soundproof Type	—				—				—							
	Bonnet Type	—				—				—							
		EGS240-6				EGS300-6				EGS360-6							
GENERATOR																	
Rated output	Frequency	50 Hz				60 Hz				50 Hz				60 Hz			
	Prime Output	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW		
		200	160	238	190	276	221	303	242	—	—	360	288				
Standby Output	220	176	261	209	304	243	333	266	—	—	396	317					
ENGINE																	
Model		Komatsu S6D125-1				Komatsu SA6D125-2				Komatsu SAA6D125-P380							
Horsepower kW (HP)	Prime (at 1500, 1800 RPM)	172 (230) 204 (273)				238 (319) 261 (350)				— 310 (415)							
	Standby (at 1500, 1800 RPM)	189 (253) 225 (301)				262 (351) 287 (385)				— 341 (457)							
No. of cylinders		6 - inline				6 - inline				6 - inline							
Bore × stroke mm (in)		125 × 150 (4.92 × 5.91)				125 × 150 (4.92 × 5.91)				125 × 150 (4.92 × 5.91)							
Piston displacement ltr. (cu.in)		11.04 (673)				11.04 (673)				11.04 (673)							
Aspiration		Turbocharged				Turbocharged Aftercooled				Turbocharged Air to Air Aftercooled							
Electric system	Starter motor	24 V – 5.5 kW				24 V – 5.5 kW				24 V – 7.5 kW							
	Alternator	24 V – 35A				24 V – 35A				24 V – 35A							
	Battery	12 V – 150 Ah × 2				12 V – 150 Ah × 2				12 V – 150 Ah × 2							
GENERATOR SET																	
Capacity ltr. (U.S. Gal)	Coolant	34 (9.0)				35 (9.2)				31.6 (8.35)							
	Lubricant	30 (7.93)				40 (10.6)				62 (16.4)							
	Fuel tank	600 (159)				600 (159)				600 (159)							
Net weight* kg (lb)	Bonnet & Soundproof Type	4000 (8,820)				4400 (9,700)				4900 (10,800)							
	Bonnet Type	—				—				—							
	Open Type**	2200 (4,850)				2600 (5,290)				3000 (6,240)							
Dimensions (L × W × H) mm	Bonnet & Soundproof Type	4040 × 1590 × 2170				4040 × 1590 × 2170				4340 × 1590 × 2170							
	Bonnet Type	—				—				—							
	Open Type**	2890 × 1100 × 1570				3000 × 1100 × 1590				3010 × 1280 × 1600							

* Including coolant water and lubricant oil
 ** Excluding silencer
 *** With silencer

NOTE: Output Rating

- 1) Prime rating applies to continuous power supply. Intermittent overload up to the standby rating is allowed.
- 2) Standby rating is applicable for supplying electric power in the event of normal utility power failure.
No overload capability is available for this Standby rating.
This rating may be used for continuous service as long as the emergency lasts. (Approximately 1 hour.)
- 3) Performance : Horsepower represents of S.A.E. J1349 standards.
- 4) Barometric pressure : 743 mmHg, Temperature : 25°C (77°F), Water vapor pressure : 7.5 mmHg

Item	Model	EGS380BS-6				EGS500BS-6				EGS630BS-6														
	Bonnet & Soundproof Type	—				—				—														
	Bonnet Type	—				—				—														
	Open Type	EGS380-6				EGS500-6				EGS630-6														
GENERATOR																								
Rated output	Frequency	50 Hz				60 Hz				50 Hz				60 Hz										
	Prime Output	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW									
		350	280	—	—	—	—	505	404	500	400	—	—	—	—									
	Standby Output	385	308	—	—	—	—	556	445	550	440	—	—	—	—									
ENGINE																								
Model		Komatsu SAA6D125-P400				Komatsu SAA6D140-P460				Komatsu SAA6D140-P580														
Horsepower kW (HP)	Prime (at 1500, 1800 RPM)	298 (400)				—				430 (577)				430 (577)				—						
	Standby (at 1500, 1800 RPM)	328 (440)				—				—				474 (635)				474 (635)				—		
No. of cylinders		6 - inline				6 - inline				6 - inline				6 - inline										
Bore × stroke mm (in)		125 × 150 (4.92 × 5.91)				140 × 165 (5.51 × 6.50)				140 × 165 (5.51 × 6.50)				140 × 165 (5.51 × 6.50)										
Piston displacement ltr. (cu.in)		11.04 (673)				15.24 (930)				15.24 (930)				15.24 (930)										
Aspiration		Turbocharged Air to Air Aftercooled				Turbocharged Air to Air Aftercooled				Turbocharged Air to Air Aftercooled				Turbocharged Air to Air Aftercooled										
Electric system	Starter motor	24 V – 7.5 kW				24 V – 7.5 kW				24 V – 7.5 kW				24 V – 7.5 kW										
	Alternator	24 V – 35A				24 V – 35A				24 V – 35A				24 V – 35A										
	Battery	12 V – 150 Ah × 2				12 V – 200 Ah × 2				12 V – 200 Ah × 2				12 V – 200 Ah × 2										
GENERATOR SET																								
Capacity ltr. (U.S. Gal)	Coolant	31.6 (8.35)				59.5 (15.7)				77.5 (20.5)				77.5 (20.5)										
	Lubricant	62 (16.4)				74 (19.6)				77 (20.3)				77 (20.3)										
	Fuel tank	600 (159)				650 (172)				650 (172)				650 (172)										
Net weight* kg (lb)	Bonnet & Soundproof Type	4900 (10,800)				6300 (13,890)				6300 (13,890)				6300 (13,890)										
	Bonnet Type	—				—				—				—										
	Open Type	3000 (6,610)				3900 (8,600)				3900 (8,600)				3900 (8,600)										
Dimensions (L × W × H) mm	Bonnet & Soundproof Type	4340 × 1590 × 2170				5030 × 1730 × 2200				5030 × 1730 × 2200				5030 × 1730 × 2200										
	Bonnet Type	—				—				—				—										
	Open Type	3010 × 1200 × 1600				3500 × 1510 × 1840				3500 × 1510 × 1840				3500 × 1510 × 1840										

Item	Model	EGS760BS-6				EGS850BS-6				EGS1000BS-7											
	Bonnet & Soundproof Type	—				—				—											
	Bonnet Type	—				—				—											
	Open Type	EGS760-6				EGS850-6				EGS1000-7											
GENERATOR																					
Rated output	Frequency	50 Hz				60 Hz				50 Hz				60 Hz							
	Prime Output	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW	kVA	kW						
		—	—	758	606	705	564	—	—	—	—	920	736	—	—						
	Standby Output	—	—	833	667	776	620	—	—	—	—	1000	800	—	—						
ENGINE																					
Model		Komatsu SAA6D170-P740				Komatsu SAA6D170-P800				Komatsu SAA6D170E-P910											
Horsepower kW (HP)	Prime (at 1500, 1800 RPM)	—				639 (856)				597 (800)				—				772 (1035)			
	Standby (at 1500, 1800 RPM)	—				703 (942)				656 (880)				—				858 (1150)			
No. of cylinders		6 - inline				6 - inline				6 - inline				6 - inline							
Bore × stroke mm (in)		170 × 170 (6.69 × 6.69)				170 × 170 (6.69 × 6.69)				170 × 170 (6.69 × 6.69)				170 × 170 (6.69 × 6.69)							
Piston displacement ltr. (cu.in)		23.15 (1413)				23.15 (1413)				23.15 (1413)				23.15 (1413)							
Aspiration		Turbocharged Air to Air Aftercooled				Turbocharged Air to Air Aftercooled				Turbocharged Air to Air Aftercooled				Turbocharged Air to Air Aftercooled							
Electric system	Starter motor	24 V – 11 kW				24 V – 11 kW				24 V – 11 kW				24 V – 11 kW							
	Alternator	24 V – 35A				24 V – 35A				24 V – 35A				24 V – 35A							
	Battery	12 V – 200 Ah × 2				12 V – 200 Ah × 2				12 V – 200 Ah × 2				12 V – 200 Ah × 2							
GENERATOR SET																					
Capacity ltr. (U.S. Gal)	Coolant	101 (26.7)				101 (26.7)				137 (36.2)				137 (36.2)							
	Lubricant	147 (38.8)				147 (38.8)				141 (37.3)				141 (37.3)							
	Fuel tank	750 (198)				750 (198)				750 (198)				750 (198)							
Net weight* kg (lb)	Bonnet & Soundproof Type	9700 (21,380)				9700 (21,380)				10900 (24,030)				10900 (24,030)							
	Bonnet Type	—				—				—				—							
	Open Type	6000 (13,230)				6000 (13,230)				6700 (14,770)				6700 (14,770)							
Dimensions (L × W × H) mm	Bonnet & Soundproof Type	5710 × 2050 × 2550				5710 × 2050 × 2550				7520 × 2120 × 3200				7520 × 2120 × 3200							
	Bonnet Type	—				—				—				—							
	Open Type	4100 × 1450 × 1980				4100 × 1450 × 1980				4120 × 1790 × 2230				4120 × 1790 × 2230							

* Including coolant water and lubricant oil

NOTE: Output Rating

- 1) Prime rating applies to continuous power supply. Intermittent overload up to the standby rating is allowed.
- 2) Standby rating is applicable for supplying electric power in the event of normal utility power failure.
No overload capability is available for this Standby rating.
This rating may be used for continuous service as long as the emergency lasts. (Approximately 1 hour.)
- 3) Performance : Horsepower represents of S.A.E. J1349 standards.
- 4) Barometric pressure : 743 mmHg, Temperature : 25°C (77°F), Water vapor pressure : 7.5 mmHg

Model	Bonnet & Soundproof Type		EGS1050BS-7				EGS1200BS-6			
	Bonnet Type		—				—			
Item	Open Type		EGS1050-7				EGS1200-6			
GENERATOR										
Rated output	Frequency		50 Hz		60 Hz		50 Hz		60 Hz	
	Prime Output		kVA	kW	kVA	kW	kVA	kW	kVA	kW
			860	688	—	—	1000	800	—	—
Standby Output		915	732	—	—	1100	880	—	—	
ENGINE										
Model		Komatsu SAA6D170E-P970				Komatsu SAA12V140-P1150				
Horsepower kW (HP)	Prime (at 1500, 1800 RPM)		723 (969)		—		861 (1154)		—	
	Standby (at 1500, 1800 RPM)		769 (1031)		—		947 (1269)		—	
No. of cylinders		6 - inline				12 Vee				
Bore × stroke		mm (in)		170 × 170 (6.69 × 6.69)		140 × 165 (5.51 × 6.50)				
Piston displacement		ltr. (cu.in)		23.15 (1413)		30.48 (1860)				
Aspiration		Turbocharged Air to Air Aftercooled				Turbocharged Air to Air Aftercooled				
Electric system	Starter motor		24 V – 11 kW				24 V – 7.5 kW × 2			
	Alternator		24 V – 35A				24 V – 35A			
	Battery		12 V – 200 Ah × 2				12 V – 200 Ah × 4			
GENERATOR SET										
Capacity ltr. (U.S. Gal)	Coolant		137 (36.2)				222 (58.7)			
	Lubricant		141 (37.3)				151 (39.9)			
	Fuel tank		750 (198)				1400 (370)			
Net weight* kg (lb)	Bonnet & Soundproof Type		10900 (24,030)				13600 (29,980)			
	Bonnet Type		—				—			
	Open Type		6700 (14,770)				7700 (16,980)			
Dimensions (L × W × H) mm	Bonnet & Soundproof Type		7520 × 2120 × 3200				7520 × 2120 × 3200			
	Bonnet Type		—				—			
	Open Type		4120 × 1790 × 2230				4170 × 2090 × 2260			

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SECTION **11**

ENGINES

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High quality:

The Komatsu diesel engine is a true achievement of our total engine production system—from casting all the way through machining processes using Komatsu-made machine tools to the final steps of assembly.

Proven reliability

The Komatsu diesel engine is matched with our heavy-duty construction equipment to create a powerful combination of unbeatable performance and high durability.

Economical operations:

The Direct injection system and special fuel-minimizing design of Komatsu diesel engines provide maximum economy. Low lubricant consumption is also a remarkable advantage.

Compact design:

Advanced design and an efficient production system make Komatsu diesel engines compact and lightweight, enhancing their versatility.

Low-noise operation:

Ideal designs keep engine noise and vibration to a minimum.

Wider applications:

A wide range of optional equipment offers a variety of applications to meet specific customer requirements.

Low emission engine:

Komatsu engine meets the emission regulations of North America, Europe, Japan, etc. by employing the advanced technologies. The followings are examples of the technologies.

High-pressure injection system

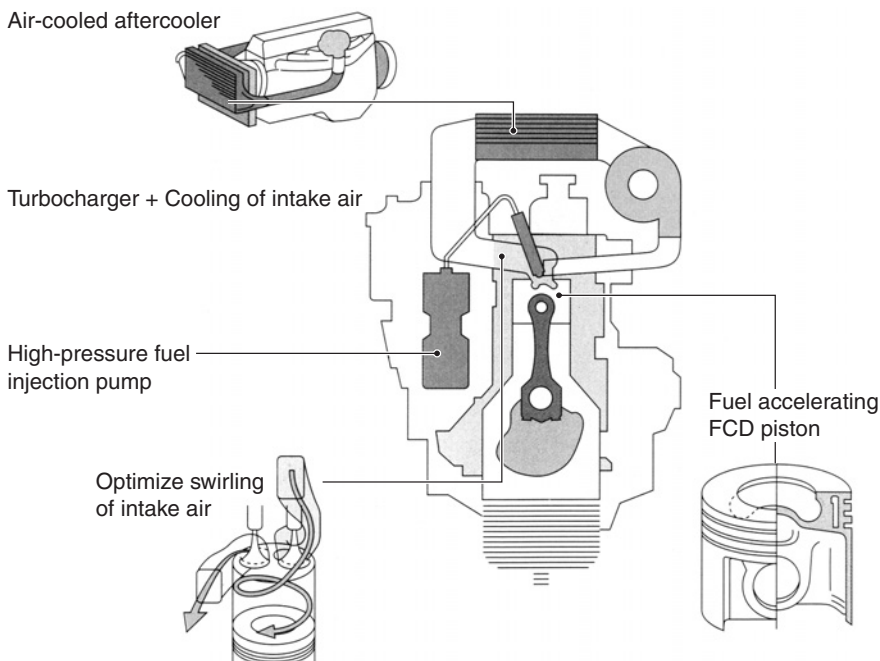
Fuel is sprayed more finely to prevent increase of NO_x and particulate matter by heightening the fuel pressure injected into the cylinder.

Air-cooled aftercooler

Intake air temperature pressurized by the turbocharger is lowered largely by the air-cooled aftercooler having high cooling capacity to prevent increase of NO_x caused by high combustion temperature and increase the intake air density for less fuel consumption.

Optimized shape of combustion chamber by use of FCD piston

The shape of the combustion chamber is optimized by employing an FCD piston having high strength and the air flow speed is heightened by improving the shape of the air intake passage. With these technologies, particulate matter is reduced.

Komatsu low-emission diesel engine

Main Engines Mounted on the Komatsu machines						
MODEL	HORSEPOWER (GROSS) kW (HP)/RPM	CONFIGURA- TION	ASPIRA- TION*	FUEL INJECTION SYSTEM**	DISPLACEMENT ltr. (in ³)	BORE × STROKE mm (in)
4D95LE-5	48.5 (65)/2600	4In-Line	NA	DI	3.26 (199)	95 × 115 (3.74 × 4.53)
4D95LE-2	42 (56)/2100	4In-Line	NA	DI	3.26 (199)	95 × 115 (3.74 × 4.53)
S4D95LE-3	42 (56)/1850	4In-Line	T	DI	3.26 (199)	95 × 115 (3.74 × 4.53)
SAA4D95LE-5	74.3 (100)/2400	4In-Line	TAA	DI	3.26 (199)	95 × 115 (3.74 × 4.53)
SAA6D95LE-1	114 (154)/3000	6In-Line	TAA	DI	4.89 (298)	95 × 115 (3.74 × 4.53)
4D102E-1	52 (69)/2500	4In-Line	NA	DI	3.92 (239)	102 × 120 (4.02 × 4.72)
S4D102E-1	74 (99)/2500	4In-Line	T	DI	3.92 (239)	102 × 120 (4.02 × 4.72)
SA4D102E-1	81 (108)/2500	4In-Line	TA	DI	3.92 (239)	102 × 120 (4.02 × 4.72)
SAA4D102E-2	99 (133)/2200	4In-Line	TAA	DI	3.92 (239)	102 × 120 (4.02 × 4.72)
6D102E-1	74 (99)/2250	6In-Line	NA	DI	5.88 (359)	102 × 120 (4.02 × 4.72)
S6D102E-1	123 (165)/2500	6In-Line	T	DI	5.88 (359)	102 × 120 (4.02 × 4.72)
SA6D102E-2	86 (115)/2300	6In-Line	TA	DI	5.88 (359)	102 × 120 (4.02 × 4.72)
SAA6D102E-2	160 (215)/2000	6In-Line	TAA	DI	5.88 (359)	102 × 120 (4.02 × 4.72)
SAA4D107E-1	110.3 (148)/2200	4In-Line	TAA	DI	4.46 (272)	107 × 124 (4.21 × 4.88)
SAA6D107E-1	166 (222)/2200	6In-Line	TAA	DI	6.69 (408)	107 × 124 (4.21 × 4.88)
S6D108E-2	136 (182)/2500	6In-Line	T	DI	7.145 (436)	108 × 130 (4.25 × 5.12)
SA6D108E-2	180 (242)/2500	6In-Line	TA	DI	7.145 (436)	108 × 130 (4.25 × 5.12)
SAA6D108E-2	199 (266)/2600	6In-Line	TAA	DI	7.145 (436)	108 × 130 (4.25 × 5.12)
S6D114E-1	153 (205)/2200	6In-Line	T	DI	8.27 (505)	114 × 135 (4.49 × 5.31)
SA6D114E-1	176 (236)/1750	6In-Line	TA	DI	8.27 (505)	114 × 135 (4.49 × 5.31)
SA6D114E-2	165.5 (222)/2200	6In-Line	TA	DI	8.27 (505)	114 × 135 (4.49 × 5.31)
SAA6D114E-1	172 (230)/2200	6In-Line	TAA	DI	8.27 (505)	114 × 135 (4.49 × 5.31)
SAA6D114E-2	190 (254)/2200	6In-Line	TAA	DI	8.27 (505)	114 × 135 (4.49 × 5.31)
SAA6D114E-3	213 (286)/2000	6In-Line	TAA	DI	8.27 (505)	114 × 135 (4.49 × 5.31)
6D125E-2	133 (179)/2200	6In-Line	NA	DI	11.04 (674)	125 × 150 (4.92 × 5.91)
S6D125E-2	188 (252)/2200	6In-Line	T	DI	11.04 (674)	125 × 150 (4.92 × 5.91)
SA6D125E-3	220 (296)/2000	6In-Line	TA	DI	11.04 (674)	125 × 150 (4.92 × 5.91)
SAA6D125E-3	276 (370)/2200	6In-Line	TAA	DI	11.04 (674)	125 × 150 (4.92 × 5.91)
SAA6D125E-5	302 (406)/2100	6In-Line	TAA	DI	11.04 (674)	125 × 150 (4.92 × 5.91)
S6D140E-2	294 (394)/2100	6In-Line	T	DI	15.24 (930)	140 × 165 (5.51 × 6.50)
SA6D140E-2	327 (438)/2100	6In-Line	TA	DI	15.24 (930)	140 × 165 (5.51 × 6.50)
SA6D140E-3	316 (423)/2100	6In-Line	TA	DI	15.24 (930)	140 × 165 (5.51 × 6.50)
SAA6D140E-2	390 (523)/2100	6In-Line	TAA	DI	15.24 (930)	140 × 165 (5.51 × 6.50)
SAA6D140E-3	397 (532)/2100	6In-Line	TAA	DI	15.24 (930)	140 × 165 (5.51 × 6.50)
SAA6D140E-5	441 (592)/2000	6In-Line	TAA	DI	15.24 (930)	140 × 165 (5.51 × 6.50)
SA12V140-1	783 (1050)/2100	12V	TA	DI	30.5 (1861)	140 × 165 (5.51 × 6.50)
SDA12V140E-1	671 (899)/2000	12V	TAA	DI	30.5 (1861)	140 × 165 (5.51 × 6.50)
SA12V170E-2	917 (1229)/1800	12V	TA	DI	46.3 (2825)	170 × 170 (6.69 × 6.69)
SA6D170E-3	427 (573)/1800	6In-Line	TA	DI	23.15 (1413)	170 × 170 (6.69 × 6.69)
SAA6D170E-3	713 (956)/2000	6In-Line	TAA	DI	23.15 (1413)	170 × 170 (6.69 × 6.69)
SAA6D170E-5	560 (750)/2000	6In-Line	TA	DI	23.15 (1413)	170 × 170 (6.69 × 6.69)
SAA12V140E-3	895 (1200)/1900	12V	TAA	DI	30.5 (1861)	140 × 165 (5.51 × 6.50)
QSK60	2019 (2700)/1900	16V	TAA	DI	60.2 (3674)	159 × 190 (6.26 × 7.48)

- * Aspiration
 NA: Natural Aspiration
 T: Turbocharged
 TA: Turbocharged and after-cooled
 TAA: Turbocharged and after-cooled (air cooled)
- ** Fuel Injection System
 DI: Direct Injection
 PC: Pre-combustion
 TC: Turbulence-chamber

**Engines Used in KOMATSU
Machines by Engine Model**

ENGINES

Engine Model	Machine					
	Bulldozer	Excavator		Wheel Loader	Dump Truck	Other
3D67E-1		PC18MR-2 PC16R-2	PC14R-2			
3D67E-2A		PC14R-3 PC18MR-3	PC16R-3			
3D68E-3		PC15R-8				
3D76E-5		PC20MR-2				
3D76E-6		PC20MR-3				
3D82AE-3						JW30-2
3D82AE-5		PC27MR-2				
3D82AE-6		PC27MR-3				
3D84E-5		PC30MR-2				
S3D84E-3B				WA30-5 WA50-3		
3D88E-5		PC35MR-2				
3D88E-6		PC30MR-3	PC35MR-3			JV25CW-6 JV40CW-6 JV25DW-6 JV40DW-6
4D88E-5		PC40MR-2 PC55MR-2	PC50MR-2 PC58UU-3			
4D88E-6		PC45MR-3	PC55MR-3	WA50-6		
4D95LE-2	D21A,P-8E0					
4D95LE-2	D21A,P-8					BR100JG-2
4D95LE-3				WA65-5 WA70-5 WA80-5 WA90-5		
S4D95LE-2						EGS65-6
S4D95LE-3		PC78US-6 PC78UU-6 PW98MR-6	PC78MR-8 PC88MR-6	WA100M-5		
SAA4D95LE-5	D31EX/PX-22 D37EX/PX-22	PC78US-8 PC138US/LC-8 PC78UU-8	PC88MR-8 PC130-8	WA100M-6 WA150-6		
S6D95L-1						GD511A-1
SAA6D95LE-3		PC130-7				
SAA6D95LE-5						
4D98E		PC75R-2	PW75R-2			WB70A-1
S4D102E-1		PC120-6	PC130-6	WA120-3		
S4D102LE-2						WB142-5 WB146-5 WB146PS-5 WB156-6 WB156PS-6
SAA4D102E-2	D31EX/PX-21 D37EX/PX-21 D39EX/PX-21	PC120LC-6		WA150-5		
4D104E-2						WB91R-5
S4D104E-3						WB93R-5 WB97R-5 WB93S-5
S6D102E-1						CD60R-1
S6D102E-2				WA180-3 WA250-3		EGS90-6 EGS120-6
SA6D102E-2				WA320-3CU		
SAA6D102E-2	D41E/P-6	PC200/LC-7 PC220/LC-7	PC270/LC-7 PC228US/LC-3	WA200/PT-5 WA250/PT-5 WA320-5		BZ210 BR380JG-1 BR120T GD555-3 CD110R-2
S6D105-1						GD611A-1 GD661A-1
4D106E		PC95R-2				WB91R
4D106-1FB		PW110R-1				
SAA4D107E-1	D39EX/PX-22	PC160LC-8 PW140-7	PC160-7E0 PC180LC-7E0 PW160-7	WA200PZ-6 WA200-6		
SAA6D107E-1	D51EX-22 D51PX-22 D61EX-15E0 D61PX-15E0	PC200/LC-8 PC220/LC-8 PC270/LC-8 PC210LC-8 PC228US-3E0 PW200-7	PC240LC-8 PC230NHD-8 PC290LC-8 PW220-7 PW180-7	WA250-6 WA320-6 WA380-6 WA250PZ-6 WA320PZ-6		GD555-5 GD655-5 GD675-5
S6D108-1				WA320-3 WA380-3		
SA6D108-2				WA420-3		
SA6D108E-2						WF350-3
S6D114E-1	D68ESS-12					
S6D114E-1A	D68ESS-12A					

**Engines Used in KOMATSU
Machines by Engine Model**

ENGINES

Engine Model	Machine					
	Bulldozer	Excavator		Wheel Loader	Dump Truck	Other
SA6D114E-2	D61EX-15 D61PX-15 D63E-12					
SAA6D114E-2		PC300/LC-7 PC350/LC-7	PC340LC-7	WA380-5		GD655-3A GD675-3A
SAA6D114E-3	D65EX-16 D65PX-16 D65WX-16	PC300/LC-7E0 PC350/LC-7E0	PC300/LC-8 PC350/LC-8	WA430-6		GD655-3E0 GD675-3E0
6D125E-2	D65E-12					
S6D125E-2	D65P-12 D85C-21 D85ESS-2A					CS210
S6D125-1				WA470-3		GD705A-4 EGS240-6 EGS300-6
SA6D125E-2						
SAA6D125E-2						BR200T-2
SA6D125E-3	D65EX-15 D65PX-15 D65WX-15 D85EX-15 D85PX-15					
SAA6D125E-3		PC400/LC-7 PC450/LC-7		WA430-5 WA470-5 WA480-5	HM300-1 HD255-5	
SAA6D125E-5	D85EX-15E0 D85PX-15E0 D85EX-15R D85PX-15R	PC400/LC-7E0 PC450/LC-7E0 PC400/LC-8 PC450/LC-8	PC400/LC-8R PC450/LC-8R	WA470-6 WA480-6 WA450-6	HM300-2 HM300-2R HM250-2	BR580JG-1
S6D140E-2						GD825A-2 WD500-3
SA6D140-2	D155C-1 D355C-3					
SA6D140E-2	D155A-2A D155A-5					
SA6D140E-3	D155AX-5	PC600/LC-7		WA500-3	HD325-6 HD405-6	CS360-2
SAA6D140E-3		PC750-7 PC800-7				
SAA6D140E-5	D275A-5R D275AX-5E0 D155AX-6 D155A-6	PC600/LC-8 PC600/LC-8R	PC800-8 PC800-8R PC850-8 PC850-8R PC800LC-8	WA500-6 WA500-6R	HD325-7 HD325-7R HD405-7 HD405-7R HM350-2 HM350-2R	
SDA6D140E-3	D275A/AX-5					
SDA12V160					HD1500-7	
SA6D170E-3	D375A-5					
SA6D170E-5						
SAA6D170E-3		PC1250/LC-7 PC1250SP-7		WA600-3 WA700-3	HD465-7 HD605-7	
SAA6D170E-5	D375A-6 D375A-6R	PC1250/LC-8 PC1250SP-8	PC1250-8R PC1250SP-8R	WA600-6 WA600-6R	HD465-7R HD605-7R HD465-7E0 HD605-7E0	WD600-6
SA12V140-1				WA800-3 WA900-3	HD785-5 HD985-5	
SAA12V140E-3	D475A-5E0 D475ASD-5E0	PC2000-8		WA800-3E0 WA900-3E0	HD785-7	
SDA12V140-1	D475A-5					
SA12V170E-3	D575A-3					
SS12V159		PC3000-6	PC5500-6			
SSA16V159					730E	
SDA16V160					830E	
SSDA16V160					930E-4 860E-1K	
SDA16V160		PC4000-6	PC8000-6		830E-AC	
SSDA18V170					930E-4SE 960E	
QSK60				WA1200-3		

Fueling deration rate

	ENGINE	0 ~ 750 m (0 ~ 2500 ft.)	750 ~ 1500 m (2500 ~ 5000 ft.)	1500 ~ 2300 m (5000 ~ 7500 ft.)	2300 ~ 3000 m (7500 ~ 10000 ft.)	3000 ~ 3800 m (10000 ~ 12500 ft.)	3800 ~ 4600 m (12500 ~ 15000 ft.)
D31EX/PX-21	SAA4D102E-2	100	100	100	100	—	—
D31EX/PX-22*	SAA4D95LE-5	100	100	100	100	97	97
D37EX/PX-21	SAA4D102E-2	100	100	100	100	—	—
D37EX/PX-22*	SAA4D95LE-5	100	100	100	100	97	97
D39EX/PX-21	SAA4D102E-2	100	100	100	100	—	—
D39EX/PX-22*	SAA4D107E-1	100	100	100	98	97	85
D41E/P-6	S6D102E-1	100	100	100	—	—	—
D51EX/PX-22*	SAA6D107E-1	100	100	100	—	—	—
D61EX/PX-15E0*	SAA6D107E-1	100	100	100	—	—	—
D61EX-15	SA6D114E-2	100	100	100	100	—	—
D63E-12	SA6D114E-2	100	100	100	100	—	—
D65EX/P/PX-12	S6D125E-2	100	100	100	100	100	96
D65EX-12	SA6D125E-3	100	100	100	100	100	96
D65EX/PX/PW-15	SA6D125E-3	100	100	100	100	100	97
D65EX/PX/PW-15E0*	SAA6D114E-3	100	100	100	100	99	—
D65EX/PX/WX-16*	SAA6D114E-3	100	100	100	100	97	—
D85EX/PX-15	SAA6D125E-3	100	100	100	100	97	94
D85EX/PX-15E0*	SAA6D125E-5	100	100	100	100	100	100
D85EX/PX-15R*	SAA6D125E-5	100	100	100	100	100	100
D85ESS-2	S6D125E-2	100	100	100	100	100	96
D155A-2	SA6D140E-2	100	100	100	100	90	82
D155A-5	SA6D140E-2	100	100	100	100	97	86
D155A-6*	SAA6D140E-5	100	100	100	—	—	—
D155AX-5	SA6D140E-2	100	100	100	98	89	81
D155AX-5	SA6D140E-3	100	100	100	100	90	80
D155AX-6*	SAA6D140E-5	100	100	100	—	—	—
D275A-5	SDA6D140E-3	100	100	100	100	100	90
D275A-5R	SAA6D140E-5	100	100	100	100	98	93
D275AX-5	SDA6D140E-3	100	100	100	100	100	90
D275AX-5E0*	SAA6D140E-5	100	100	100	100	96	90
D375A-5*	SA6D170E-3	100	100	100	93	84	78
D375A-5R*	SAA6D170E-5	100	100	100	100	96	92
D375A-5E0*	SAA6D170E-5	100	100	99	95	88	82
D375A-6*	SAA6D170E-5	100	100	97	92	87	80
D375A-6R*	SAA6D170E-5	100	100	100	100	95	89
D475A-5	SDA12V140-1	100	100	100	100	100	94
D475A/ASD-5E0#	SAA12V140E-3	100	100	100	98	97	94
D575A-3	SA12V170-1	100	100	100	100	—	—
D575A-3 SD	SA12V170-1	100	100	100	100	—	—
PC78US-6	4D95LE-2	100	100	100	—	—	—
PC78US-8*	SAA4D95LE-5	100	100	100	100	—	—
PC88MR-8*	SAA4D95LE-5	100	100	100	100	—	—
PC120-6	S4D102E-1	100	100	100	—	—	—
PC130-8*	SAA4D95LE-5	100	100	100	100	95	90
PC138US/LC-2	SAA4D95LE-3	100	100	100	100	95	90
PC138US/LC-8*	SAA4D95LE-5	100	99	98	97	96	90
PC160LC-7E0*	SAA4D107E-1	100	100	100	100	—	—
PC160LC-8*	SAA4D107E-1	100	100	100	100	—	—
PC200/LC-6	S6D102E-1	100	100	100	100	95	90
PC200/LC-7	SAA6D102E-2	100	100	100	100	90	85
PC200/LC-8*	SAA6D107E-1	100	100	100	100	100	95
PC220/LC-6,PC270LC-6	SA6D102E-1	100	100	100	100	91	83
PC220/LC-7	SAA6D102E-2	100	100	100	100	90	85
PC220/LC-8*	SAA6D107E-1	100	100	100	100	99	92
PC270/LC-7	SAA6D102E-2	100	100	100	95	90	85
PC270/LC-8*	SAA6D107E-1	100	100	100	100	92	76
PC228US/USLC-3	SAA6D102E-2	100	100	100	—	—	—

NOTE: (1) The percentages listed above are for standard machines.
(2) These values at each altitude range indicate the percentage of the fueling deration rate against standard fueling calibration. 100 percent means that no fuel derate is required.
(3)*: With automatic altitude deration
(4)*: Automatic deration depending on altitude and turbo inlet air temperature (ambient temperature) Applied only to SAA12V140E-3

	ENGINE	0 ~ 750 m (0 ~ 2500 ft.)	750 ~ 1500 m (2500 ~ 5000 ft.)	1500 ~ 2300 m (5000 ~ 7500 ft.)	2300 ~ 3000 m (7500 ~ 10000 ft.)	3000 ~ 3800 m (10000 ~ 12500 ft.)	3800 ~ 4600 m (12500 ~ 15000 ft.)
PC228US/USLC-3E0*	SAA6D107E-1	100	100	100	100	100	95
PC300/LC-6,PC350/LC-6	SAA6D108E-1	100	100	100	100	95	85
PC300/LC-7,PC350/LC-7	SAA6D114E-2	100	100	100	93	82	75
PC300/LC-7E0*	SAA6D114E-3	100	100	100	93	—	—
PC350/LC-7E0*	SAA6D114E-3	100	100	100	93	—	—
PC300/350/LC-8*	SAA6D114E-3	100	100	100	93	—	—
PC400/LC-6,PC450/LC-6	SA6D125E-2	100	100	100	100	90	85
PC400/LC-7,PC450/LC-7	SAA6D125E-3	100	100	100	100	95	90
PC400/LC-7E0*	SAA6D125E-5	100	100	98	95	87	82
PC450/LC-7E0*	SAA6D125E-5	100	100	98	95	87	82
PC400/450/LC-8*	SAA6D125E-5	100	100	98	95	87	82
PC400/450/LC-8R*	SAA6D125E-5	100	100	100	99	92	82
PC600/LC-7	SA6D140E-3	100	100	100	92	85	78
PC600/LC-8*	SAA6D140E-5	100	100	100	100	96	88.5
PC600/LC-8R*	SAA6D140E-5	100	100	100	100	97	89
PC750-6,PC800-6	SAA6D140E-2	100	100	100	100	100	95
PC750-7,PC800-7	SAA6D140E-3	100	100	100	100	100	93
PC800-8,PC850-8*	SAA6D140E-5	100	100	98	92	84	76
PC800-8,PC850-8R*	SAA6D140E-5	100	100	100	100	96	88
PC1250-7*	SAA6D170E-3	100	100	100	100	100	93
PC1250-8*	SAA6D170E-5	100	100	98	95	89	81
PC1250-8R*	SAA6D170E-5	100	100	100	100	94	89
PC2000-8**	SAA12V140E-3	100	100	100	100	94	89
PC3000-6	SAA12V159	100	100	100	100	92	84
PC4000-6	SDA16V160	100	100	100	100	100	92
PC5500-6	SSA12V160	100	100	100	100	92	84
PC8000-6	SDA16V160	100	100	100	100	96	86
HD255-5	SAA6D125E-3	100	100	100	100	94	87
HD325-6, HD405-6	SAA6D140E-2	100	100	100	100	90	83
HD325-6,HD405-6	SAA6D140E-3	100	100	100	100	97	86
HD325-7,HD405-7*	SAA6D140E-5	100	100	100	98	92	82
HD325-7R,HD405-7R*	SAA6D140E-5	100	100	100	100	96	89
HD465-5, HD605-5	SAA6D170E-2	100	100	100	98	90	83
HD465-7,HD605-7*	SAA6D170E-3	100	100	100	100	94	86
HD465-7E0,HD605-7E0*	SAA6D170E-5	100	100	97	92	85	79
HD465-7R,HD605-7R*	SAA6D170E-5	100	100	100	100	93	88
HD785-5, HD985-5	SA12V140-1	100	100	100	95	85	75
HD785-7**	SAA12V140E-3	100	100	100	98	95	86
HM250-2*	SAA6D125E-5	100	100	100	100	100	95
HM300-1	SAA6D125E-3	100	100	100	100	93	86
HM300-2*	SAA6D125E-5	100	100	100	93	85	78
HM300-2R*	SAA6D125E-5	100	100	100	100	95	86
HM350-1	SAA6D140E-3	100	100	100	100	100	100
HM350-2*	SAA6D140E-5	100	100	100	100	99	93
HM350-2R*	SAA6D140E-5	100	100	100	100	100	100
HM400-1	SAA6D140E-3	100	100	100	100	100	100
HM400-2*	SAA6D140E-5	100	100	100	100	99	93
HM400-2R*	SAA6D140E-5	100	100	100	100	100	94
WA150-5	SAA4D102E-2	100	100	100	100	86	75
WA150-6*	SAA4D95LE-5	100	100	94	89	80	71
WA200-5	SAA6D102E-2	100	100	100	99	91	86
WA200-6*	SAA4D107E-1	100	100	100	91	83	69
WA200PZ-6*	SAA4D107E-1	100	100	100	91	83	69
WA250-6*	SAA6D107E-1	100	100	100	100	100	100
WA250PZ-6*	SAA6D107E-1	100	100	100	100	100	100
WA320-3	S6D108-1	100	100	100	100	95	—
WA320-3 CUSTOM	S6D102E-1	100	100	100	95	85	73

- NOTE:** (1) The percentages listed above are for standard machines.
(2) These values at each altitude range indicate the percentage of the fueling deration rate against standard fueling calibration. 100 percent means that no fuel derate is required.
(3)*: With automatic altitude deration
(4)**: Automatic deration depending on altitude and turbo inlet air temperature (ambient temperature) Applied only to SAA12V140E-3

	ENGINE	0 ~ 750 m (0 ~ 2500 ft.)	750 ~ 1500 m (2500 ~ 5000 ft.)	1500 ~ 2300 m (5000 ~ 7500 ft.)	2300 ~ 3000 m (7500 ~ 10000 ft.)	3000 ~ 3800 m (10000 ~ 12500 ft.)	3800 ~ 4600 m (12500 ~ 15000 ft.)
WA320-5	SAA6D102E-2	100	100	100	82	78	65
WA320-6*	SAA6D107E-1	100	100	100	90	84	78
WA320PZ-6*	SAA6D107E-1	100	100	100	90	84	78
WA380-3	S6D108-1	100	100	100	—	—	—
WA380-5	SAA6D114E-2	100	100	100	96	87	80
WA380-6	SAA6D107E-1	100	100	100	100	90	75
WA420-3	SA6D108-1	100	100	100	—	—	—
WA430-5	SAA6D125E-3	100	100	100	100	100	95
WA430-6*	SAA6D114E-3	100	100	100	93	87	—
WA470-3	S6D125-1	100	100	100	100	93	86
WA470-3	SA6D125E-2	100	100	100	100	100	92
WA470-5	SAA6D125E-3	100	100	100	100	100	93
WA470-6*	SAA6D125E-5	100	100	100	100	94	88
WA480-5	SAA6D125E-3	100	100	100	100	100	92
WA480-6*	SAA6D125E-5	100	100	100	90	84	78
WA500-3	S6D140E-2	100	100	100	93	86	80
WA500-3	SA6D140E-3	100	100	100	98	91	85
WA500-6*	SAA6D140E-5	100	100	100	—	—	—
WA500-6R*	SAA6D140E-5	100	100	100	100	95	86
WA600-3	S6D170E-2	100	100	100	93	85	80
WA600-3*	SAA6D170E-3	100	100	100	95	88	83
WA600-6	SAA6D170E-5	100	100	97	92	86	80
WA600-6R*	SAA6D170E-5	100	100	100	100	95	90
WA700-3	SAA6D170E-2	100	100	100	100	93	87
WA700-3*	SAA6D170E-3	100	100	96.5	92	84	76
WA800-3, WA900-3	SA12V140-1	100	100	100	95	90	80
WA800-3E0**	SAA12V140E-3	100	100	100	98	92	83
WA900-3E0**	SAA12V140E-3	100	100	100	95	88	78
WA1200-3	QSK60	100	100	100	100	—	—
WD500-3	S6D140E-2	100	100	100	93	86	80
WD600-3	SAA6D170E-3	100	100	100	95	88	83
WD600-6	SAA6D170E-5	100	100	97	92	86	80
WD900-3	SA12V140-1	100	100	100	95	90	80
GD511A-1	S6D95L-1	100	100	100	95	—	—
GD555-3	SAA6D102E-2	100	100	100	97	90	82
GD555-5*	SAA6D107E-1	100	100	100	100	98	89
GD611A-1	S6D125-1	100	100	100	—	—	—
GD655-3	SAA6D114E-2	100	100	100	100	100	96
GD655-5*	SAA6D107E-1	100	100	100	94	89	85
GD661A-1	S6D105-1	100	100	100	—	—	—
GD675-3	SAA6D114E-2	100	100	100	100	96	90
GD675-5*	SAA6D107E-1	100	100	100	94	89	85
GD705A-4	S6D125-1	100	100	100	100	100	96
GD825A-2	S6D140E-2	100	100	100	100	100	94

- NOTE:** (1) The percentages listed above are for standard machines.
(2) These values at each altitude range indicate the percentage of the fueling deration rate against standard fueling calibration. 100 percent means that no fuel derate is required.
(3)*: With automatic altitude deration
(4)**: Automatic deration depending on altitude and turbo inlet air temperature (ambient temperature) Applied only to SAA12V140E-3

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SECTION **12**

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Service	TRA classification	Tread	Use
Earthmover	E-1	Rib	For front wheels of dump trucks
	E-2	Traction	For scrapers used on sandy ground and soft soil where traction is necessary.
	E-3	Rock	For dump trucks and scrapers used where resistance against external damage and abrasion is important.
	E-4	Rock Deep Tread	For scrapers and dump trucks used where resistance against external damage and abrasion is required.
	E-7	Flotation	For carry-all scrapers stronger than E3, used where only flotation is needed.
Grader	G-1	Rib	For front wheels of graders.
	G-2	Traction	For rear wheels of graders used where traction is necessary.
	G-3	Rock	For rear wheels of graders used where resistance against external damage and abrasion is necessary, rather than traction.
Loader	L-2	Traction	For loaders and dozers used on sandy ground where traction is necessary.
	L-3	Rock	For loaders and dozers used on mountain sand and on rocks where resistance against external damage and abrasion is necessary.
	L-4	Rock Deep Tread	For loaders and dozers used where resistance against external damage and abrasion is required to be stronger than those of L3.
	L-4S	Smooth Deep Tread	For loaders and dozers used where resistance against external damage and abrasion is required to be stronger than those of L-3S.
	L-5	Rock Extra-Deep Tread	For loaders and dozers used where resistance against external damage and abrasion is required to be stronger than L4.
	L-5S	Smooth Extra-Deep Tread	For loaders used where resistance against external damage and abrasion is required to be stronger than that of L-4S.
Compactor	G-1	Smooth Tread	For Tire rollers
Log-skidder	G-1	Intermediate	For skidder

**Tire Manufacturer's
Designation**

TIRES

TIRE PATTERN

TRA classification	Maker				
	BRIDGESTONE	MICHELIN	TOYO	GOODYEAR	YOKOHAMA
E1		XRIB			
E2	*VKT, VHS VSB, VFT ●VLT	XGC, XHC, XLB XMP, XS, XVC XNOPLUS Indice E		●GP-2B ●RL-2+	
E3	*VEL, *L317 *RL, *WL *VL2, ●VMT ●VSTL	●XADN XAD65, XHAD XKB, XTS, XRB XRDN	●T-332, ●T-351 ●T-352, *G-18	●GP-3D, ●TL-3A+ *HRL-3A, *EV-3+ *RL-3+	●RT31, ●RL31 ●RB31 *Y-38, *Y-67
E4	*VELS, *VRLS *VRLSA, *ELS2 *RLS, *VMTP *VZTP, *VMTS *RLS2, *VALS ●VLTS	*X-QUARRY *XDTA4 *XDRA ●XADT XDC, XDM, XHD1 XHAUL, XKD1 XRS, XZH	*T-431, *T-433 *T-451, *T-452 *T-452A, *T-452B *T-453, *G-18ET *G-36ET *G-36ETB	●GP-4BAT ●GP-4D *HRL-4B, *GP-4C *RT-4A, *GP-4B *RL-4J/4J II *RL-4H/4H II *RL-4A, *RL-4B	*RB41, *Y-523 *Y-530, *Y-523U
E7	VSJ, AL, SCP2	XRIB, XS			
G1	RG		R-3		Y-37
G2	VKT, FG, GL	XGLA2, XMPS XSNOPPLUS, XTLA	G-15, G-15A G-57S		RT21, Y-103 Y-25, Y420
G3		XHA, XHAD, XHF XLD, XRA, XRDN			Y-67
G4		XLDD1, XRD1			
G5		XLDD2			
L2	FG	XM27, XM37 XGLA2, XMPS XTLA XSNOPPLUS	G-15, G-15A G-22		Y103
L3	VSTL, TL VL2, VL2A VMT, RL	XHA, XHAD, XHF XKA, XLD, XRA XRDN, XZSL STABIL'X XZSL	T-332, T-351 T-352, G-39 G-18, G-18A G-18S, G-62		RT31, RL31, RB31 Y-575, Y-67 Y-526
L4	NL, RLS RLS2	XRD1A XDD1A XMINED1 XKD1, XLDD1	G-64, T-453 G-18ET		Y-545, Y-67ET Y-522, Y-69ET Y-69KET, Y-69U
L5	VSDL, VSDT DL DL2, DL2A	XLDD2A XMINED2 XRD2	G-65A, S-26 G-65, S-26 G-25, G-55		Y-524, Y524Z Y69KSET, Y-69SET Y-525, Y-69U

* : For Rigid Dump Truck

● : For Articulated Dump Truck

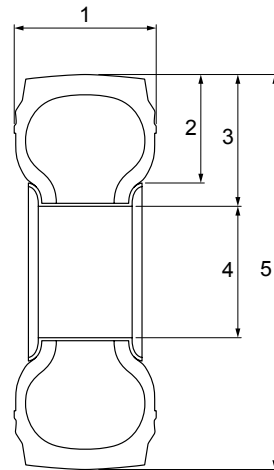
1. TIRE SIZE DESIGNATION

Indicating dimensions of tire:

Generally speaking the designation of tires refers to their size in inches and their ply rating (PR). The size of a tire means the width of and the diameter of the rim (inside diameter of tire), while the ply rating shows the strength of the carcass.

1. Tire width (cross-sectional width)
2. Tire height
3. Cross-sectional height
4. Rim diameter
5. Tire outside diameter

Bias	Nominal tire width 24.00	-	Nominal rim diameter 49	-	Ply rating 48PR
Radial	Nominal tire width 24.00	-	Nominal rim diameter 49	-	Star mark ★ ★



FVBH0367

Nowadays the ply rating shows the strength of the tire; it no longer shows the number of layers of cord cloth. Originally the term "ply" did in fact refer to the number of layers of cord cloth, and was therefore an indication of the tire strength. But with the development of new materials, the original cotton cord cloth changed first to rayon and has now been replaced by nylon or steel wire.

This has made it possible to greatly increase the strength without increasing the number of layers of material. Consequently the term "ply rating" has come to be used to indicate the strength of the tire rather than to express the actual number of plies.

Stars (*, **, ***) are used to indicate the strength of radial tires.

2. STRUCTURE AND FUNCTION OF TIRE

2-1 Conventional Tire

a) Tread

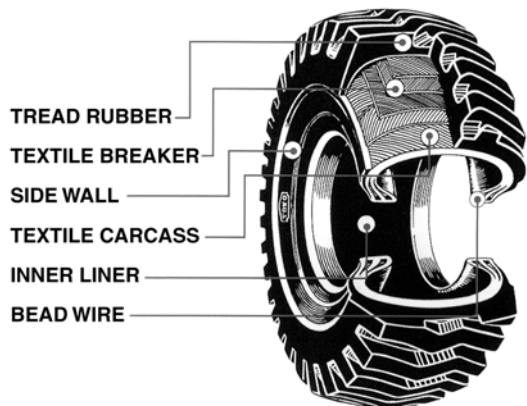
The tread compound used is resistant to abrasions and cuts. Tread patterns give the tire good traction, longer serviceability and higher resistance to cutting.

b) Breaker

Extra layers of rubber-coated cord are placed between the outer plies and the tread. They prevent cuts reaching the ply cords through tread, and absorb shocks.

c) Plies

A tire is composed of several layers of plies, coated on both sides by a rubber compound. These maintain inflation pressure of the tires supporting load. These plies are made of high tensile nylon cord.



The term "Ply Rating", according to the Tire and Rim Association (TRA), is defined as follows:

"A given tire with its maximum recommended load when used in specific type service. It is an index of tire strength and does not necessarily represent the number of cord plies in the tire."

d) Inner liner

The inner liner is a rubber layer covering the inside from bead to bead of a tubeless tire, corresponding to the tube of an ordinary tube tire. It prevents the loss of inflation pressure of the tire.

e) Beads

Beads are the parts which fix the tire to the rim. All plies are tied into bundles of steel wire. The beads fit on the rim perfectly, preventing the tire from slipping out of the rim contour while the vehicle is in motion.

f) O-Ring (rim packing)

When the tire is inflated this rubber ring prevents air breaking through gaps in the rim.

g) Side-walls

Side-walls are covers made of a flexible rubber compound to protect the sides of the tire. Side-walls are designed to cushion the plies from shocks and cuts, and to flex and bend without cracking, under ordinary usage.

h) Tubes and Flaps

Function of the tube is to retain air or inert gases under pressure within the cord body. The flap protects the tube from damage by the rim and tire beads.

2-2 Shredded Wire Under Tread Tire

Shredded wire under tread tire has a special rubber layer strengthened by the shredded wire between the tread and breaker. The shredded wire rubber-layer has the following benefits.

- (1) Protects against cuts, not only reducing repair expenses, but improving the overall performance of vehicles.
- (2) Prevents small cuts from spreading.
- (3) Prevents penetration into the tire of water, dust, mud and pebbles, which can lead to cut-separation.
- (4) Cut-free strength ensures a greater number of recaps.

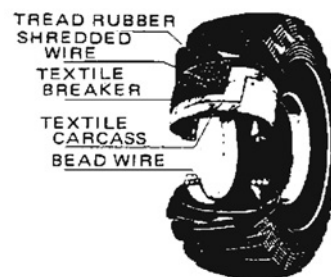


Fig.3 Construction of shredded wire under tread tire

2-3 Steel Breaker Tire

Rock pattern tires often feature breaker material. The breaker was changed from nylon to steel in order to resist cuts and cut bursts.

- (1) Tread cuts do not extend to bursting.
- (2) Puncturing of tires is reduced.
- (3) There is less carcass damage to the tire so that tire can be re-treaded many times.

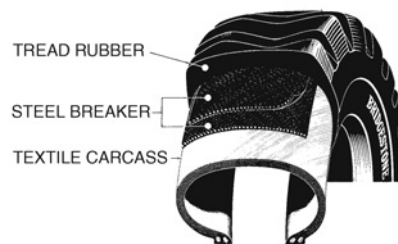


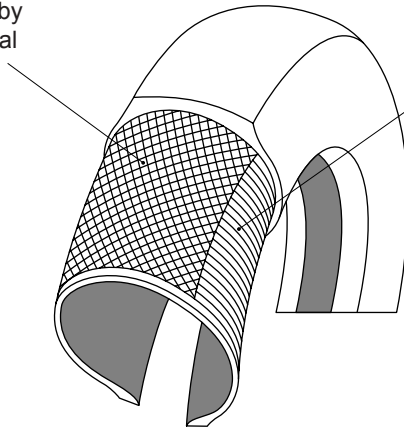
Fig.4 Construction of steel breaker tire

2-4 Side Steel Breaker Tire

In this tire the steel breaker is extended to the side-wall of the tire to protect it against side damage. The construction is similar to that described above.

2-5 Radial Tire

The crown is stabilized by a belt made up of several plies.



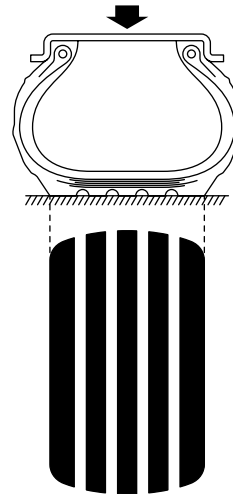
The casing has only one radial ply.

FVBH0370

The side-wall and tread areas function separately. The tread is unaffected by the flexing of the side-walls, so there is:

- less deformation of the tire contact areas on the ground ;
- less friction with the ground.

There is no movement between casing plies.



FVBH0371

3. COMPARISON OF BIAS AND RADIAL TIRES

3-1 Structure and features of tires

	Structure of radial tires	Structure of bias tires
Carcass	The carcass cord faces in a radial direction (at 90° across the tire). • There is one layer (ply)	The carcass cord faces at bias (angle to the tire). • Several plies are placed on top of each other and at an angle to each other.
Side wall	Only a single ply is used, so the side wall is flexible. • To improve the resistance of the side wall to cuts, the carcass is turned up.	The plies are placed on top of each other at an angle, so the side wall is thick.
Tread	To distribute the load around the circumference there is a steel belt layer which gives the tread high rigidity.	A breaker is used to protect the carcass and to prevent the tread and carcass from separating (Normally, a nylon breaker is used. Steel breakers are not suited for high speed travel.)
Bead	Single bead structure	There are multiple plies, so there are also multiple beads. (For dump trucks, there are normally three).
Tire inflation pressure	Because of the structure of the tire, the inflation pressure is higher than with bias tires.	Normally 5 - 7 kg/cm ²

3-2 Suitable tire

Feature required	Suitable		
	Radial	Bias	
Wear life	○		
High speed travel (heat resistance)	○		
Cut resistance	Penetration resistance	○	
	Sidecut resistance		○
Fuel consumption	○		
Travelability (traction, flotation) Riding comfort	○		
	○		
Cost	Initial cost		○
	Operating cost	○	

4. TREAD PATTERN

The tread pattern can be divided broadly into the type in Fig. 1, which has no circumferential groove in the tread center, the type in Fig. 2, which has transversal grooves, and the type in Fig. 3, which has a block pattern. Generally speaking, the first type provides excellent resistance to cutting and wear, while the second type provides excellent traction on slippery surfaces. The block pattern is typical of radial tires giving good all round performance.

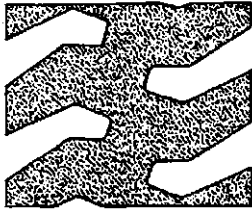


Fig. 1

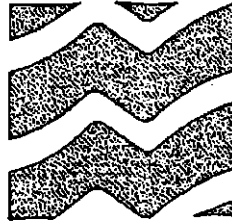


Fig. 2

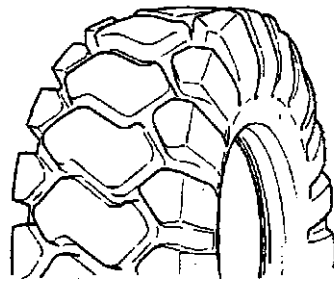


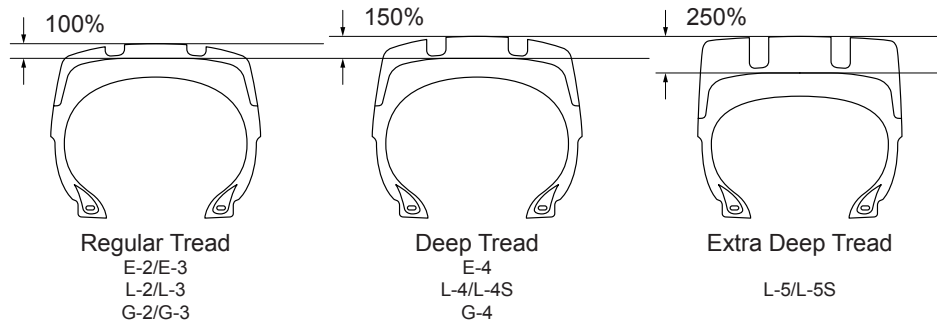
Fig. 3

5. DEPTH OF TREAD GROOVE ON ROCK-TYPE TIRES

There are the following depths of grooves for dump truck tires. The main feature of the deep groove tire is the large amount of wear tolerance.

Table 2-2

Category of groove depth	TRA code	General use	Groove depth
General groove	E3	Hard soil, general	100
Deep groove	E4	When it is necessary to have greater resistance to external damage and resistance to wear than with E 3.	Approx. 150



FVBH0369

6. TKPH (TMPH)

The primary task of heavy-duty tires is to haul heavy loads faster and over longer distances. This heavy load hauling inevitably results in heat built-up inside the tires, and tires have limitation of temperature.

If this limitation is reached, deterioration of the tire will begin at an early stage of operation. Accordingly, it is necessary when selecting tires, to determine the amount of work will keep the tire within a safe range to avoid over-heating when a vehicle is operated under given conditions.

The amount of work done under the given conditions and within a safe range is shown as the "TON-KILO-PER-HOUR" ("TON-MILE-PER-HOUR") which can be determined by the following formula:

TKPH(TMPH) = (Average tire load) × (Average speed)

Average tire load = 1/2 (tire load when vehicle carries no load + tire load when vehicle is loaded)

Average speed = $\frac{\text{round trip distance} \times \text{number of job cycles per day}}{\text{total hours of operation per day}}$

- Total hours of operation include recess and dead time.

7. TIRE CHARACTERISTICS

The optimum tires should be selected for their applicable operation or job and terrain conditions depending on the cutting (wear) resistance and heat resistance. These resistant qualities are indicated as follows:

(1) CR (cutting resistance)

Excellent durability against cuts and wear due to excess road crown, imbedded or loose rocks, sharp objects, etc.

(2) HR (Heat resistance)

A resistant quality against the internal heat generation makes a machine suitable for long hauls.

(3) GP (General purpose)

Tires having medium degree of the above resistant qualities, CR and HR.

(4) Shredded wire under tread and steel breaker types

These types of tires are made more durable against cuts than the CR with special precautions to limit tire wear and cutting by incorporating the layer of steel cord between tread and casing, or by providing a cord - reinforced rubber interlay between the tire cover and plies to shield the plies against penetration by sharp objects.

Selection of tires to match required characteristics (tire structure, quality of rubber)

Specification	Tread rubber quality			Structure		
	Standard	Heat resistance	Cut resistance	Nylon breaker	Steel breaker	Side steel breaker
Wear resistance	○	△	⊙	○	○	○
Cut resistance	Tread	○	△	○	⊙	⊙
	Side	○	○	○	○	⊙
Heat resistance	○	⊙	△	○	△	△
Traction, flotation	○	○	○	○	○	○

⊙ : Excellent ○ : Good △ : Fair

Because of the structure and quality of the rubber used for the tread, cut resistance and wear resistances are mutually opposite to heat resistance, so when selecting tires, always check the TKPH.

Depending on the tire, super heat-resistant (SHR) and super cut-resistant (SCR) tread rubber are available, so ask your tire distributor for details of tires that are not listed in the operation manual.

8. TIRE IDENTIFICATION

Tire characteristics	BRIDGESTONE	MICHELIN	YOKOHAMA	TOYO
CR (Cut-resistant)	2A (cut-resistant) 2V* (Special cut-resistance) 2Z* (Special cut-resistance)	A4 A	CP (Cut protected) CP-C (Cut protected specification) CP-S (Cut protected and reinforced specification)	CR (Cut-resistant)
GP (General purpose)	1A (Standard)	B4 B	REG (Regular) PE-R (Regular specification) RE-T (Regular heat-resistant specification)	SP (Standard purpose)
HR (Heat-resistant)	3A (Heat-resistant)	C4 C	HR (Heat resistant) HR-H (Heat-resistant specification) HR-V (Heat-resistant and reinforced specification)	HR (Heat resistant)

* Bias tire only

Code identification for MICHELIN tires

Type A4: Particularly resistant to cuts, tread tearing and abrasion on very rough surfaces.

Type A: Particularly resistant to cuts, tread tearing and abrasion at average speeds which are higher than those for A4 (above).

Type B4: Compromise solution between abrasion resistance and average speed on rough surfaces. (available in sizes 49 inch rim diameter and above)

Type B: Higher resistance to internal heat generation on surfaces which are not particularly rough.

Type C4: For running on long cycles at high speeds on well maintained roads.

Type C: Very high resistance to high average speeds on long cycles run on well maintained roads

Code identification for GOODYEAR

Compound Code	Compound Type
2	Ultra Heat Resistant
3	Heat Resistant
4	Abrasion Resistant
6	Ultra Abrasion Resistant

Construction Code	Construction Type
S	Standard
H	Heavy Duty
HR	Heavy High Speed
HW	Extra Heavy Duty

Selecting tires suitable to working conditions (Structure of tire and quality of rubber)

Examples of procedure for selecting tires of dump truck and wheel loader

		Procedure for selecting tires		
Dump truck	(1) Carrying material in mine (limestone) or stone crushing pit (RDT, ADT)	Tires generate little heat Tires have high chance to be cut	Cut resistance Abrasion resistance	Deep-groove (E-4) Cut-resistant rubber Steel breaker
	(2) Carrying material in mine (coal, iron ore, etc.) (RDT, ADT)	Tires generate much heat Tires have medium chance to be cut Working speed is high	Heat resistance Abrasion resistance Cut resistance	General-groove, deep-groove E3, E4 Heat-resistant tread rubber Radial structure
	(3) Carrying material in dam construction or civil engineering field (RDT, ADT)	Tires generate much heat Tires have medium chance to be cut	Heat resistance Abrasion resistance Cut resistance	General-groove, deep-groove (E3, E4) Heat-resistant tread rubber Radial structure
	(4) Carrying material on soft (muddy) ground (ADT)	Tires generate little heat Tires have high chance to be cut Ground pressure is low	Cut resistance High floating performance Abrasion resistance	General-groove, deep-groove (E3, E4) Heat-resistant tread rubber Radial structure
Wheel loader	(1) Mining and collecting natural stones	Tires generate little heat Tires have high chance to be cut Abrasion life is short	Cut resistance Abrasion resistance	Deep-groove or ultra deep-groove (L-4, L-5) Cut-resistant tread rubber General-groove (L3) + Steel breaker or side steel breaker
	(2) Loading products of mine or stone crushing pit	Tires generate little heat Tires have low chance to be cut Abrasion life is long	Durability of carcass Crack resistance (Deterioration)	General-groove (L3)
	(3) Loading and carrying sand and gravel	Tires generate little heat Tires have little chance to be cut Abrasion life is long	Durability of carcass Crack resistance Traction	General-groove (L3) Traction (L-2)
	(4) Load and carry operation	Tires generate much heat Tires have little chance to be cut Abrasion life is long	Heat resistance Crack resistance	Heat-resistant tread rubber General-groove (L3) Traction (L-2)

NOTE: Some tires in the above table cannot be selected for some destinations.

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FOR SEVERE ENVIRONMENTS Sec 13A

FOR MINING Sec 13B

SECTION **13A**

FOR SEVERE ENVIRONMENTS

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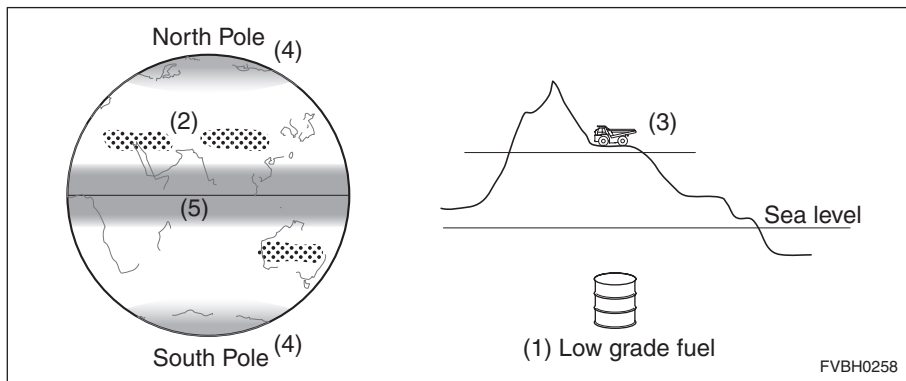
KOMATSU products are designed to meet various application requirements in a wide range of natural environment and social situations on the globe. For operation under extremely severe environmental conditions, where the mere standard spec is inadequate, KOMATSU offer a variety of options for special application to be added to or substituted for the standard spec so as to reach the full potential of the machine even in such conditions.

Machine operating conditions that require special care are as follows:

- Fuel quality: (1) areas where low grade fuel is generally used
- Ambient air quality: (2) areas where sand/dust will be thickly blown up
- Altitude: (3) areas at very high altitudes
- Ambient air temperature: (4) areas whose climate is cold or frigid, (5) tropical regions

In this chapter, why such special care is necessary and what are in the special spec are explained with typical examples.

It is recommended to consult KOMATSU through the distributor for actual choice of a spec for such special application.

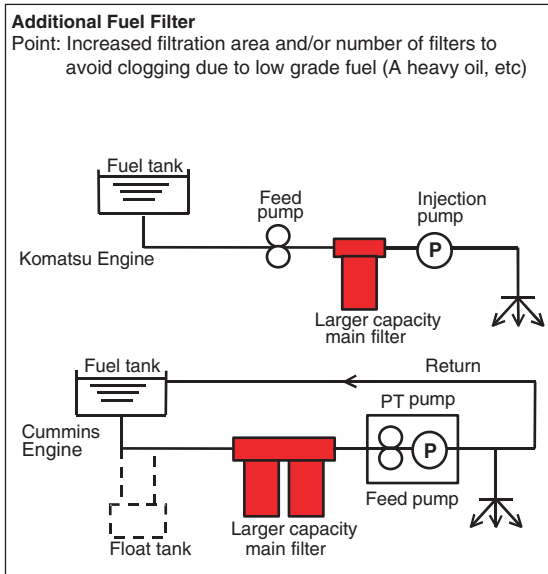


The quality of fuel depends on the districts and fuel suppliers. In addition, if the fuel is stored under bad condition, its quality may be lowered.

1) Dirt

Since dirt in the fuel clogs the filter quickly, it can lower the engine power. In addition, it can lower circulation of the fuel and wear the internal parts of the injection pump quickly. To solve this problem, a filter of finer mesh should be used or the number of filters should be increased.

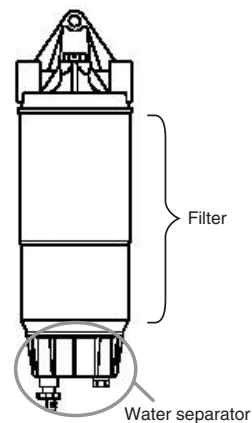
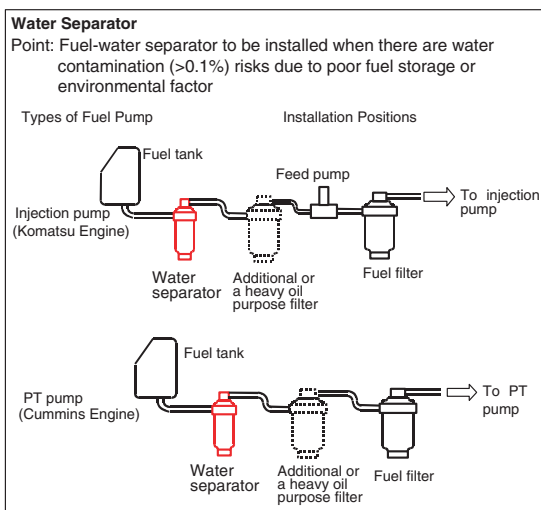
(Additional fuel filter for low grade fuel)



This figure shows an example.
It is not applicable to every model.

2) Water

Water in fuel rusts the fuel piping. In addition, it lowers lubrication performance, and that wear the sliding parts of the injector, injection pump, etc. To solve this problem, a water separator should be installed.



Example) Filter and water separator unit

3) Sulfur

If fuel contains sulfur, sulfuric acid is produced and it accelerates internal corrosion. If it is obliged to use fuel containing sulfur by 0.5% or more, use high TBN (Total Base Number) oil.

If fuel containing sulfur is used, the oil is deteriorated quickly and it should be replaced at shorter intervals. For detail, see MAINTENANCE in the Operation & Maintenance manual.

Recommendation for Sandy and Dusty Terrain Condition

FOR SEVERE ENVIRONMENTS

This specification should be applied to not only sandy terrain but also dusty terrain. It is essential when the view range is 0 meter.

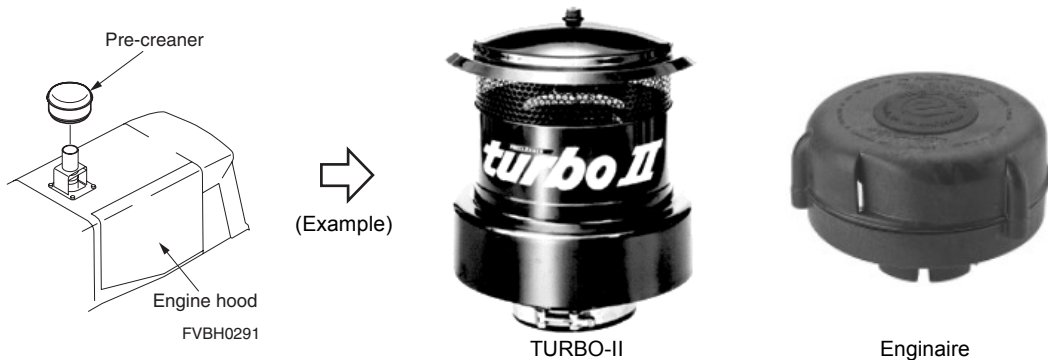
1) Quick clogging of air cleaner

If the air cleaner is clogged quickly, the engine power lowers, the exhaust temperature rises, and wear of the internal parts of the engine is accelerated. If the exhaust temperature rises above the allowable level, the cylinder head may crack and the valves may melt.

In addition, the rotating parts are worn quickly and the radiator core fins are also worn quickly by the collision of grains of sand. The radiator dust-proof grid is prepared to prevent quick wear of the radiator core fins. It is not necessary, however, if the hydraulic suction fan is installed.

2) Cyclone-type pre-cleaner

While the dust accumulated in the conventional US pre-cleaner must be removed by hand, the dust swirled and sucked into TURBO-II and Enginaire (as example) are discharged automatically by a centrifugal force.

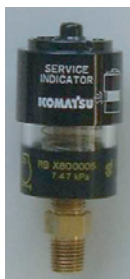


3) 5-stage dust indicator

The 5-stage dust indicator shows how much the air cleaner is clogged and if the air cleaner can be used again after it is cleaned.

(Example)

Conventional type



OK/NG (not OK) display only

New type



New part number: 08672-01000
(Current part number: 600-184-1920)
<The main unit and connectors are set.>

Negative pressure display part
The clogging state is self-evident from the five stages scale displayed on the yellow display unit.

The air cleaner element must be replaced with new one after it is cleaned 6 times. If this new indicator is used, however, the air cleaner element can be replaced according to its clogging condition. As a result, the maintenance cost can be reduced.

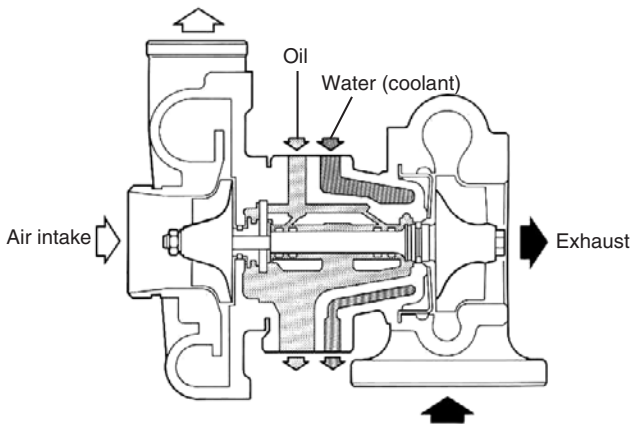
As altitude is increased, air is more rarefied (atmospheric oxygen is reduced) and the quantity of fuel is increased for the quantity of air. As a result, combustion becomes incomplete and the exhaust temperature rises. The rise of the exhaust temperature can cause a serious engine trouble such as melting of the valves. In addition, the air resistance decreases and the turbocharger speed rises extremely and its lifespan is shortened remarkably.

1) The fuel injection rate must be reduced to secure a proper air-fuel ratio for combustion. If a mechanical injection pump is employed, it must be readjusted mechanically. If fuel is controlled electronically, the software of the engine controller must be changed.

2) Turbocharger

- 1) The turbocharger may need to be replaced with one equipped with an over-speed prevention device.
- 2) The turbocharger may need to be replaced with a water-cooled one to prevent shortening of its lifespan caused by high temperature.

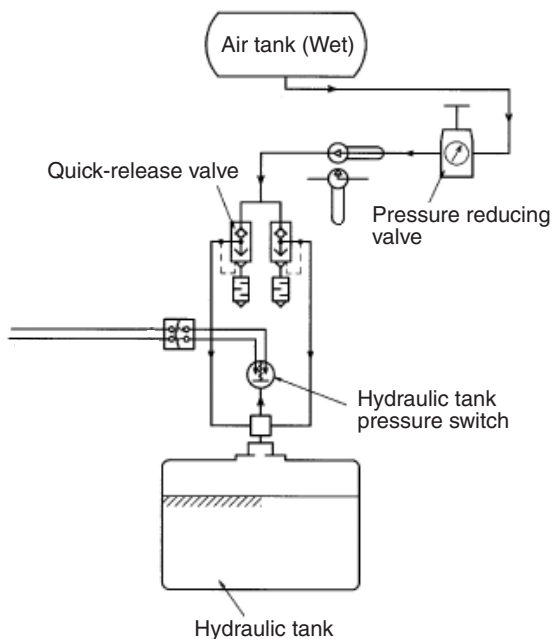
(Example: Water-cooled turbocharger)



3) Pressurized hydraulic tank

As the atmospheric pressure lowers, the hydraulic oil may be aerated, and that may cause cavitation in pumps. To prevent this problem, a pressurizing system may be required.

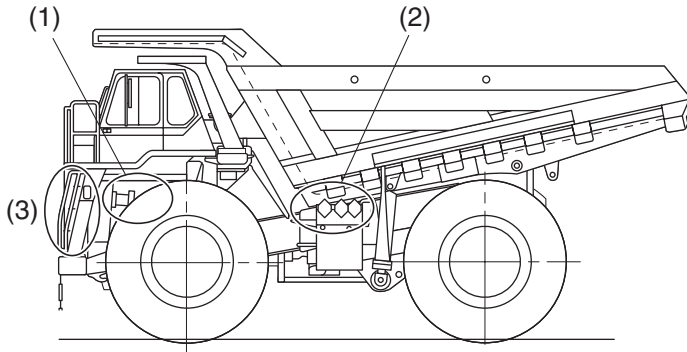
(Example: Pressurization of hydraulic tank of HD785-5)



It is reported that simple pressurization with a conventional tank cap is sufficient for a machine equipped with a hydraulic tank at a high position like a hydraulic excavator.

Necessity of pressurizing system must be checked for each model.

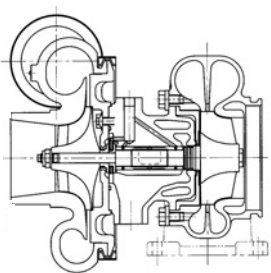
(Example: HD785-5 with high altitude specification)



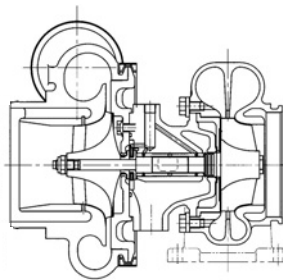
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1) Change of engine specifications

- Improvement of turbocharger



Current turbocharger

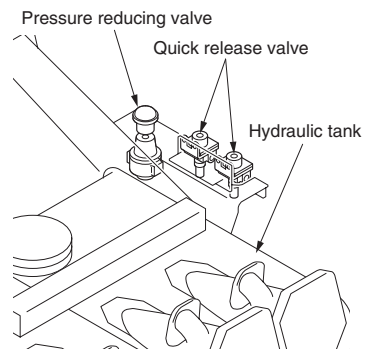


Improved turbocharger
Inlet circulation type

- Derating of engine output
Fuel injection derating: 20%

2) Pressurization of hydraulic tank

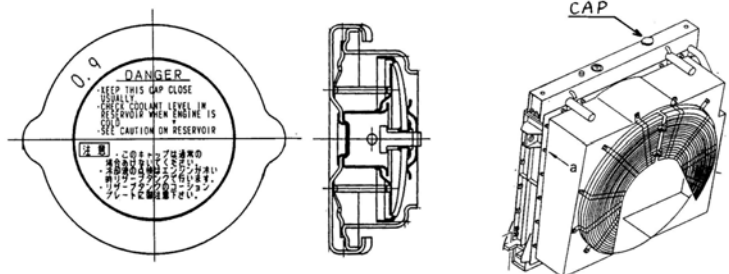
The hydraulic tank is pressurized with air to prevent cavitation caused by lowering of suction pressure of the hydraulic pumps.



FVBH0292

3) Pressurization of radiator

The radiator cap is replaced to prevent lowering of boiling point at high altitude.



Standard specification: 0.7 kg/cm² -> High-altitude specification: 0.9 kg/cm²

Recommendation for Cold and Extremely Cold Weather Area

FOR SEVERE ENVIRONMENTS

In a cold district or a cold season, the engine does not start easily because of the low temperature. The reasons for this phenomenon is that the battery lowers in function and cannot supply a necessary current and the resistance to rotation increases as the viscosity of the lubricating oil of the power train and hydraulic oil increases. In addition, if the temperature lowers below -20°C , the oil in the track rollers and final drive solidifies. As a result, the floating seals are dragged and the O-rings are broken, and that can cause internal breakage.

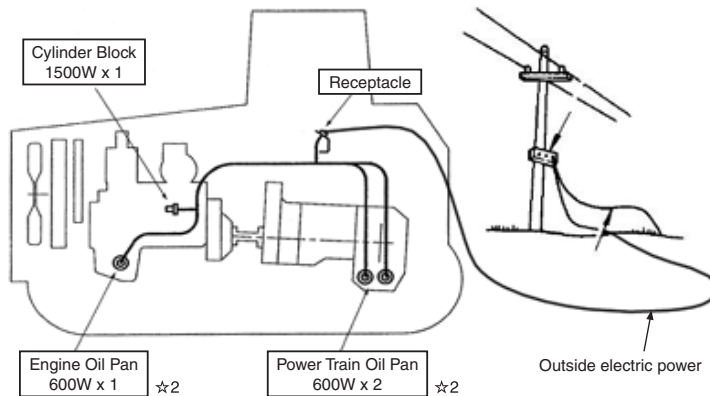
To solve these problems, the following measures are necessary.

(Example)

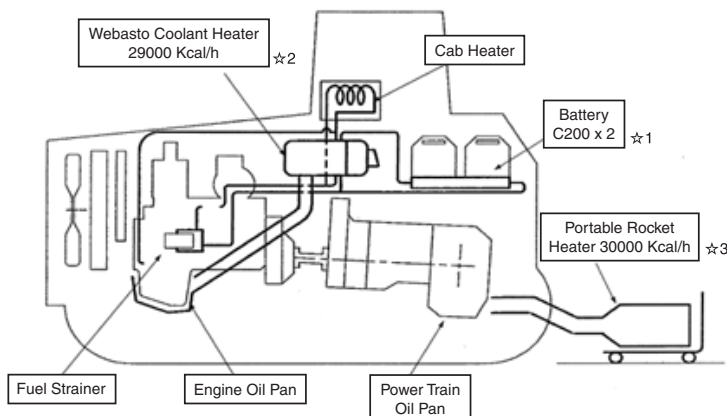
Part	Spec	Cold weather	Extremely cold weather	Note	Purpose
	Minimum ambient temp.	$-30 \sim -20^{\circ}\text{C}$	$-50 \sim -30^{\circ}\text{C}$		
Battery (☆1) Starting motor Alternator		Large-capacity Large-capacity Large-capacity	Large-capacity Large-capacity Large-capacity	Cable	Improvement of startability (On drive side)
Measures to prevent overcooling • Reversible fan		Necessary	Necessary	Since hydraulic driven fan can rotate in reverse, reversible fan is not necessary.	Prevention of lowering of power
• Radiator curtain • Radiator shutter • Ktilting		Necessary Unnecessary Unnecessary	Necessary Necessary Necessary		
Reduction of dragging torque • Oil pan heater (☆2) • Combustion heater (☆3)		Unnecessary Unnecessary	Necessary Necessary		Improvement of startability (Lowering of resistance on driven side)
Undercarriage • Employment of seals coated with nylon • Employment of oil which does not solidify even at -55°C		Necessary Necessary	Necessary Necessary		Prevention of breakage of undercarriage caused by solidification of oil

(Example) D275A-5 with extremely cold weather specification (cold weather specification for CIS)

1) Warmth keeping for easy engine start



2) Preheating system for low-temperature start



**Recommendation for Cold and
Extremely Cold Weather Area**

**FOR SEVERE
ENVIRONMENTS**

**Arctic Temperature Requirements for the Komatsu Hydraulic Mining Shovels
PC 3000 / PC 4000 / PC 5500 / PC8000**

Elements	Temperature down to -25°C	Temperature down to -40°C	Temperature down to -50°C
High stress steel structure	X	manufacture's check ISO V-notch test 27 J at -40°C	manufacture's certificate ISO V-notch test 27 J at -50°C
Castings and forgings	X	manufacture's check ISO V-notch test 27 J at -40°C	manufacture's certificate ISO V-notch test 27 J at -50°C
Screws and bolts	X	material change	material change
Electric cable	X	material change	material change
Batteries	X	preheating	preheating
Hoses	X	X	ICE-Champion flange sealings changed
Engine start	ether start	preheating + ether start	preheating + ether start low idle adjusted to 1100 rpm
Engine coolant	X	preheating	preheating
Engine oil	X	preheating	preheating
Hydraulic oil	X	preheating	preheating
Pump drive gear boxes	X	preheating	preheating
Cab base electric cabinet	X	preheating	preheating
Cab	X	preheating	preheating
Machinery house	X	X	preheating closed from below air-inlet and - outlet reduced
Sealings	X	partly material change	partly material change
Cylinder	X	material change of bolts	material change of sealings and scraper
Travel motor	X	X	preheating by hydraulic circuit

X = standard delivery (no changes)

If the machine is used in a jobsite where the atmospheric temperature exceeds +40°C and rises up to +50°C, the temperature of the coolant and lubricating oil may rise above the allowable limit. Under this condition, the engine and power train overheat and the lifespan of each part is shortened.

1) Large-sized radiator cooling fans

It is necessary to cool the coolant and lubricating oil properly. (Example: HD785-5, HD985-5)

2) Antifreeze

Antifreeze is not necessary naturally. Since fresh water is used, the heat balance is improved about 4°C. Corrosion resistor must be added and replaced periodically, however, to prevent rusting of inside of the engine.

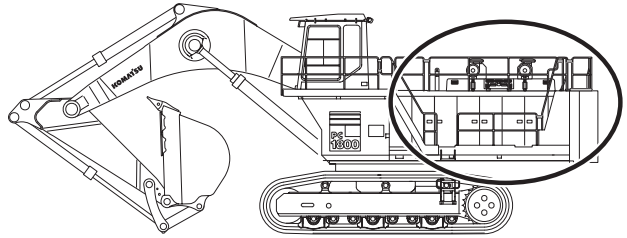
It is also important for protection of the engine to use soft water such as city water, since water in rivers and ponds is hard in many cases.

Some large-sized models for Australia can operate up to +55°C.

(Example) PC1800-6 with +55°C specification

1) Large-sized radiator cooling fan

- Increase of oil cooler capacity
- Increase of radiator capacity
- Increase of fan diameter and speed
- Improvement of air flow in engine hood (Addition of perforated cover for door on pump side and duct on radiator side)



FVPM2967A

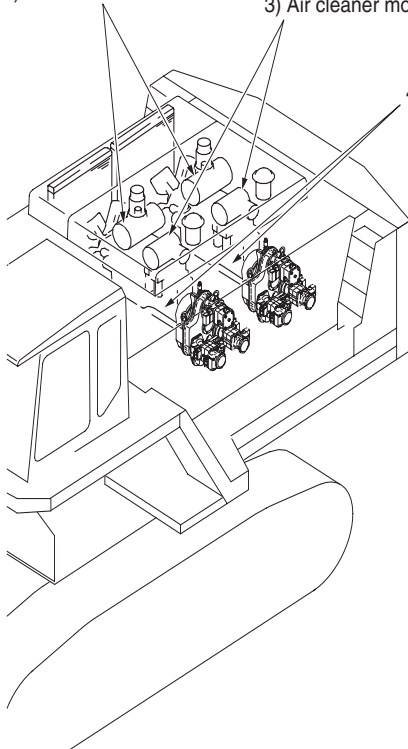
2) Muffler mounted on outside

3) Air cleaner mounted on outside

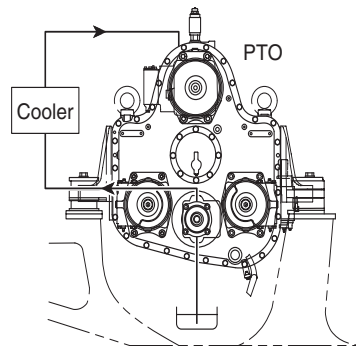
4) Heat resistant alternator

5) Additional PTO cooler (installed in front of radiator)

- 2) Muffler mounted on outside 3) Air cleaner mounted on outside



4) Heat-resistant alternator



5) Additional PTO cooler (Installed in front of radiator)

FVBH0293

SECTION 13B

FOR MINING

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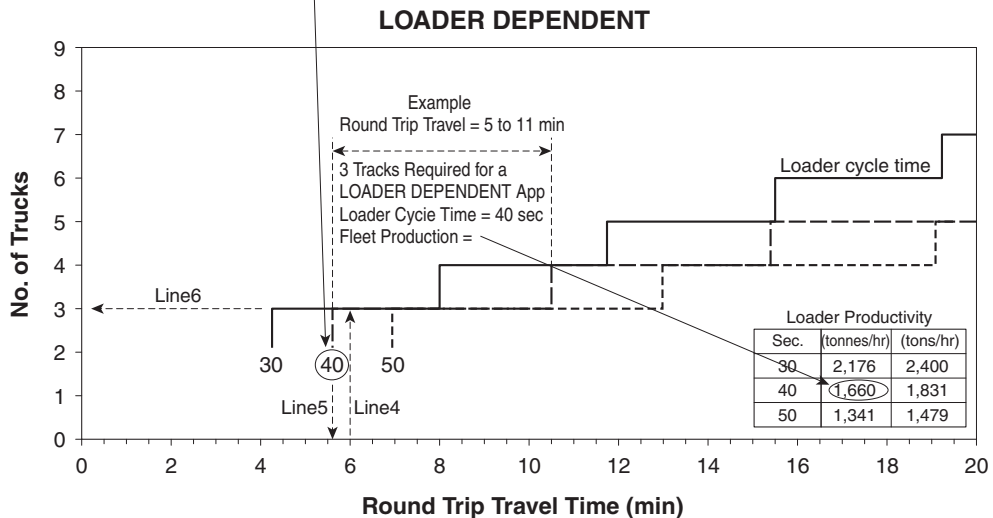
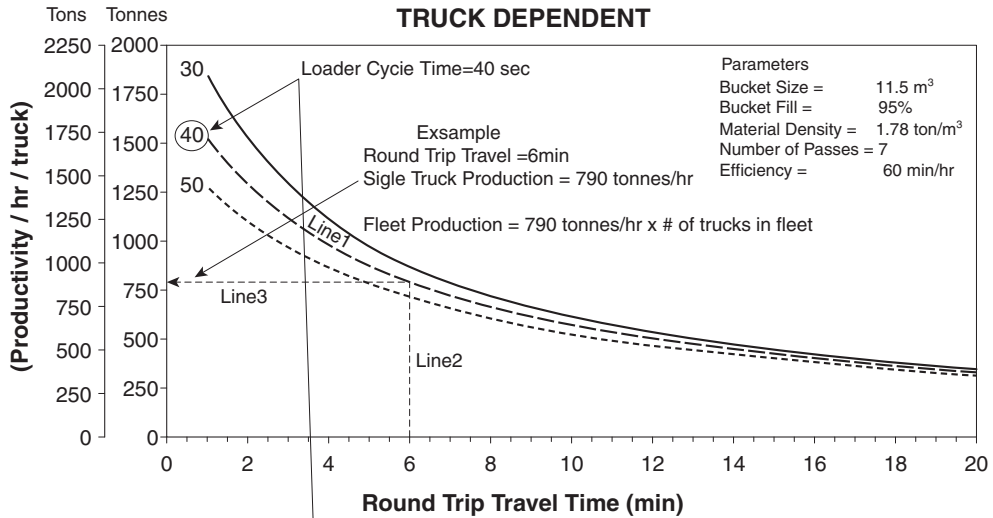
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What is HAT?

- HAT=Haulage Analysis Tool
- HAT charts provide productivity figures for both loader dependent and truck dependent haulage applications.
- The productivity and unit cost figures exist for variable travel and load time scenarios.
- These comprehensive charts aid in identifying the most cost-effective fleet configuration for any given haulage application.

How to use HAT?

WA900 /HD1500



Round Trip Travel Time (min) = Haul Time + Return Time + Turn & Dump Time

FVBH0388

How to obtain Single Truck Production

1. Decide the loader cycle time and draw perpendicular Line 1 from the scale point. (40 seconds in this example)
2. Decide the round trip travel time of the dump truck and select the Line 2. (6 minutes in this example)
3. Draw Line 3 horizontally from the intersection of Line 1 and Line 2 and read the value at the point where it crosses the scale of single truck production. (790 tonnes/Hr in this example)

How to obtain Number of Truck allocatable for a loader

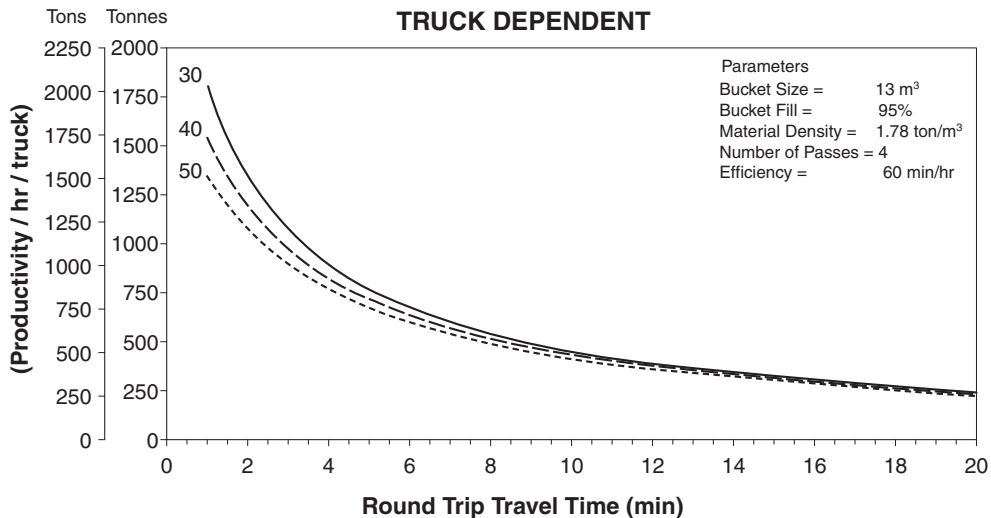
4. Determine the lower and upper limits of the round trip travel time for the given loader cycle time. (In this example, the lower and upper limit of the round trip travel time is 5.5 and 10.5 minutes respectively for the given loader cycle time of 40 seconds.)
5. Obtain the number of trucks allocatable for a loader.
Draw Line 6 horizontally from the intersection of Line 4 starting from the 6-minute point of round trip travel time scale and Line 5 of the loader cycle time of 40 seconds and read the value at the point where it crosses the scale of the number of trucks allocatable for a loader. The number is 3-unit in this example.
6. Read the loader production when the loader cycle time is 40 seconds from Table 1, that is 1,660 tonnes/Hr shown in a circle.

As identified above, followings can be obtained when WA900 and Hd1500 are combined for the operation with loader cycle time of 40 seconds and truck round trip travel time of 6 minutes.

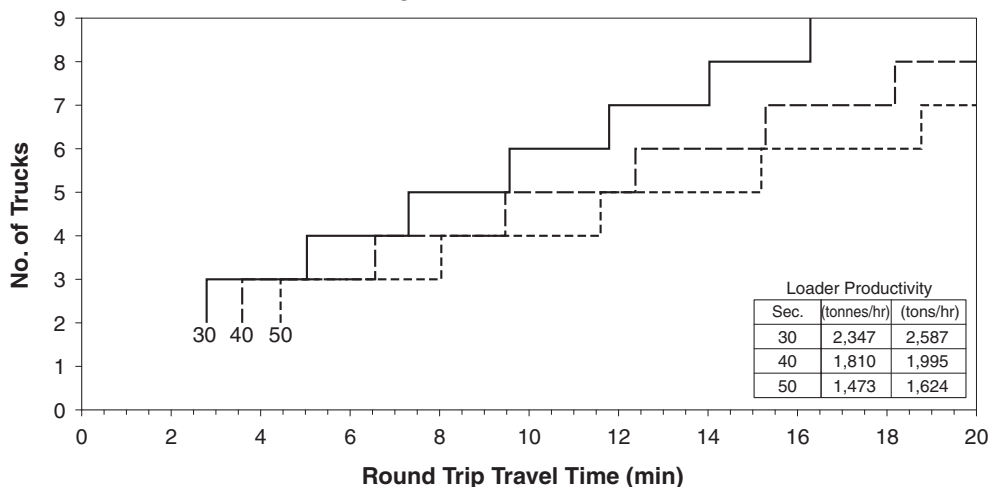
- A. From above 1, 2 and 3, the single truck production of HD1500 is 790 tonnes/Hr.
- B. From above 4 and 5, 3 units of HD1500 may be allocated for a WA900 when the round trip travel time is within 5.5 to 10.5 minutes.
- C. From above 6, The maximum fleet production is 1,660 tonnes/Hr that is equal to the loader production.

WA900 /HD785

TRUCK DEPENDENT



LOADER DEPENDENT

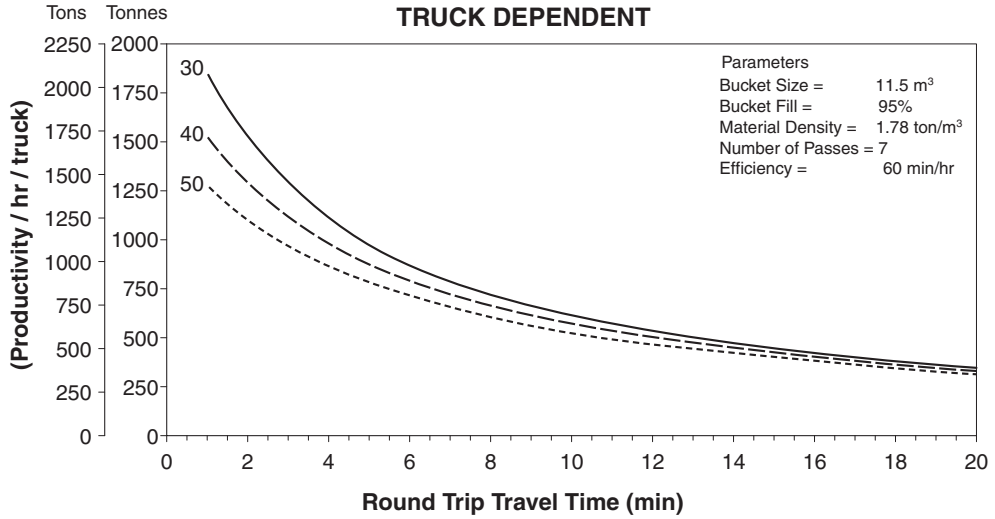


Round Trip Travel Time (min) = Haul Time + Return Time + Turn & Dump Time

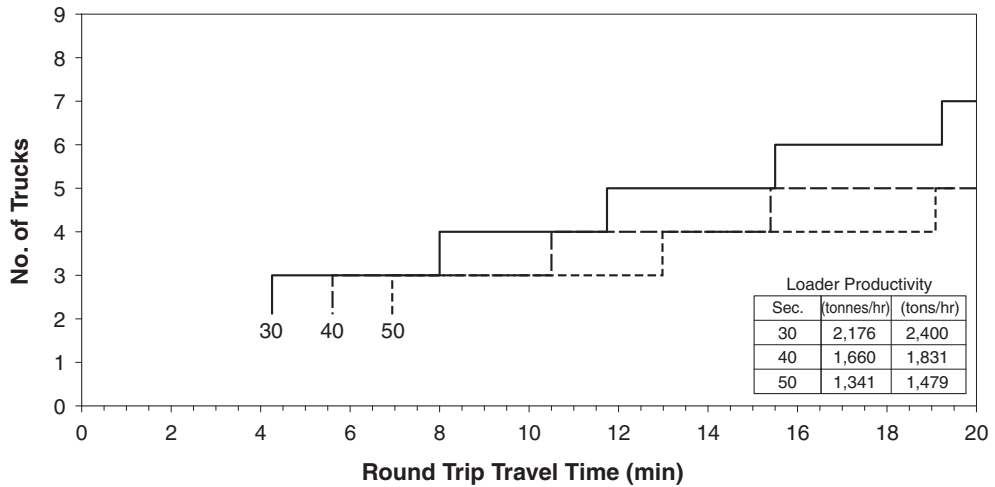
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WA900HL /HD1500

TRUCK DEPENDENT



LOADER DEPENDENT

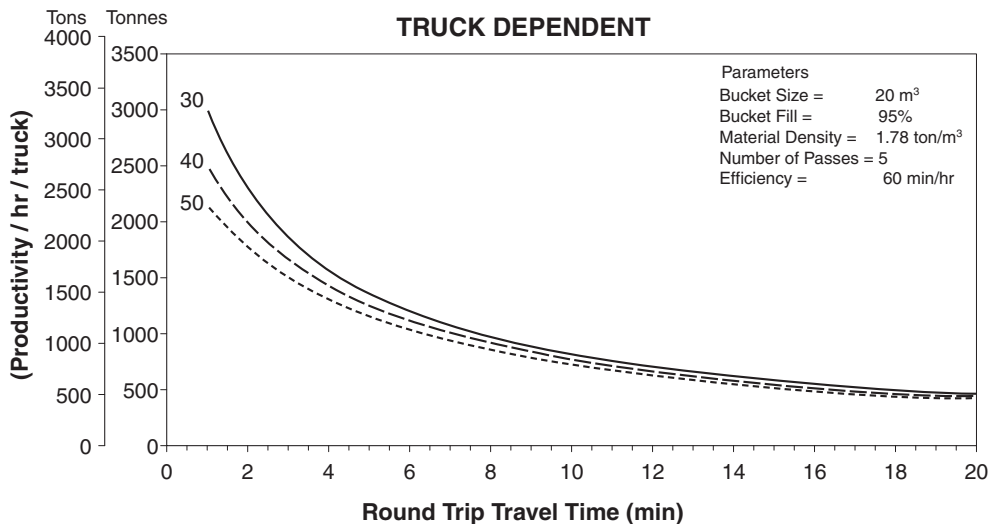


Round Trip Travel Time (min) = Haul Time + Return Time + Turn & Dump Time

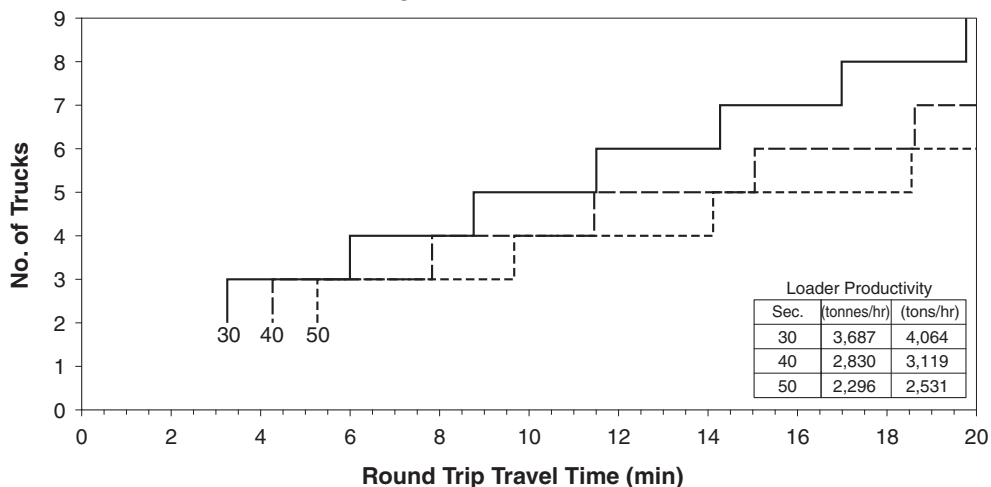
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WA1200 / 730E

TRUCK DEPENDENT



LOADER DEPENDENT

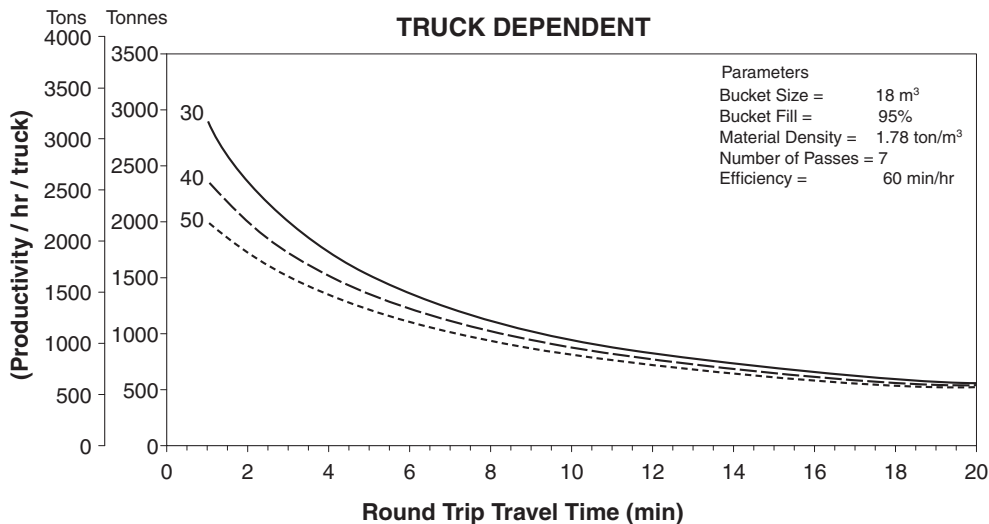


Round Trip Travel Time (min) = Haul Time + Return Time + Turn & Dump Time

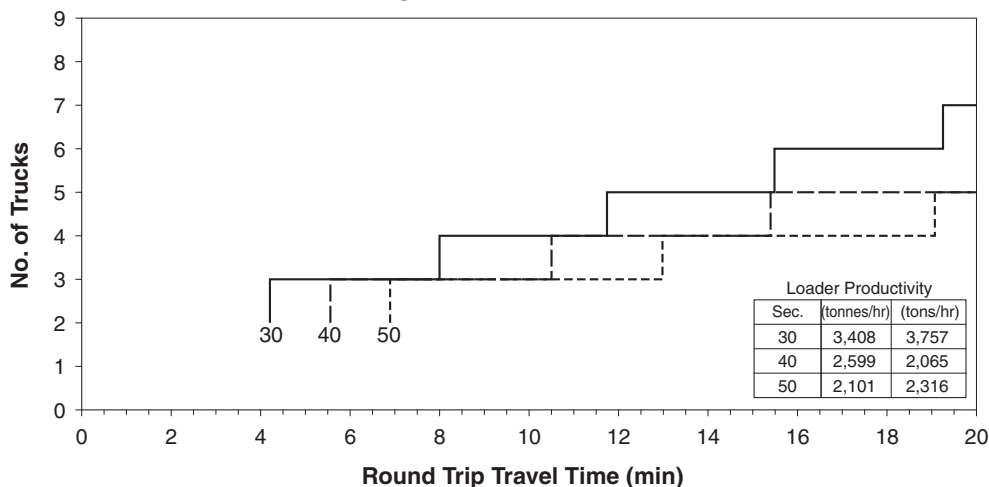
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WA1200HL / 830E

TRUCK DEPENDENT



LOADER DEPENDENT

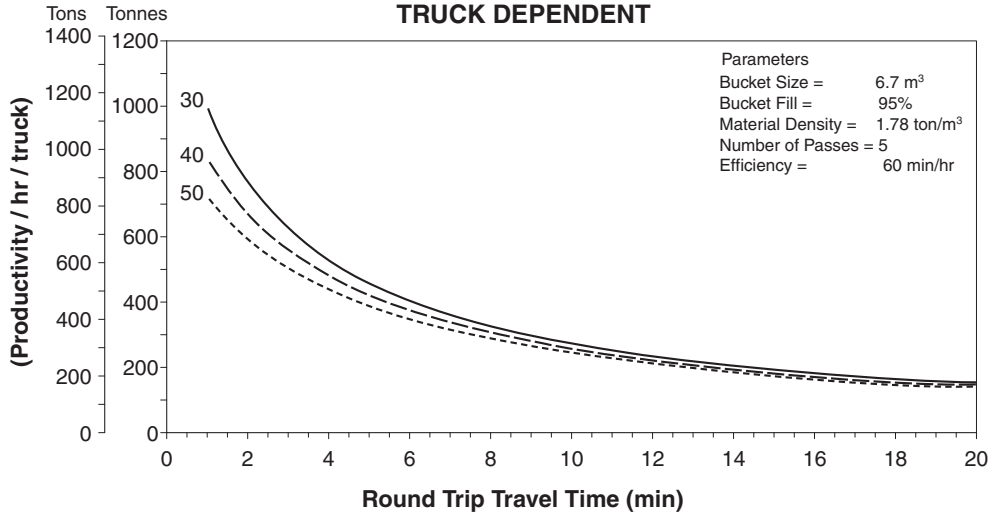


Round Trip Travel Time (min) = Haul Time + Return Time + Turn & Dump Time

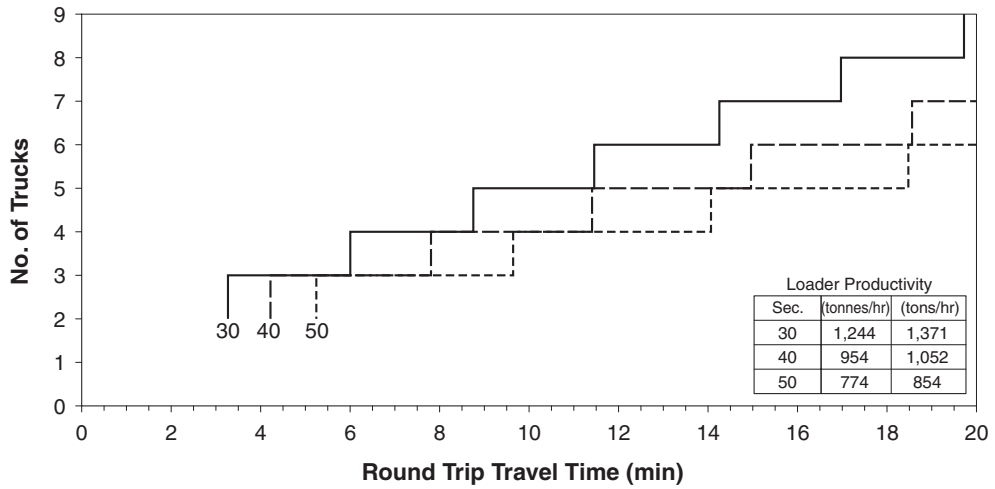
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PC1250SP / HD605

TRUCK DEPENDENT



LOADER DEPENDENT

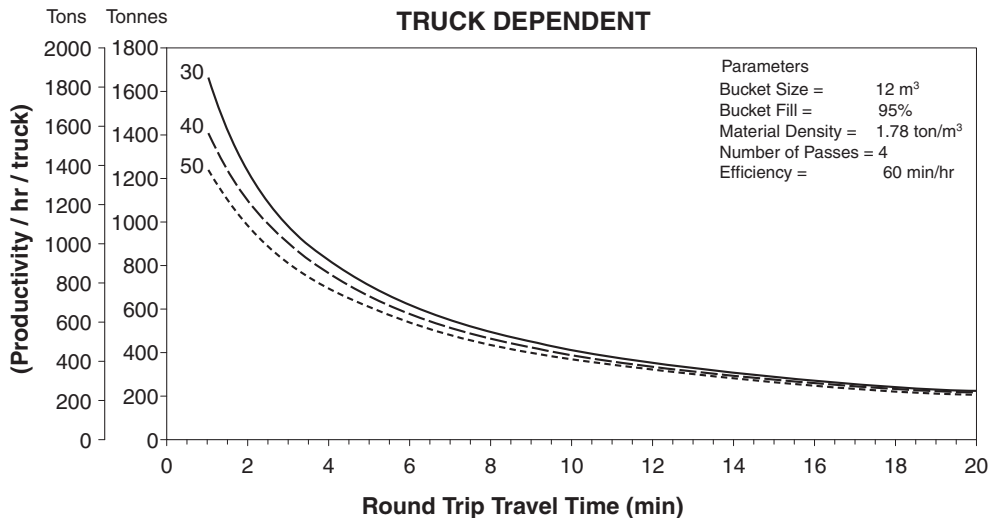


Round Trip Travel Time (min) = Haul Time + Return Time + Turn & Dump Time

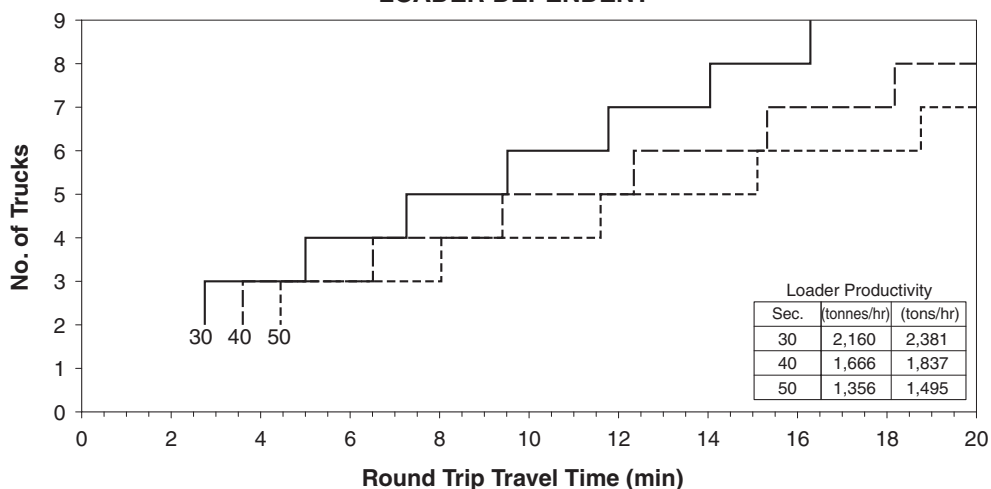
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PC2000 / HD785

TRUCK DEPENDENT



LOADER DEPENDENT

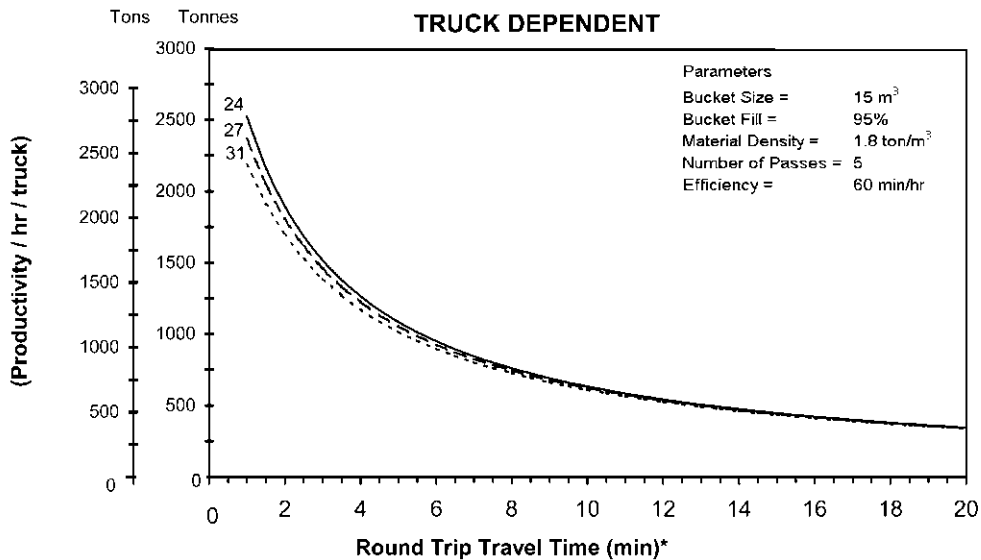


Round Trip Travel Time (min) = Haul Time + Return Time + Turn & Dump Time

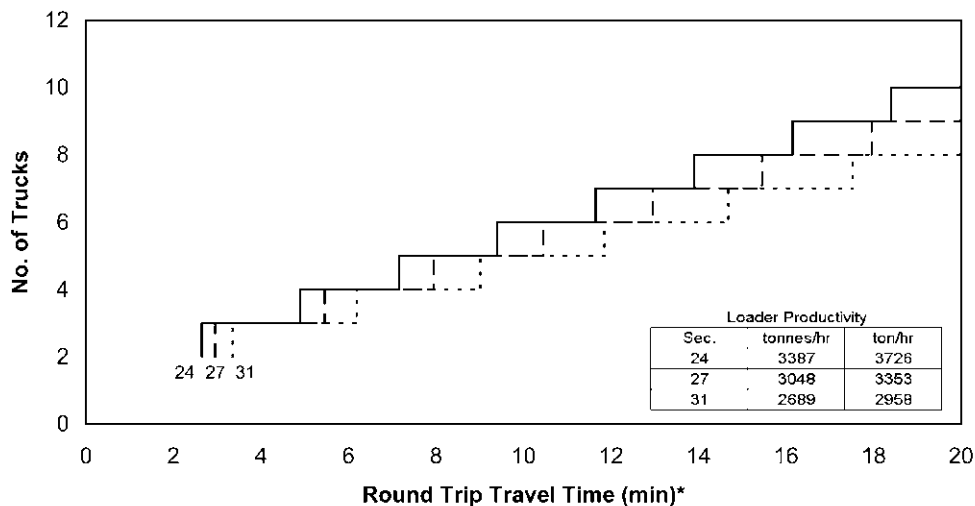
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PC3000 / HD1500

TRUCK DEPENDENT

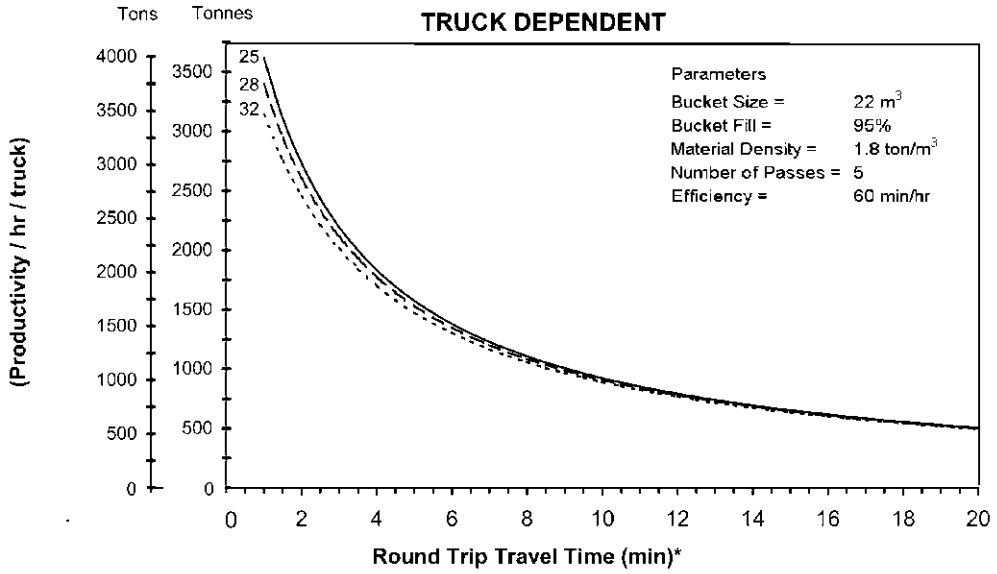


LOADER DEPENDENT

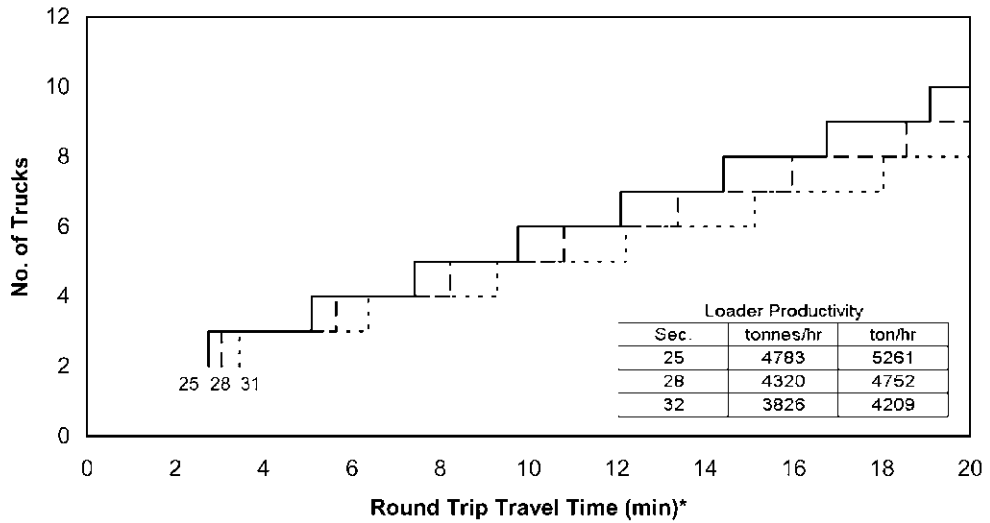


* Round Trip Travel Time Includes: Loaded Haul, Empty Return and Dump Time.

PC4000 / 730E
TRUCK DEPENDENT

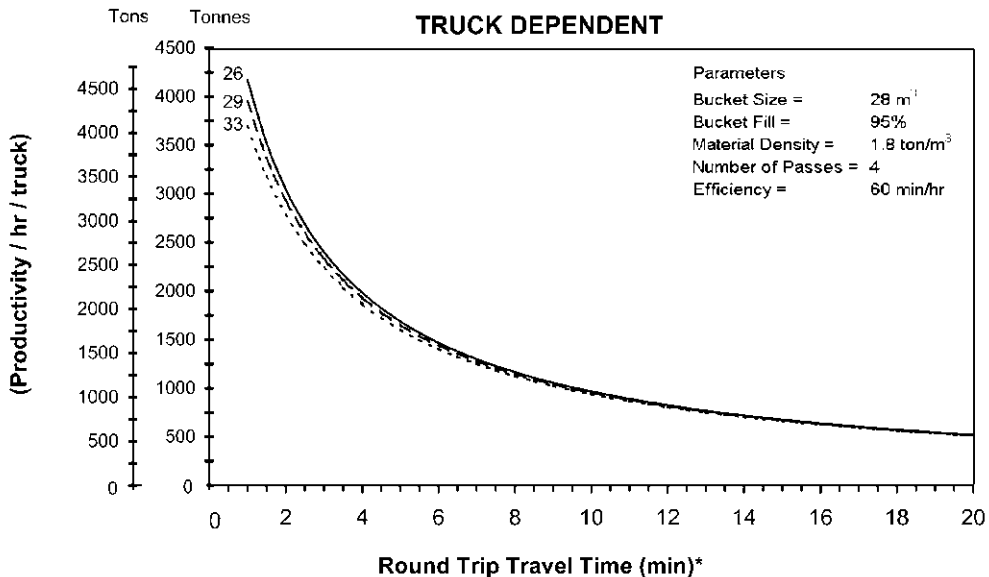


LOADER DEPENDENT

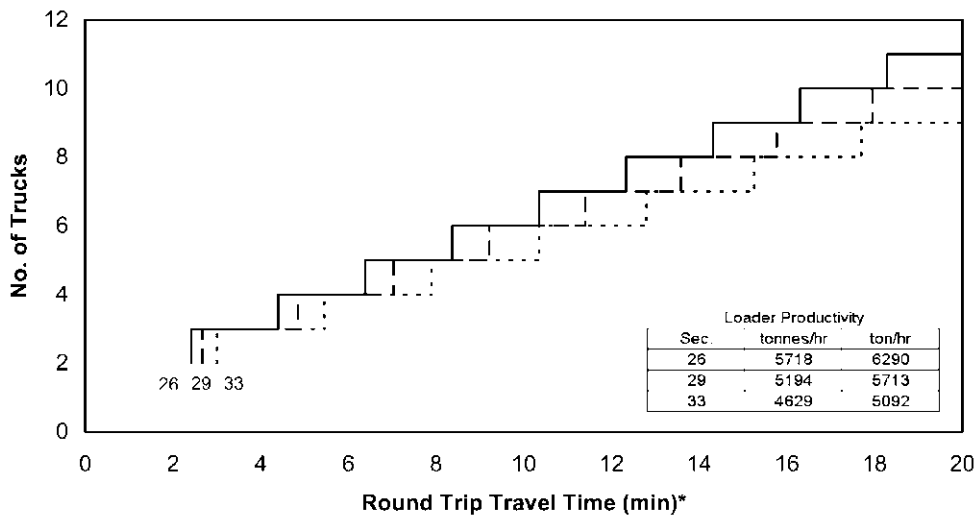


* Round Trip Travel Time Includes: Loaded Haul, Empty Return and Dump Time.

PC5500 / 830E
TRUCK DEPENDENT

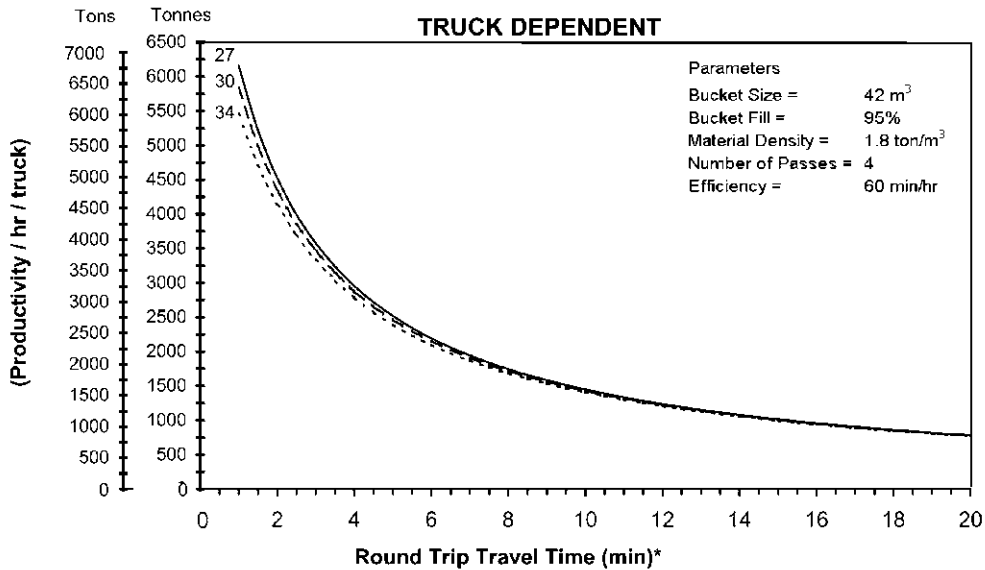


LOADER DEPENDENT

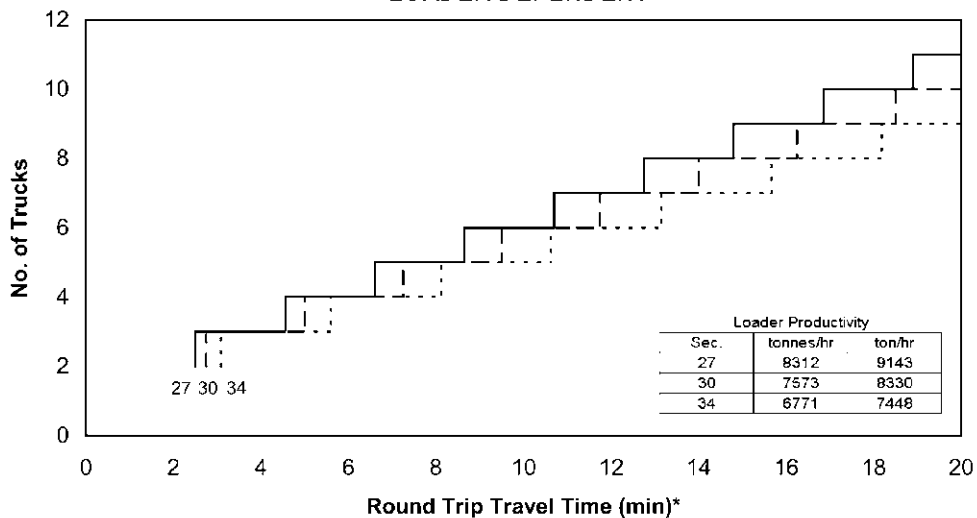


* Round Trip Travel Time Includes: Loaded Haul, Empty Return and Dump Time.

PC8000 / 930E
TRUCK DEPENDENT



LOADER DEPENDENT



* Round Trip Travel Time Includes: Loaded Haul, Empty Return and Dump Time.

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EARTHMOVING DATA Sec 14B

SECTION **14A**

PRODUCTIVITY

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When planning mechanized projects, one extremely important issue is how to calculate the production of the machines.

The first step when estimating the production is to calculate a theoretical value as explained below. This theoretical value is then adjusted according to actual figures obtained from past experience in similar operations.

On the basis of these figures (particularly those for job efficiency) it will be possible to determine values suitable for the project which will be neither over-optimistic nor wasteful.

Therefore it is first necessary to fully understand the theoretical calculations and to be able to obtain a figure for working efficiency which is feasible on that job site.

From this it is possible to obtain a realistic figure for the work volume that can be attained.

Method of calculating production

It is usual to express the production of construction machines in terms of production per hour (m³/h or cu.yd./h).

This is basically calculated from the haul volume per cycle, and the number of cycles.

$$Q = q \times N \times E = q \times \frac{60}{Cm} \times E$$

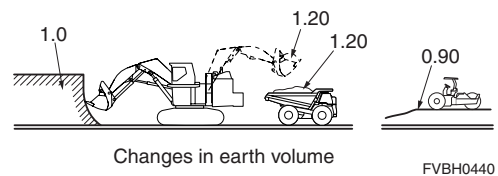
- where **Q** : Hourly production (m³/hr; yd³/hr)
- q** : Production (m³; yd³) per cycle, of loose, excavated soil (This is determined by the machine capacity.)
- N** : Number of cycles per hour = $\frac{60}{Cm}$
- Cm** : Cycle time (in minutes)
- E** : Job efficiency (see the item 2)

1. Earth volume conversion factor (f)

The volume of any amount of earth depends on whether the soil is in its natural ground condition (that is, unexcavated), whether it is loose, or whether it has been compacted.

This conversion factor depends on the type of soil and the operating state, but as a general rule, the values in the following table are used.

To obtain only the productivity of a construction machine, the earth volume conversion factor is taken as Table 1 and machine productivity is expressed in terms of loose earth. However, when planning actual projects, work volume is calculated in terms of unexcavated earth or compacted earth, so care must be taken to convert these figures.



Example:

1,000 m³ of unexcavated earth has to be hauled.

- a) What will its volume be when it has been excavated ready for hauling?
- b) What will its volume be if it is then compacted?

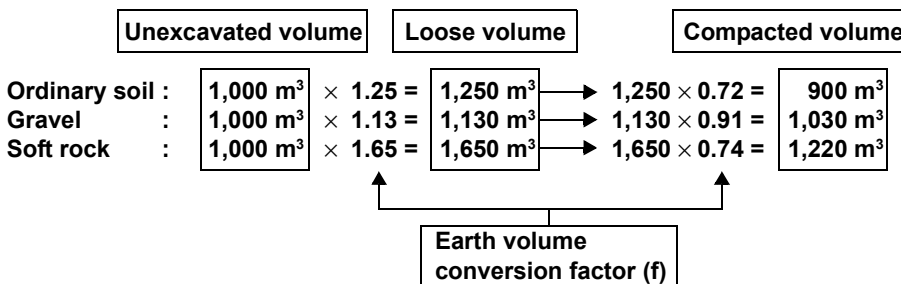


Table 1 Earth volume conversion factor (f)

Nature of earth	Initial	Conditions of earth to be moved		
		Bank condition	Loosened condition	Compacted condition
Sand	(A)	1.00	1.11	0.95
	(B)	0.90	1.00	0.86
	(C)	1.05	1.17	1.00
Sandy clay	(A)	1.00	1.25	0.90
	(B)	0.80	1.00	0.72
	(C)	1.11	1.39	1.00
Clay	(A)	1.00	1.43	0.90
	(B)	0.70	1.00	0.63
	(C)	1.11	1.59	1.00
Gravelly soil	(A)	1.00	1.18	1.08
	(B)	0.85	1.00	0.91
	(C)	0.93	1.09	1.00
Gravel	(A)	1.00	1.13	1.03
	(B)	0.88	1.00	0.91
	(C)	0.97	1.10	1.00
Solid or rugged gravel	(A)	1.00	1.42	1.29
	(B)	0.70	1.00	0.91
	(C)	0.77	1.10	1.00
Broken limestone, sandstone and other soft rocks	(A)	1.00	1.65	1.22
	(B)	0.61	1.00	0.74
	(C)	0.82	1.35	1.00
Broken granite, basalt and other hard rocks	(A)	1.00	1.70	1.31
	(B)	0.59	1.00	0.77
	(C)	0.76	1.30	1.00
Broken rocks	(A)	1.00	1.75	1.40
	(B)	0.57	1.00	0.80
	(C)	0.71	1.24	1.00
Blasted bulky rocks	(A)	1.00	1.80	1.30
	(B)	0.56	1.00	0.72
	(C)	0.77	1.38	1.00

(A) Bank condition (B) Loosened condition (C) Compacted condition

2. Job efficiency (E)

When planning a project, the hourly productivity of the machines needed in the project is the standard productivity under ideal conditions multiplied by a certain factor. This factor is called job efficiency.

Job efficiency depends on many factors such as topography, operator's skill, and proper selection and disposition of machines. Time out of an hour machine use is actually used.

It is very difficult to estimate a value for job efficiency due to the many factors involved. Therefore, efficiency is given in the following section as a rough guide.

BULLDOZERS**(DOZING)**

The hourly production of a bulldozer when excavating or dozing can be obtained by using the following formula:

$$Q = q \times \frac{60}{C_m} \times e \times E$$

where **Q** : Hourly production (m³/hr; yd³/hr) **q** : Production per cycle (m³; yd³)
C_m : Cycle time (in minutes) **e** : Grade factor
E : Job efficiency

1. Production per cycle (q)

For dozing operations, the production per cycle is theoretically calculated as follows:

$$q = q_1 \times a \quad q_1 : \text{Blade capacity (m}^3; \text{yd}^3) \quad a : \text{Blade fill factor}$$

When calculating the standard productivity of a bulldozer, the figure used for the volume of earth hauled in each cycle, was taken as blade capacity. In fact, production per cycle differs with the type of soil, so the blade fill factor is used to adjust this figure. See Table 2 to select the factor.

Table 2 Blade Fill Factor (a)

Dozing conditions		Blade fill factor (a)
Easy dozing	Full blade of soil can be dozed as completely loosened soil. Low water contented, no-compacted sandy soil, general soil, stockpile material.	1.1 ~ 0.9
Average dozing	Soil is loose, but impossible to doze full blade of soil. Soil with gravel, sand, fine crushed rock.	0.9 ~ 0.7
Rather difficult dozing	High water content and sticky clay, sand with cobbles, hard dry clay and natural ground.	0.7 ~ 0.6
Difficult dozing	Blasted rock, or large pieces of rock	0.6 ~ 0.4

2. Cycle time (C_m)

The time needed for a bulldozer to complete one cycle (dozing, reversing and gear shifting) is calculated by the following formula:

$$C_m (\text{min.}) = \frac{D}{F} + \frac{D}{R} + Z$$

where **D** : Haul distance (m; yd) **F** : Forward speed (m/min.; yd./min.)
R : Reverse speed (m/min.; yd./min.) **Z** : Time required for gear shifting (min.)

(1) Forward speed/reverse speed

As a rule a speed range of 3-5 km/h for forward, and 5-7 km/h for reverse should be chosen.

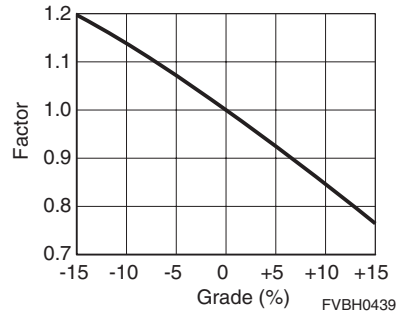
(2) Time required for gear shifting

	Time required for gear shifting
Direct-drive type	0.10 min.
TORQFLOW (Torque converter type)	0.05 min.

3. Grade factor (e)

Production is affected by the grade of the ground when dozing.

The grade factor can be selected in the right hand side graph.



4. Job efficiency (E)

The following table gives typical job efficiency as a rough guide. To obtain the actual production figure, determine the efficiency in accordance with actual operating conditions. Time out of an hour machine use is actually used.

Operating conditions	Job efficiency
Good	0.83
Average	0.75
Rather poor	0.67
Poor	0.58

(RIPPING)

Ripping production varies greatly according to such conditions as the properties of the rock, the method of operation, and the operator's skill. Therefore, it is difficult to estimate. However, from available data, the relationship as shown on the ripper section can be seen between seismic velocity and production.

(RIPPING AND DOZING)

In normal ripping operations, ripping and dozing operations are carried out repeatedly in turn. The combined production for ripping and dozing operations is calculated using the following formula.

$$Q = \frac{QR \times QD}{QR + QD}$$

Where Q = Ripping and dozing production (m³/hr ; yd³/hr)

QR = Ripping production (m³/hr ; yd³/hr)

QD = Dozing production (m³/hr ; yd³/hr)

When making the calculation, it is necessary to use the same unit (natural rock position, loose rock condition, soil condition) for production QR and QD.

DOZER SHOVELS AND WHEEL LOADERS

(LOADING)

Generally, the hourly production can be obtained by using the following formula:

$$Q = q \times \frac{60}{Cm} \times E$$

where **Q** : Hourly production (m³ /hr; yd³ /hr) **q** : Production per cycle (m³; cu.yd³)
Cm : Cycle time (min.) **E** : Job efficiency

1. Production per cycle (q)

$$q = q_1 \times K$$

Where **q₁** : The heaped capacity given in the specifications sheet

K : Bucket fill factor The actual volume in the bucket differs depending on the type of loading material.
Bucket fill factor is used for that reason.

(1) Bucket fill factor

Table 3 Bucket fill factor

Loading condition	Wheel loader	Dozer shovel
A: Easy loading	1.0 ~ 1.1	1.0 ~ 1.1
B: Average loading	0.85 ~ 0.95	0.95 ~ 1.0
C: Rather difficult loading	0.8 ~ 0.85	0.9 ~ 0.95
D: Difficult loading	0.75 ~ 0.8	0.85 ~ 0.9

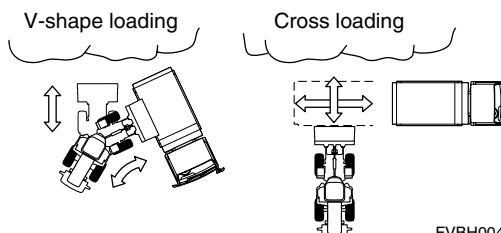
Table 4 Loading conditions

Operation conditions		Remarks
Easy loading (A)	Loading from a stockpile or from rock excavated by another excavator, bucket can be filled without any need for digging power. Sand, sandy soil, with good water content conditions.	<ul style="list-style-type: none"> Loading sand or crushed rock products Soil gathering such as loading of soil dozed by a bulldozer.
Average loading (B)	Loading of loose stockpiled soil more difficult to load than category A but possible to load an almost full bucket. Sand, sandy soil, clayey soil, clay, unscreened gravel, compacted gravel, etc. Or digging and loading of soft soil directly in natural ground condition.	Digging and loading of sandy natural ground.
Rather difficult loading (C)	Difficult to load a full bucket. Small crushed rock piled by another machine. Finely crushed rock, hard clay, sand mixed with gravel, sandy soil, clayey soil and clay with poor water content conditions.	Loading of small crushed rock
Difficult loading (D)	Difficult to load bucket, large irregular shaped rocks forming big air pockets. Rocks blasted with explosives, boulders, sand mixed with boulders, sandy soil, clayey soil, clay, etc.	Loading of blasted rock

2. Cycle time (Cm)

The following tables show the standard cycle time according to loading method and operating conditions.

It is possible to shorten a cycle time still more than the standard cycle time by minimizing moving distance.



FVBH0048

(1) V-shape loading

Table 5 Average cycle time for wheel loader

Unit: min.

Loading conditions		Bucket size		
		~ 3 m ³	3.1 ~ 5 m ³	5.1 m ³ ~
A	Easy	0.45	0.55	0.65
B	Average	0.55	0.65	0.70
C	Rather difficult	0.70	0.70	0.75
D	Difficult	0.75	0.75	0.80

Table 6 Average cycle time for dozer shovel

Unit: min.

Loading conditions		Bucket size	
		~ 3 m ³	3.1 ~ 5 m ³
A	Easy	0.55	0.60
B	Average	0.60	0.70
C	Rather difficult	0.75	0.75
D	Difficult	0.80	0.80

(2) Cross loading

Table 7 Average cycle time for wheel loader

Unit: min.

Loading conditions		Bucket size		
		~ 3 m ³	3.1 ~ 5 m ³	5.1 m ³ ~
A	Easy	0.40	0.50	0.60
B	Average	0.50	0.60	0.65
C	Rather difficult	0.65	0.65	0.70
D	Difficult	0.70	0.75	0.75

Table 8 Average cycle time for dozer shovel

Unit: min.

Loading conditions		Bucket size	
		~ 3 m ³	3.1 ~ 5 m ³
A	Easy	0.55	0.60
B	Average	0.60	0.70
C	Rather difficult	0.75	0.75
D	Difficult	0.80	0.80

3. Job efficiency (E)

The following table gives typical job efficiency as a rough guide. To obtain the actual production figure, determine the efficiency in accordance with actual operating conditions.

Operating conditions	Job efficiency
Good	0.83
Average	0.80
Rather poor	0.75
Poor	0.70

(LOAD AND CARRY)

$$Q = q \times \frac{60}{Cm} \times E$$

where **Q** : Hourly production (m³/hr; yd³/hr) **q** : Production per cycle (m³; yd³)
Cm : Cycle time (min.) **E** : Job efficiency

1. Production per cycle (q)

$$q = q_1 \times K$$

where **q₁** : The heaped capacity given in the specifications sheet
K : Bucket fill factor

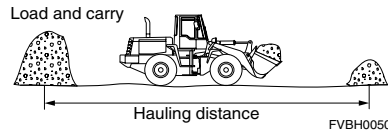
(1) Bucket fill factor

In a load and carry operation, fully heaped bucket causes soil spillage from bucket during hauling, so partially heaped bucket is recommendable.

Use a bucket fill factor of 0.7 ~ 0.9.

2. Cycle time (Cm)

$$Cm = \frac{D}{\frac{1000VF}{60}} + \frac{D}{\frac{1000VR}{60}} + Z$$



Where **D** : Hauling distance (m, yd)
VR: Return speed (km/hr; MPH)

VF : Travel speed with load (km/hr; MPH)
Z : Fixed time (min)

(1) Travel speed for wheel loader

Operation conditions		Speed km/hr(MPH)	
		Loaded	Empty
Good	Hauling on well compacted flat road, few bumps in road surface, no meeting other machines, can concentrate on L & C.	10 ~ 23 (6.2 ~ 14)	11 ~ 24 (6.8 ~ 15)
Average	Few bumps on road surface, flat road, some auxiliary work carrying large lumps of rock.	10 ~ 18 (6.2 ~ 11)	11 ~ 19 (6.8 ~ 12)
Rather poor	Bumps in road surface, high rate of auxiliary work.	10 ~ 15 (6.2 ~ 9.3)	10 ~ 16 (6.2 ~ 10)
Poor	Large bumps in road, meeting other machines, difficult to carry out smooth work, large amount of auxiliary work.	9 ~ 12 (5.6 ~ 7.5)	9 ~ 14 (5.6 ~ 8.7)

(2) Fixed time (Z)

$$Z = t_1 + t_2 + t_3 + t_2$$

where **Z** : 0.60 ~ 0.75 (min.)

t₂ : Turning time (0.15 min.)

t₁ : Loading time (0.20 ~ 0.35 min.)

t₃ : Dumping time (0.10 min.)

3. Job efficiency (E)

The following table gives typical job efficiency as a rough guide. To obtain the actual production figure, determine the efficiency in accordance with actual operating conditions.

Operating conditions	Job efficiency
Good	0.83
Average	0.80
Rather poor	0.75
Poor	0.70

HYDRAULIC EXCAVATORS**(CONSTRUCTION APPLICATION)**

$$Q = q \times \frac{3600}{C_m} \times E$$

where **Q** : Hourly production (m³ /hr; yd³ /hr) **q** : Production per cycle (m³; yd³)
C_m : Cycle time (sec.) **E** : Job efficiency

1. Production per cycle (q)

$$q = q_1 \times K$$

where **q₁** : Bucket capacity (heaped) (m³; yd³) **K** : Bucket fill factor

(1) Bucket fill factor

The bucket fill factor varies according to the nature of material.

A suitable factor can be selected from the table, taking into consideration the applicable excavating conditions.

Table 9 Bucket fill factor (Backhoe)

~ PC2000	Excavating Conditions	Bucket fill factor
Easy	Excavating natural ground of clayey soil, clay, or soft soil	1.1 ~ 1.2
Average	Excavating natural ground of soil such as sandy soil and dry soil	1.0 ~ 1.1
Rather difficult	Excavating natural ground of sandy soil with gravel	0.8 ~ 0.9
Difficult	Loading blasted rock	0.7 ~ 0.8

Table 10 Bucket fill factor (Loading shovel)

~ PC2000	Excavating Conditions	Bucket fill factor
Easy	Loading clayey soil, clay, or soft soil	1.0 ~ 1.1
Average	Loading loose soil with small diameter gravel	0.95 ~ 1.0
Rather difficult	Loading well blasted rock	0.90 ~ 0.95
Difficult	Loading poorly blasted rock	0.85 ~ 0.90

2. Cycle time (Cm)

Cycle time = Excavating time + swing time (loaded) + dumping time + swing time (empty)

However, here we use **cycle time = (standard cycle time) × (conversion factor)**

The standard cycle time for each machine is determined from the following table.

Table 11 Standard cycle time for backhoe

Unit: sec

Model	Range	Swing angle		Model	Range	Swing angle	
		45° ~ 90°	90° ~ 180°			45° ~ 90°	90° ~ 180°
PC78		10 ~ 13	13 ~ 16	PC270, PC290		15 ~ 18	18 ~ 21
PW140		11 ~ 14	14 ~ 17	PC300, PC350		15 ~ 18	18 ~ 21
PC130		11 ~ 14	14 ~ 17	PC400, PC450		16 ~ 19	19 ~ 22
PC160		13 ~ 16	16 ~ 19	PC600		17 ~ 20	20 ~ 23
PW160, PW180		13 ~ 16	16 ~ 19	PC750, PC800, PC850		18 ~ 21	21 ~ 24
PC180		13 ~ 16	16 ~ 19	PC1250		22 ~ 25	25 ~ 28
PC200, PC210		13 ~ 16	16 ~ 19	PC2000		24 ~ 27	27 ~ 30
PW200, 220		14 ~ 17	17 ~ 20				
PC220, PC230, PC240		14 ~ 17	17 ~ 20				

Table 12 Standard cycle time for loading shovel

Model	sec
PC400	16 ~ 20
PC600, PC750, PC800	18 ~ 22
PC1250	20 ~ 24
PC2000	27 ~ 31

Table 13 Conversion factor for excavator

Digging condition $\left(\frac{\text{Digging depth}}{\text{Specified max. digging depth}} \right)$	Dumping condition			
	Easy (Dump onto spoil pile)	Normal (Large dump target)	Rather difficult (Small dump target)	Difficult (Small dump target requiring maximum dumping reach)
Below 40%	0.7	0.9	1.1	1.4
40 ~ 75%	0.8	1	1.3	1.6
Over 75%	0.9	1.1	1.5	1.8

3. Job efficiency (E)

The following table gives typical job efficiency as a rough guide. To obtain the actual production figure, determine the efficiency in accordance with actual operating conditions.

Operating conditions	Job efficiency
Good	0.83
Average	0.75
Rather poor	0.67
Poor	0.58

(MINING APPLICATION)

The production for Mining Shovels should be calculated on loaded trucks per hour

Hourly production = loaded truck per hour x truck capacity x time utilisation

$$Qh = Tn \times Tq \times E$$

Theoretical loaded trucks per hour = 3600 sec/(Loading time per truck + spotting time per truck)

$$Tn = 3600/(tT + tsp)$$

Loading time per truck = (truck size/bucket capacity) rounded x cycle time

$$tT = (Tq/(Bc \times K \times \text{loose density})) \text{ rounded} \times tc$$

Gh = hourly production (ton/hr; US ton/hr)

Tn = number of loaded trucks per hour

Tq = truck capacity (ton; US ton)

E = time utilisation per hour (%)

tT = truck loading time (sec)

tsp = truck spotting time (sec)

Bc = bucket capacity (m³; cu.yd)

K = bucket fill factor (%)

tc = cycle time (sec)

Yearly production = (hours per year - service hours) x availability x mine efficiency

$$QY = Qh \times (hy - hs) \times Sa \times M$$

QY = yearly production

hy = theoretical hours per year (hr)

hs = service hour per year (hr)

Sa = mining shovel availability (%)

M = mine efficiency (%)

1. Cycle time (tc)

The following tables give a rough guide line for estimating a production.

Attention:

- 1) Cycle times are average figures and for diggable material only
- 2) With skilled operator only
- 3) Every 10 degrees more swing will increase the cycle time by 1 second
- 4) Cycle times for standard attachments only
- 5) Following cycle times are without commitment, due to different job side conditions

(1) Backhoe

Model	Digging conditions			Backhoe application
	Easy	Average	Severe	
PC3000	23 ~ 25	26 ~ 28	29 ~ 31	<ul style="list-style-type: none"> • Truck on lower level • Average swing 45°
PC4000	23 ~ 26	27 ~ 29	30 ~ 32	
PC5500	24 ~ 27	28 ~ 30	31 ~ 33	
PC8000	25 ~ 28	29 ~ 31	32 ~ 34	

Model	Digging conditions			Backhoe application
	Easy	Average	Severe	
PC3000	32 ~ 35	36 ~ 38	39 ~ 41	<ul style="list-style-type: none"> • Truck on upper level • Average swing 120° • Optimized working depth 4-5 m (13'1"-16'5")
PC4000	33 ~ 36	37 ~ 39	40 ~ 42	
PC5500	34 ~ 37	38 ~ 40	41 ~ 43	
PC8000	35 ~ 38	39 ~ 41	42 ~ 44	

Model	Digging conditions			Backhoe application
	Easy	Average	Severe	
PC3000	26 ~ 29	30 ~ 32	33 ~ 35	<ul style="list-style-type: none"> • Split bench application • Average swing 90°-120°
PC4000	27 ~ 30	31 ~ 33	34 ~ 36	
PC5500	28 ~ 31	32 ~ 34	35 ~ 37	
PC8000	29 ~ 32	33 ~ 35	36 ~ 38	

(2) Front shovel

Model	Digging conditions			Front shovel application
	Easy	Average	Severe	
PC3000	24 ~ 26	27 ~ 29	30 ~ 32	<ul style="list-style-type: none"> • Truck on same level • Average swing 60°
PC4000	24 ~ 27	28 ~ 30	31 ~ 33	
PC5500	25 ~ 28	29 ~ 31	32 ~ 34	
PC8000	26 ~ 29	30 ~ 32	33 ~ 35	

2. Time utilisation per hour (E)

The following table gives typical time utilisation as a rough guide. To obtain the actual production figure, determine the value in accordance with actual operating conditions.

Operating conditions	Time utilisation
Good	0.83
Average	0.75
Rather poor	0.67
Poor	0.58

3. Bucket fill factor (K)

The bucket fill factor varies according to the nature of material.

A suitable factor can be selected from the table, taking into consideration the applicable excavating conditions.

Bucket fill factor (Backhoe)

PC2000 ~ PC8000	Excavating Conditions	Bucket fill factor
Easy	Excavating natural ground of clayey soil, clay, or soft soil	1.0
Average	Excavating natural ground of soil such as sandy soil and dry soil	0.95
Severe	Excavating natural ground of sandy soil with gravel Loading blasted rock	0.9

Bucket fill factor (Front shovel)

PC2000 ~ PC8000	Excavating Conditions	Bucket fill factor
Easy	Loading clayey soil, clay, or soft soil	1.0
Average	Loading loose soil with small diameter gravel	0.95
Severe	Loading well blasted rock Loading poorly blasted rock	0.9

DUMP TRUCKS

When carrying out operations using a suitable number of dump trucks of suitable capacity to match the loader, the operating efficiency is calculated in the following order:

1. Estimating the cycle time

The cycle time of a dump truck consists of the following factors.

- (1) Time required for loader to fill dump truck
- (2) Hauling time
- (3) Time required for unloading (dumping) plus time expended for standby until unloading is started.
- (4) Time required for returning
- (5) Time required for dump truck to be positioned for loading and for the loader to start loading

Accordingly, the cycle time = (1) + (2) + (3) + (4) + (5)

The cycle time is calculated as follows:

Cycle time of dump truck (Cmt)

$$Cmt = n \times Cms + \frac{D}{V_1} + t_1 + \frac{D}{V_2} + t_2$$

(1) (2) (3) (4) (5)

- (1) : Loading time
- (2) : Hauling time
- (3) : Dumping time
- (4) : Returning time
- (5) : Spot and delay time

Where, n: Number of cycles required for loader to fill dump truck

$$n = C_1 / (q_1 \times K)$$

C₁ : Rated capacity of dump truck (m³, yd³)

q₁ : Bucket capacity of loader (m³, yd³)

K : Bucket fill factor of loader

Cms: Cycle time of loader (min)

D: Hauling distance of dump truck (m, yd)

V₁: Average speed of loaded truck (m/min, yd/min)

V₂: Average speed of empty truck (m/min, yd/min)

t₁: Time required for dumping + time required for standby until dumping is started (min)

t₂: Time required for truck to be positioned and for loader to start loading (min)

1) Loading time

The time required for a loader to load a dump truck is obtained by the following calculation.

Loading time = Cycle time (Cms) × No. of cycles to fill dump truck (n)

a) Cycle time of loader (Cms)

The cycle time of a loader is dependent on the type of loader (excavator, crawler type loader, wheel loader, etc.)

For the cycle time of loaders, refer to the section pertaining to the estimation of the production of loaders.

b) Number of cycles required for loader to fill dump truck full (n)

The payload of a dump truck depends on its capacity or weight.

Where the payload is determined by the capacity, $n = \frac{\text{Rated capacity (m}^3, \text{yd}^3) \text{ of dump truck}}{\text{Bucket capacity (m}^3, \text{yd}^3) \times \text{bucket fill factor}}$

Where the payload is determined by the weight, $n = \frac{\text{Rated capacity (m}^3, \text{yd}^3) \text{ of dump truck}}{\text{Bucket capacity (m}^3, \text{yd}^3) \times \text{bucket fill factor} \times \text{specific weight}}$

- * The bucket capacity and the body capacity, as a general rule, refer to heaped capacity but may be used to refer to struck capacity depending on the nature of materials to be handled.
- * The bucket fill factor is determined by the nature of soil to be excavated or loaded. In case of dozer shovels or wheel loaders, a suitable factor can be selected from among those given in Table 3, 9, 10 according to the applicable loading condition.

2) Material hauling time and returning time

The time taken to haul a load and return empty, can be calculated by dividing the haul road into sections according to the rolling resistance and grade resistance, as follows.

a) Rolling resistance and grade resistance

As described above, the haul road is divided into several sections according to the rolling resistance and grade resistance. All of these rolling resistance and grade resistance values are summed up, resulting in the totals for each resistance.

The rolling resistance for the haul road conditions can be selected by referring to Table 14. The grade resistance can be obtained by averaging the gradients in all sections, which is converted (from degrees to percent). Table 15 indicates the grade resistance values (%) converted from the angles of gradients.

Table 14 Rolling resistance

Haul road conditions	Rolling resistance
Well-maintained road, surface is flat and firm, properly wetted, and does not sink under weight of vehicle	2%
Same road conditions as above, but surface sinks slightly under weight of vehicle	3.5%
Poorly maintained, not wetted, sinks under weight of vehicle	5.0%
Badly maintained, road base not compacted or stabilized, forms ruts easily	8.0%
Loose sand or gravel road	10.0%
Not maintained at all, soft, muddy, deeply rutted	15 to 20%

Table 15 Grade resistance (%) converted from angle (°) of gradient

Angle	% (sin α)	Angle	% (sin α)	Angle	% (sin α)
1	1.8	11	19.0	21	35.8
2	3.5	12	20.8	22	37.5
3	5.2	13	22.5	23	39.1
4	7.0	14	24.2	24	40.2
5	8.7	15	25.9	25	42.3
6	10.5	16	27.6	26	43.8
7	12.2	17	29.2	27	45.4
8	13.9	18	30.9	28	47.0
9	15.6	19	32.6	29	48.5

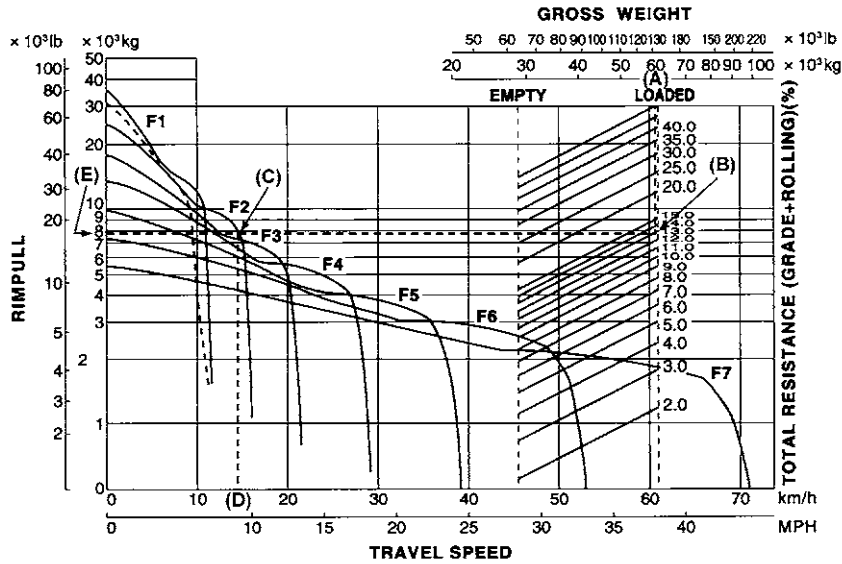
b) Selection of the travel speed

The speed range suited to the resistance, and the maximum speed, can be obtained by using the Travel Performance Curve appears in the spec sheet.

To use, first draw a vertical line according to the vehicle's weight (A) and mark the point (B) corresponding to total resistance (the sum of rolling resistance and grade resistance).

Next, draw a horizontal line from (B), then mark (C) where the line intersects the rimpull curve and read (E) for the rimpull. For travel speed (D), draw a vertical line downward from (C). For instance, when traveling a 8% gradient and encountering a 5 % rolling resistance, a vehicle with a maximum payload should have a rimpull of 8 tons (8.8 ton) and travel at a speed of 15.0 km/h (9.3 MPH) in forward 2nd gear.

Fig. 1 KOMATSU HD325 Dump Truck Travel Performance Curve



The maximum speed thus obtained is a theoretical value, and in order to convert this maximum speed to a practicable average speed, the speed should be multiplied by a speed factor. An applicable speed factor can be selected from the following table.

How to select a speed factor

If a truck is to start off downhill, gear shifting to a desired speed can be accomplished in a short time. In such a case, a rather higher value should be used in each range of factors. On the other hand, if a truck is to start off on a level road or uphill, it will take a comparatively long time for gear-shifting to a desired speed to be accomplished and thus, the lower factor value should be selected in an applicable range of factors.

Table 16 Speed factors

Distance of each section of haul road, m	When making a standing start	When running into each section
0 - 100	0.25 - 0.50	0.50 - 0.70
100 - 250	0.35 - 0.60	0.60 - 0.75
250 - 500	0.50 - 0.65	0.70 - 0.80
500 - 750	0.60 - 0.70	0.75 - 0.80
750 - 1000	0.65 - 0.75	0.80 - 0.85
1000 -	0.70 - 0.85	0.80 - 0.90

Thus, the average speed can be obtained in the following manner:

The average speed =
Maximum vehicle speed obtained from the travel performance curve × (Speed factor)

The above average speed is applicable in ordinary driving conditions. If there is any factor retarding the vehicle speed, an applicable factor should be used.

The following can be cited as factors retarding a vehicle speed.

- Vehicles passing each other on a narrow road
- Sharp curve or many curves in the road
- Points giving poor visibility
- Narrow bridges or at railway crossings, intersections of roads
- Extreme differences in rolling resistance
- Pot-holes on the road
- Un-experienced or unskilled operators

These factors should be eliminated wherever possible.

c) Hauling time

If the hauling distance in each section is divided by the average speed given in the preceding paragraph, the hauling time in each section will be obtained. If all of these times (for hauling and returning) are added together, they will give the total hauling and returning time.

Hauling time and returning time in each section

$$= \frac{\text{Length of section (m)}}{\text{Average speed (m/min.)}}$$

d) Vehicle speed limitation for a downhill run

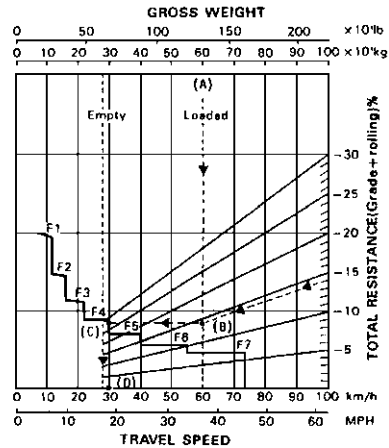
Calculation of a vehicle speed as described in Paragraphs a) to c) is effected with the total resistance in 0 or in a plus value. If the total resistance is a minus value, the vehicle speed will ordinarily be limited by the retarder function with a given distance.

In the case of the HD325 dump truck, the maximum speed at which the truck can safely go down a hill can be obtained in the brake performance curve in Fig. 2. (Grade distance continuous).

For example, assume the total resistance is -14% (gradient resistance is -16% plus rolling resistance +2%) on the "continuous grade" graph. First, draw a vertical line from the total vehicle weight(A) so that it crosses the slanted line of 14% total resistance(B). From(B), draw a horizontal line to the left and it will cross the stair curve at (C).

Finally, draw a vertical line from(C) and read(D) the maximum speed for driving safely down the slope. In this case, a vehicle with a 32-ton payload should travel at approximately 30 km/h (18.6 MPH) in forward 4th gear.

Fig. 2 HD325 Brake Performance (Grade distance continuous)



3) Dumping time

This is the period from the time when the dump truck enters the dumping area, to the time when the dump truck starts its return journey after completing the dumping operation. The length of the dumping time depends on the operating conditions, but average dumping times for favorable average and unfavorable conditions are given by the following table.

However, particularly adverse conditions giving rise to extremely long dumping times are excluded.

Operating conditions	t ₁ , min.
Favorable	0.5 to 0.7
Average	1.0 to 1.3
Unfavorable	1.5 to 2.0

4) Time required for the truck to be positioned and for the loader to begin loading.

The time taken for the truck to be positioned and for the loader to begin loading also depends on the operating conditions. As a general rule, a suitable time can be selected from the table at right.

Operating conditions	t ₂ , (min.)
Favorable	0.1 to 0.2
Average	0.25 to 0.35
Unfavorable	0.4 to 0.5

As has so far been described, the cycle time of a dump truck can be estimated by using the values for factors obtained according to paragraph 1) to 4).

2. Estimating the number of dump trucks required (M)

The quantity of dump trucks required for use in combination with a loader working at its maximum operating efficiency can be estimated by the following formula:

$$M = \frac{\text{Cycle time of a dump truck}}{\text{Loading time}} = \frac{Cmt}{n \times Cms}$$

Where, n : Number of cycles required for a loader to fill a dump truck
 Cms : Cycle time of loader (min)
 Cmt : Cycle time of dump truck (min)

3. Estimating the productivity of dump trucks

The total hourly production P of several dump trucks where they are doing the same job simultaneously is estimated by the following formula:

$$P = C \times \frac{60}{Cmt} \times E_t \times M$$

Where, P : Hourly production (m³/h;yd³/hr)
 E_t : Job efficiency of dump truck
 M : Q'ty of dump trucks in operation
 C : Production per cycle C = n × q₁ × K
 Where, n : Number of cycles required for loader to fill dump truck
 q₁ : Bucket capacity of loader (m³, yd³)
 K : Bucket fill factor of loader
 Cmt : Cycle time of dump truck

Table 16 gives typical job efficiency as a rough guide.

To obtain the actual production figure, determine the efficiency in accordance with actual operating conditions.

Table 16 Job efficiency of dump truck (E_t)

Operating conditions	Job efficiency
Good	0.83
Average	0.80
Rather poor	0.75
Poor	0.70

4. Combined use of dump trucks and loaders

When dump trucks and loaders are used in combination, it is most desirable that the operating capacity of the dump trucks be equal to that to the loaders. That is, conditions satisfying the following equation are most desirable. Consequently, if the value of the left equation is larger, the group of dump trucks has a surplus capacity. On the other hand, if the value of the right equation is larger, the group of loaders has a surplus capacity.

$$C \times \frac{60}{Cmt} \times E_t \times M \geq q_1 \times K \times \frac{60}{Cms} \times E_s$$

Where, Cms : Cycle time of a loader (min) E_s : Job efficiency of loader
 q₁ : Bucket capacity (heaped (m³; yd³)) K : Bucket fill factor

The left equation has already been described. The right equation has the following meaning.

EXAMPLE

• A HD325, working in combination with a WA600, is hauling excavated material to a spoil-bank 500 meters away.
What is the hauling capacity of the HD325?

Working conditions for dump truck:

Haul distance: flat road: 450 m
 slope: 50 m
 gradient of slope: 10%

Speed limits:

For safety purposes, the following maximum speeds should not be exceeded.

Haul road condition:

Road with sunken surface, not wetted, poorly maintained.

Type of soil:

Sandy clay (loose density 1.6 tons/ m³)

Job efficiency:

0.83 (good operating conditions)

		Speed
Flat	Loaded	40 km/h
	Unloaded	60 km/h
Uphill	Loaded	20 km/h
	Unloaded	40 km/h
Downhill	Loaded	20 km/h
	Unloaded	40 km/h

Wheel Loader: Bucket capacity : 5.4m³ (7.1cu.yd)
 Cycle time : 0.65 min
 Bucket fill factor : 0.9
 Job efficiency : 0.83

Answer

(a) Cycle time (Cmt)

(i) Loading time

Cycle time of loader Cms = 0.65 min
 Number of cycles required for loader to fill dump truck

$$n = \frac{\text{Rated capacity of dump truck}}{\text{Bucket capacity} \times \text{bucket fill factor} \times \text{loose density}} = \frac{32 \text{ tons (max. payload)}}{5.4 \text{ m}^3 \times 0.9 \times 1.6} = 4.12$$

n is taken to be 4.

Loading time = n × Cms = 4 × 0.65 = 2.60 min.

(ii) Hauling time and returning time

The hauling distance is divided up and the time taken to cover each section should be calculated.

Hauling:	1 Flat	330 m	Returning:	4 Flat	120 m
	2 Uphill	50 m		5 Downhill	50 m
	3 Flat	120 m		6 Flat	330 m

Net weight of dump truck (unloaded): 27,200 kg (figure in specifications)

Loaded weight :

$$\begin{aligned} \text{Weight when loaded} &= n \times \text{bucket capacity} \times \text{bucket fill factor} \times \text{loose specific gravity} \times 1,000 \\ &= 4 \times 5.4 \text{ m}^3 \times 0.9 \times 1.6 \times 1,000 = 31,104 \text{ kg} \end{aligned}$$

$$\text{Weight of loaded dump truck} = 27,200 \text{ kg} + 31,104 \text{ kg} = 58,304 \text{ kg}$$

Using the Travel Performance Curve and Brake Performance Curve, the maximum speed for each section can be calculated.

The values for HD325 can be calculated from PERFORMANCE CURVE on the section 7A.

The result is shown in the table below and the table of Hauling time and Returning time is 3.00 min.

Calculation of Hauling time and Returning time

		Dis- tance	Grade Resis- tance	Rolling Resis- tance	Total Resis- tance	Speed Range	Max. Travel Speed	Speed Factor	Ave. Speed	Time Taken
Hauling (Loaded)	Flat	330	0	5%	5%	F5	36 km/h (600 m/min)	0.50	300.0 m/min	1.10 min
	Uphill	50	10 %	5%	15%	F2	11 km/h (183 m/min)	0.60	109.8 m/min	0.46
	Flat	120	0	5%	5%	F5	36 km/h (600 m/min)	0.60	300.0 m/min	0.40
Returning (Unloaded)	Flat	120	0	5%	5%	F6	53 km/h (883 m/min)	0.35	309.1 m/min	0.39
	Down- hill	50	-10 %	5%	-5%	F6	*40 km/h (667 m/min)	0.70	466.9 m/min	0.11
	Flat	330	0	5%	5%	F6	53 km/h (883 m/min)	0.70	618.1 m/min	0.54
Total										3.00 min

*: In the Brake Performance Curve (Fig. 2), the figure for total resistance is given as -5%. This means that when driving unloaded and using the speed range F6 as shown in the diagram, it is enough to press the accelerator pedal and keep within the speed limit.

(iii) Dumping time and standby time

$$t_1 = 1.15 \text{ min. (average)}$$

(iv) Time required for the dump truck to be positioned for loading, and for the loader to start loading

$$t_2 = 0.3 \text{ min. (average)}$$

(v) Cycle time

$$Cmt = 2.60 + 3.00 + 1.15 + 0.3 = 7.05 \text{ min.}$$

(b) Estimating the production of dump truck

$$P = C \times \frac{60}{Cmt} \times Et = 19.44 \times \frac{60}{7.05} \times 0.83 = 137.3 \text{ m}^3/\text{h}$$

$$C = n \times \text{bucket capacity} \times \text{bucket fill factor} = 4 \times 5.4 \times 0.9 = 19.44 \text{ m}^3$$

MOTOR GRADERS

The motor grader is used for many purposes such as maintaining roads, final finishing for earthmoving projects, trenching and bank cutting.

Therefore there are many methods of expressing its operating capacity.

1. Calculating the hourly operating area (m²/h)

$$Q_A = V \times (L_e - L_o) \times 1000 \times E$$

Where **Q_A** : Hourly operating area (m²/hr) **V** : Working speed (km/hr)
L_e : Effective blade length (m) **L_o** : Width of overlap (m)
E : Job efficiency

NOTE: Graders usually operate on long stretches, so the time required for gear shifting or turning can be ignored.

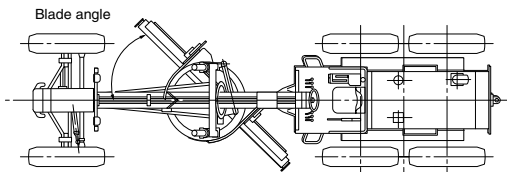
1) Working speed (V)

- Road repair : 2 to 6 km/h
- Bank finishing: 1.6 to 2.6km/h
- Field grading : 1.6 to 4 km/h
- Trenching : 1.6 to 4 km/h
- Snow-removal: 7 to 25 km/h
- Leveling : 2 to 8 km/h

2) Effective blade length (Le), width of overlap (Lo)

Since the blade is normally angled when cutting or grading the surface, the effective blade length depends on the angle.

The width of overlap is usually 0.3 m. Following table gives the values to be used when applying the formula.



Blade length (m)	Effective blade length (m)	
	Blade angle 60°	Blade angle 45°
2.2	1.9	1.6
2.5	2.2	1.8
2.8	2.4	2.0
3.05	2.6	2.2
3.1	2.7	2.2
3.4	2.9	2.4
3.7	3.2	2.6
4.0	3.5	2.8
4.3	3.7	3.0
4.9	4.2	3.5

3) Job efficiency (E)

The following table gives typical job efficiency as a rough guide. To obtain the actual production figure, determine the efficiency in accordance with actual operating conditions.

Operating conditions	Job efficiency
Road repair, leveling	0.8
Snow-removal (V-type plow)	0.7
Spreading, grading	0.6
Trenching, snow-removal	0.5

2. When calculating the time required to finish a specific area.

$$T = \frac{N \times D}{V \times E}$$

Where **T** = Working time (h) **N** = Number of trips
D = Working distance (km) **V** = Working speed (km/hr)
E = Job efficiency

Number of trips (N)

When a grader is operating in a job site, and leveling parallel strips, the number of trips can be calculated by using the following formula:

$$N = \frac{W}{Le - Lo} \times n$$

Where W : Total width to be leveled (m) Le : Effective blade length (m)
 Lo : Width of overlap (m)
 n : Number of grading required to finish the surface to the required flatness.

SOIL COMPACTORS

There are two ways of expressing the productivity of compactors: by the volume of soil compacted, and by the area compacted.

1. Expressing productivity by the volume of soil compacted.

When calculating the productivity by the volume of soil compacted, the following formula is used.

$$Q = \frac{W \times V \times H \times 1000 \times E}{N}$$

Where

Q = Hourly production (m³/hr)(volume of soil compacted)
V = Operating speed (km/hr)
W = Effective compaction width per pass (m)
H = Compacted thickness for one layer (m)
N = Number of compaction (number of passes by compactor)
E = Job efficiency

1) Operating speed (V)

As a general rule the following values are used.

Road roller	about 2.0 km/hr
Tire roller	about 2.5 km/hr
Vibration roller	about 1.5 km/hr
Soil compactor	4 - 10 km/hr
Tamper	about 1.0 km/hr

2) Effective compaction width (W)

Type of Equipment	W
Macadam roller	Driving wheel width - 0.2 m
Tandem roller	Driving wheel width - 0.2 m
Soil compactor	(Driving wheel width × 2) - 0.2 m
Tire roller	Outside-to-outside distance of most outside tires - 0.3 m
Large vibratory roller	Roller width - 0.2 m
Small vibratory roller	Roller width - 0.1 m
Bulldozer	(Width of track shoe × 2) - 0.3 m

3) Compacted thickness for one layer (H)

Compacted thickness is determined from compaction specifications or from the results of tests, but as a general rule, it is 0.2 ~ 0.5 m in loosened soil.

Number of trips (N)

When a grader is operating in a job site, and leveling parallel strips, the number of trips can be calculated by using the following formula:

$$N = \frac{W}{Le - Lo} \times n$$

Where W : Total width to be leveled (m) Le : Effective blade length (m)
 Lo : Width of overlap (m)
 n : Number of grading required to finish the surface to the required flatness.

SECTION **14B**

**EARTHMOVING
DATA**

CONTENTS

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SOIL CLASSIFICATION FOR EARTH-MOVING OPERATIONS

Various classifications have been established properly for soil depending on the purposes of earth-moving operations. Generally speaking, however, detailed classifications of soil are not required for the ordinary earth-moving operations.

Rather, attention is required to be given to whether the soil to be handled is of special ores or contains special clay minerals.

Hereinafter is described the knowledge necessary for earth work planning prior to such operations as digging, loading, hauling, pushing (spreading), rolling compaction, etc., on ordinary terrain.

- * Data (figures) to be given hereinafter vary largely depending on various operating and environmental conditions. Consequently, before starting the earth work, tests should be conducted to obtain correct data for operations.

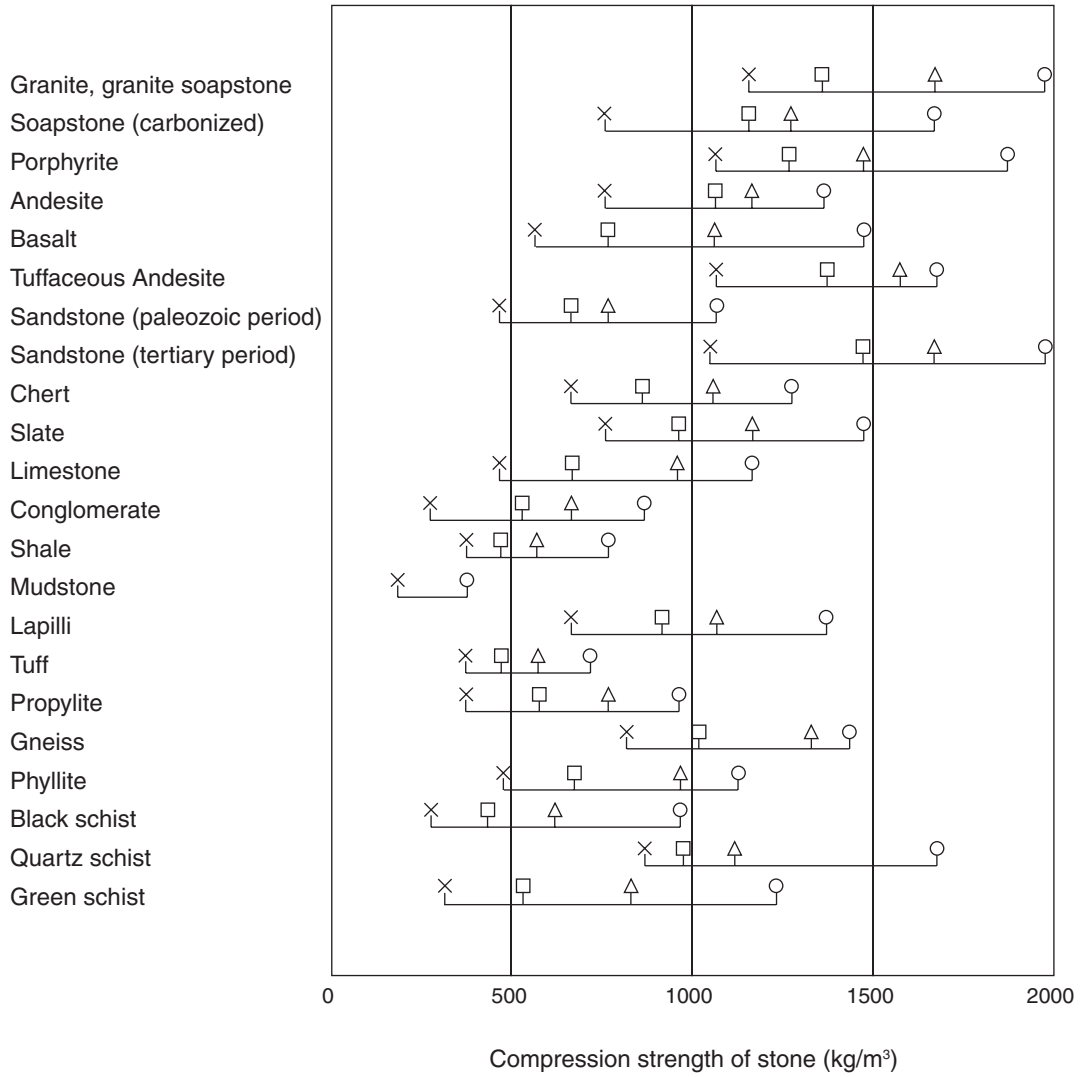
Some knowledge of the weight data per unit volume of materials of their major ingredients is important for their handling or hauling in mines, etc.. The specific weight data of some major types of soil and ingredients are given below.

WEIGHT DATA OF MATERIALS

Material		Specific Gravity (ton/m ³)	
		Bank	Crushed (Loose)
Basalt		2.95	1.7
Bauxite		1.9	1.42
Caliche		2.26	1.25
Carnotite, uranium ore		2.2	1.63
Cinders		0.86	0.56
Clay		1.8	1.45
Clay & gravel		2.0	1.45
Coal	Anthracite	1.3	1.0
	Bituminous	0.59 ~ 0.89	0.53 ~ 0.65
Decomposed Rock - 75% Rock, 25% Earth 50% Rock, 50% Earth 25% Rock, 75% Earth		2.0	1.75
		2.1	1.75
		2.2	1.65
Earth - Dry Wet Loam		1.8	1.4
		2.0	1.6
		1.54	1.25
Granite		2.8	1.6
Gravel		2.17	1.93
Gypsum		3.17	1.81
Hematite, iron ore		3.5	2.0
Limestone		2.8	1.6
Magnetite, iron ore		5.05	2.9
Peat	Dry	0.60 ~ 0.70	0.40 ~ 0.50
	Wet	1.80 ~ 2.00	1.10 ~ 1.20
Pyrite, iron ore		3.03	2.85
Sand - Dry Dump Wet		1.6	1.42
		1.9	1.69
		2.08	1.84
Sand & clay	Loose	2.02	1.6
	Compacted	—	2.4
Sand & gravel	Dry	1.93	1.72
	Wet	2.23	2.02
Sandstone		2.7	1.55
Slag		2.94	1.75
Snow	Dry	—	0.13
	Wet	—	0.52
Stone		2.67	1.6
Taconite		2.36 ~ 2.7	1.63 ~ 1.9
Top soil		1.37	0.95
Trap rock		2.50 ~ 2.70	1.60 ~ 1.80

ROCK TYPES AND COMPRESSION STRENGTHS

○ No cracks □ Some cracks
△ Few cracks × Many cracks

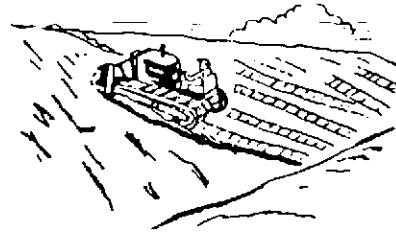
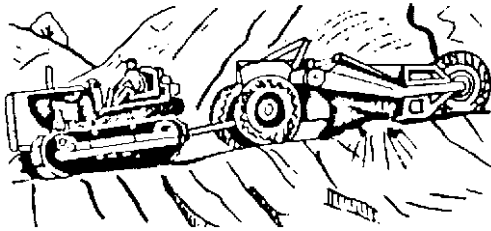


HAULING PERFORMANCE OF CONSTRUCTION MACHINES

INTRODUCTION

"What Model or type of a tractor is most suitable to pull this trailer?" "Is this bulldozer capable of going up this hill while pulling that scraper loaded full?"

In order to give explicit answers to these questions, it is necessary to have the right understanding of the hauling performance of vehicles.



For easy understanding, let us explain the hauling performance with the following machine capabilities and related elements.

- (1) The inherent machine capability
- (2) Elements limiting the inherent machine capability
- (3) Machine capabilities required for earthmoving operations

INHERENT MACHINE CAPABILITY

1. What is the inherent machine capability?

a) Output power

The engine horsepower of a construction machine is the most essential power of those developed by the machine itself. This can be estimated by multiplying one element (traction force) by another element (a travel speed). Accordingly, where the engine of a machine develops a rated power; the smaller the travel speed, the larger the traction force or drawbar pull will be. On the contrary, the larger the travel speed, the smaller the drawbar pull.

b) Gear-shifting

Gear-shifting is effected to determine the optimum drawbar pull and travel speed required for accomplishing a given job. Therefore, a machine has several gears to be selected by shifting for the optimum travel speed.

2. Direct-drive type tractor

The table below gives the drawbar pull and travel speeds of a direct-drive type bulldozer.

Gear-shifting	Travel speed km/h	Rated drawbar pull kg	Max. drawbar pull kg
F1	2.5	27600	34500
F2	3.5	19700	—
F3	4.9	14100	—
F4	6.4	10780	—
F5	8.9	7670	—
F6	12.9	5350	—

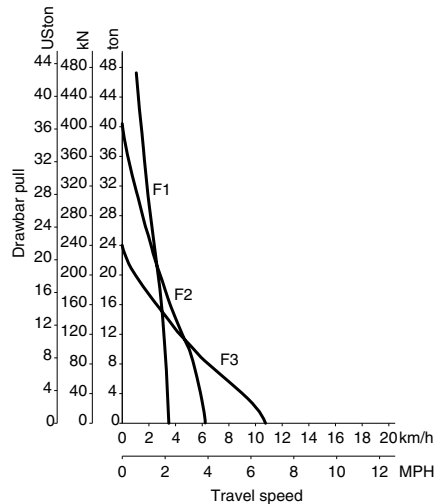
The rated drawbar pull is such a traction force that can be developed at the rated engine power and the rated revolutions (rpm). The rated drawbar pull is normally estimated by taking into account the travelling resistance (which will be explained later) and the mechanical loss of power in its line from the engine to the sprockets.

The maximum drawbar pull is the maximum traction force that can be developed by a machine and is estimated from the maximum engine torque. In other words, the maximum drawbar pull of a machine can be developed by the lugging ability of its prime mover and is practically obtained in a low gear. Consequently, the maximum drawbar pull is shown only at F1 on the specifications.

3. TORQFLOW-drive type tractor

In a TORQFLOW-drive type tractor, the relationships between the travel speeds and drawbar pull are obtained from the combined performance between the engine and the torque converter.

In a TORQFLOW-drive machine, it is difficult to relate both the drawbar pull and travel speeds directly to the engine revolutions. Thus, the hauling performance is indicated by curves. The graph at right gives the hauling performance curves of the TORQFLOW-drive type bulldozer.



ELEMENTS LIMITING THE INHERENT MACHINE CAPABILITY

1. What are the elements limiting the inherent machine capability or power? These are;

- a) Traction between the undercarriage (tracks or wheels) and the road surface.
- b) Altitude

Altitude in b) will be described in a separate issue and herein is examined the problem of traction between the undercarriage and the road surface.

2. Traction between the undercarriage and road surface

"When a motor vehicle cannot be moved due to slipping on the snow-covered road, what should be done to move the vehicle?"

The answers are;

- | <u>Solution</u> | <u>Reason</u> |
|---|---|
| (1) Add load to the driving wheels. | ⇒ The traction force is increased with the added load. |
| (2) Install chain to the wheel tires or replace the tires with the spiked type. | ⇒ The undercarriage is made so as to develop more traction. |
| (3) Scatter sand or spread straw mats on the road surface. | ⇒ The critical traction force is increased by the higher coefficient of traction. |

The above facts can also be applied to a crawler tractor. Now, let us look at the coefficient of cohesion and the critical traction force or traction used in the above table.

The critical traction is the maximum traction available depending on the cohesive condition of the road surface. This can be estimated by the following formula.

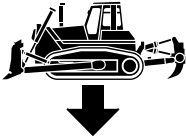
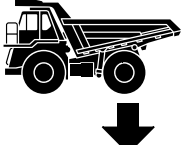
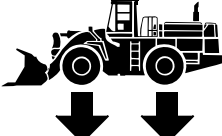
$$F_d = \mu d \cdot G_d$$

Where, F_d : Critical traction (kg)
 μd : Coefficient of traction
 G_d : Weight imposed on the driving wheels (kg)

The coefficient of traction depends on the condition of the road surface. Any applicable coefficient of traction can be selected from among those given in the table below.

	Tractor w/pneumatic tires	Crawler tractor
Dry concrete	0.95	0.45
Dry macadam road	0.70	
Wet macadam road	0.65	
Dry unpaved plain road	0.60	0.90
Dry ground	0.55	0.90
Wet ground	0.45	0.85
Dry loose terrain	0.40	0.60
Loose gravel	0.36	0.25
Loose sand	0.27	0.30
Muddy ground	0.25	0.25
Packed snow	0.20	0.15
Ice	0.12	0.12

Weight to be imposed on the driving wheels can be determined by referring to the table below

Crawler type tractor	2-wheel drive machine	4-wheel drive machine
		
Total weight of tractor	Weight imposed on the driving wheels	Total weight of tractor

Example (1) Assume that the D155 tractor pulling a towed compactor must do compaction in a dry, loose terrain. What is the critical drawbar pull?

Solution: The operating weight of the D155 tractor is 26730 kg. Then, $F_d = 0.60 \times 26730 = 16040$ kg

Example (2) What are the values of the drawbar pull which the D50A-15 bulldozer can develop at F1 and F2 in a dry, loose terrain?

Solution: The operating weight of the D50A-15 bulldozer is 11400 kg. Its critical drawbar pull is $11400 \times 0.60 = 6840$ kg.
 The rated drawbar pull indicated in its specifications is 8280 kg at F1 or 5920 kg at F2.

Consequently

at F1: The rated drawbar pull is 8280kg, but the tracks will start shoe slip at the drawbar pull beyond 6840kg, making it impossible for its drawbar pull to be utilized to the full. Thus, the critical drawbar pull practically available is 6840 kg.

at F2: The rated drawbar pull is 5920kg. Thus, the drawbar pull can be utilized to the full.

MACHINE CAPABILITIES REQUIRED FOR EARTHMOVING OPERATIONS

1. What are the elements limiting the machine capabilities required for earthmoving operations?

When a truck is traveling on the road or going uphill, the following phenomena will be encountered as a matter of course.

<u>Phenomenon</u>	<u>Influential element</u>
(1) The travel speed of a truck with load on the flat road should vary when the same truck with the same load travels on the rugged or rutted surface.	⇒ Rolling resistance
(2) When traveling on the flat road or going uphill in the same operating gear, the travel speed should vary as a matter of course.	⇒ Grade resistance

2. Rolling resistance

When a vehicle is traveling on the ground or road, the retarding force of ground against wheels or tracks should take place. Such a resistance varies depending on the ground or road surface conditions.

The rolling resistance is measured in the ratio to the vehicle weight and can be estimated by the following formula.

$$W_r = \mu_r \cdot G$$

Where, W_r : Rolling resistance (kg) μ_r : Coefficients of rolling resistance
 G : Vehicle operating weight

The coefficient of rolling resistance can be selected from among those given in the table below, according to the ground or road surface conditions.

The coefficient of rolling resistance can be selected from among those given in the table below, according to the ground or road surface conditions.

Type and conditions of ground	μ_r (%)		
	Vehicle w/iron wheel treads	Crawler tractor	Tractor w/pneumatic tires wheels
Iron truck	1.0		
Concrete floor	2.0	2.8	2.3
Macadam road	2.9	3.3	2.8
Wood pavement	2.5		
Dry unpaved plain road	4.5	4.6	3.5
Firm terrain	10.0	5.5	4.0
Dry, loose terrain	11.5	6.5	4.5
Soft terrain	16.0	8.0	9.0
Loose gravel	15.0	9.0	12.0
Loose sand	15.0	9.0	12.0
Muddy ground		12.0	16.0
Packed snow			3.7
Ice			2.0

In a crawler tractor, too, the rolling resistance should vary depending on the type of applied soil. The representative values of rolling resistance, however, are taken into account in preparing the curves for drawbar pull and hauling performance of crawler tractors. Therefore, the varying rolling resistance may practically be ignored.

Example (3) What is the rolling resistance of the D85-12 tractor to pull the RS12 scraper (empty). The ground surface is in a soft terrain.

Solution: The weight of an RS12 scraper (empty) is 10500 kg
The rolling resistance = $0.09 \times 10500 = 945\text{kg}$

Example (4) What is the rolling resistance of the D155 tractor to pull the RS24 scraper loaded full. The ground surface is in a dry loose terrain.

Solution: The net weight of an RS24 is 18000 kg
The maximum payload is 34080 kg
The gross weight is 52080 kg
Thus, the rolling resistance = $0.045 \times 52080 = 2340\text{ kg}$

3. Grade resistance

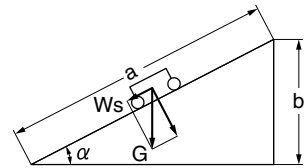
The grade resistance is the retarding force of gravity to be encountered when a vehicle is going uphill. The grade resistance can be estimated by the following formula.

$$W_s = G \cdot \sin \alpha$$

Where, W_s : Grade resistance (kg)

G : Operating weight of a vehicle (kg)

α : Angle formed with the horizon (degree)



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A grade (degree) and $\sin \alpha$ can be selected from among those given in the table below.

Grade resistance (%) converted from angle (°) of gradient

Grade resistance (%) converted from angle (°) of gradient

Angle	% (sin α)	Angle	% (sin α)	Angle	% (sin α)
1	1.8	11	19.0	21	35.8
2	3.5	12	20.8	22	37.5
3	5.2	13	22.5	23	39.1
4	7.0	14	24.2	24	40.2
5	8.7	15	25.9	25	42.3
6	10.5	16	27.6	26	43.8
7	12.2	17	29.2	27	45.4
8	13.9	18	30.9	28	47.0
9	15.6	19	32.6	29	48.5
10	17.4	20	34.2	30	50.0

Example (5) What is the grade resistance against the D50A-15 angledozer going uphill at 15° ?

Solution: The operating weight of the D50A-15 angledozer is 11400 kg. Thus, the grade resistance will be $11400 \times 0.259 = 2950\text{ kg}$

4. Hauling resistance

The hauling resistance is the grand total of the rolling resistance, grade resistance, accelerating resistance and air resistance. However, construction machines are slow in the travel speed. Normally, the hauling resistance of construction machines may be considered to be the total of the rolling resistance and grade resistance.

The grade resistance acts so as to retard the uphill traveling of a vehicle, whereas the grade resistance acts so as to accelerate the downhill traveling. The above relationships can be indicated as follows:

Conditions

Uphill traveling
Traveling on flat, level surface
Downhill traveling

Haul resistance

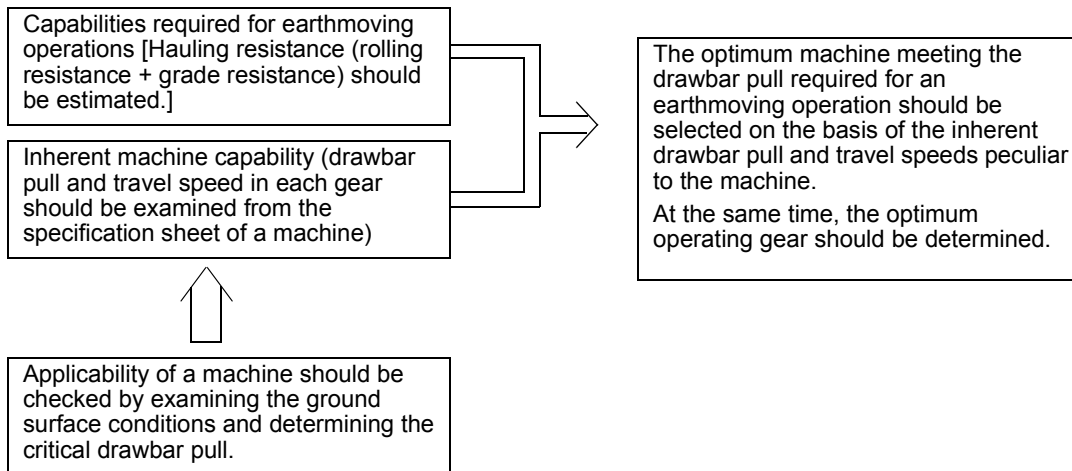
Rolling resistance + grade resistance
Rolling resistance.
Rolling resistance – grade resistance

Example (6) What is the hauling resistance against the D60-6 tractor going uphill at 4° in a dry, loose terrain, while pulling an RS08 scraper with maximum load?

Solution: The gross weight of the RS08 with maximum load is 18870 kg.
The rolling resistance factor is 0.045. Thus, the rolling resistance is $0.045 \times 18870 = 850$ kg
The weight of the D60-6 tractor is 12550 kg.
The gross weight of the RS08 is 18870 kg.
Then, the total weight of both machines is 31420 kg
Consequently, the grade resistance is $0.07 \times 31420 = 2200$ kg.
Thus, the hauling resistance is $850 + 2200 = 3050$ kg.

SUMMARY AND APPLICATION

1. Summary



2. Application

Example (7) Assume that the D65 tractor is used to pull a wheeled wagon (the empty weight: 17 tons) with a 50-ton load in a dry, loose terrain.
What are the operating gears and the corresponding approx. travel speeds available on a flat, level ground? What is the degree of a hill climbable under the same condition?

Solution: The rolling resistance

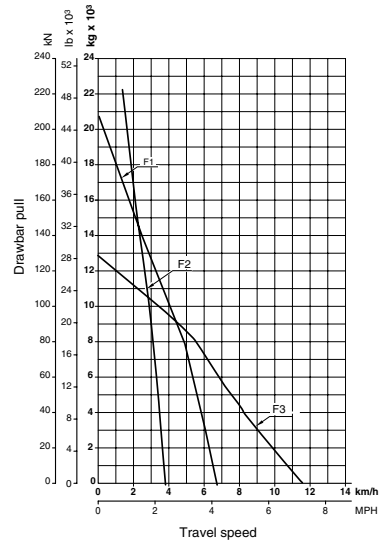
Weight of the wagon (empty): 17000 kg Payload: 50000 kg
Total weight: 67000 kg Coefficient of rolling resistance: 0.045
Consequently the rolling resistance against the wagon is $67000 \times 0.045 = 3015$ kg

Operating gears and travel speeds on flat, level ground

From the hauling performance curves below, the operating gears and travel speeds at a 3015 kg drawbar pull are:

approx. 9.0 km/h at F3 or

approx. 6.0 km/h at F2



Critical drawbar pull

The operating weight of D65 tractor: 12750 kg

Coefficient of traction: 0.60

Consequently, the critical drawbar pull is $12750 \times 0.60 = 7650$ kg

Degree of a climbable hill (gradeability)

Tractor weight + wagon weight + pay load = $12750 + 17000 + 50000 = 79750$ kg

The grade resistance retarding per angle of grade is $79750 \times 0.018 = 1435$ kg

Consequently,

$$\text{Gradeability} \left(\frac{\text{Critical drawbar pull} - \text{rolling resistance}}{\text{Grade resistance per angle of grade}} \right) \text{ will be } \frac{7650 - 3015}{1435} = 3.2 \text{ (degree)}$$

The explanations made so far on the travelling or hauling performance of construction machines pertain only to the traveling of individual machines and the pulling of towed vehicles by tractors. For instance where a tractor pulls a scraper, it can be judged whether the tractor can be used for this purpose, but it can not be determined whether the tractor can perform a digging or a loading operation under the same conditions as mentioned above. Operators or field-superintendents are requested to keep it in mind that such a judgement should be based on the operators' accumulated experiment or on the reference for such operating combinations or cooperation among towing tractors and towed vehicles as recommended by KOMATSU.

TRAFFICABILITY

Operating efficiency of a construction machine depends largely on the ground surface on which the machine travels. In clay, loam or clayey soil high in water or moisture content, the bearing force of soil is low and a "kneading" phenomenon is liable to occur. Consequently, there are cases where a construction machine cannot be operated because of the type and conditions of soil. The degree of the traveling capability of a construction machine is called the traffic-ability.

In general, traffic-ability is indicated by a cone index No. (The method of measuring a cone index No. will be described later.)

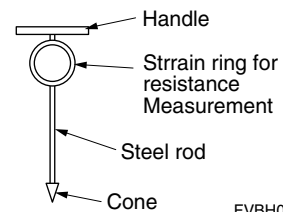
The larger the cone index number becomes, the higher the traffic-ability of the machine will become. In other words, on the soil larger in cone index No., a construction machine will be able to travel easier.

The minimum cone index numbers required for various types of construction machines to perform digging, hauling operations, etc. are given below.

Cone index No.	Type of construction machine	Ground pressure (kg/cm ²)
Below 2	Ultra swamp bulldozer (PL class)	0.15 ~ 0.25
2 to 4	Swamp bulldozer (P Class)	0.2 ~ 0.3
4 to 5	Small-size bulldozer (D20 ~ D31)	0.3 ~ 0.6
5 to 7	Medium-size bulldozer (D41~D75S)	0.6 ~ 0.8
7 to 10	Large-size bulldozer (D85 ~ D575) & towed scraper	0.7 ~ 1.5
10 to 13	Motor scraper	
15 & more	Dump truck	

NOTE:

In determining a cone index, apply the cone penetrometer at 3 or 4 points at least to average the variations in the measured values.



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* Cone index numbers (qc)

A cone index number is measured by means of a cone penetrometer in a cone penetration test.

A rod with a cone at the tip is pushed into the soil by hand.

The pressure required to advance the cone at a slow constant rate is known as the penetration resistance.

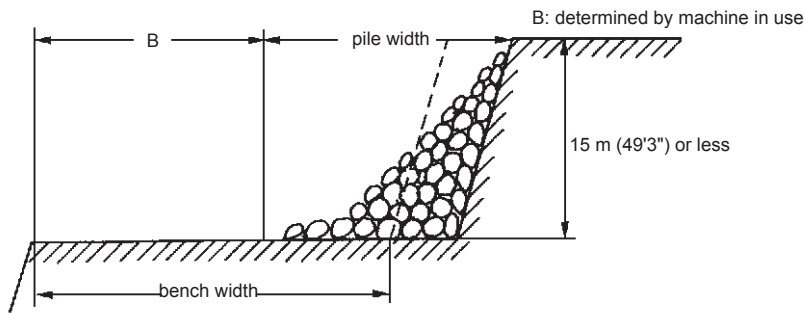
The penetration resistance is read out on the dial gauge.

Thereby, the shearing strength of soil can be estimated.

Then, a cone index number can be obtained by referring the estimated shearing strength to the conversion table attached to the meter.

1. Blasting and bench width

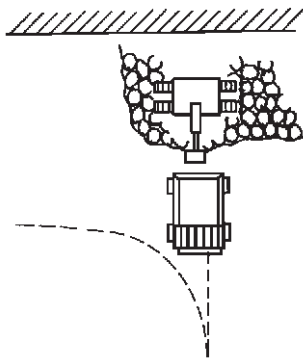
Minimum bench width should be at least twice the cutting face height.



2. Machine and bench width

2.1 Excavator loading to the dump truck

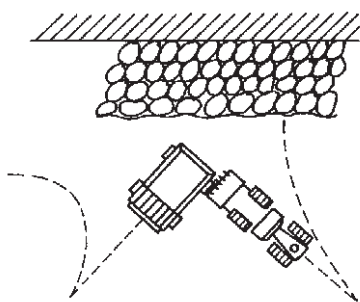
Bench width must be at least three times the dump truck's turning radius.



Model	Min. turning radius m (ft.in)	Bench width m (ft.in)
HD255	7 (23')	21 (68'11")
HD325	7.2 (23'7")	22 (72'2")
HD405	7.2 (23'7")	22 (72'2")
HD465	8.5 (27'11")	27 (88'7")
HD605	8.5 (27'11")	27 (88'7")
HD785	9.9 (32'6")	30 (98'5")
HD1500	12.2 (40')	36 (118'1")
730E	14.0 (45'11")	42 (137'10")
830E	14.2 (46'7")	43 (141'1")
930E	12.36 (40'7")	37 (121'5")

2.2 Wheel loader loading to the dump truck

Bench width must be at least three times the wheeled loader's length.



Model	Wheel loader length m (ft.in)	Bench width m (ft.in)
WA500	9.4 (30'10")	29 (95'2")
WA600	11.0 (36'1")	33 (108'3")
WA700	12.5 (41')	38 (124'8")
WA800	13.7 (44'11")	42 (137'10")
WA900	14.3 (46'11")	42 (137'10")
WA1200	18.2 (59'9")	55 (180'5")

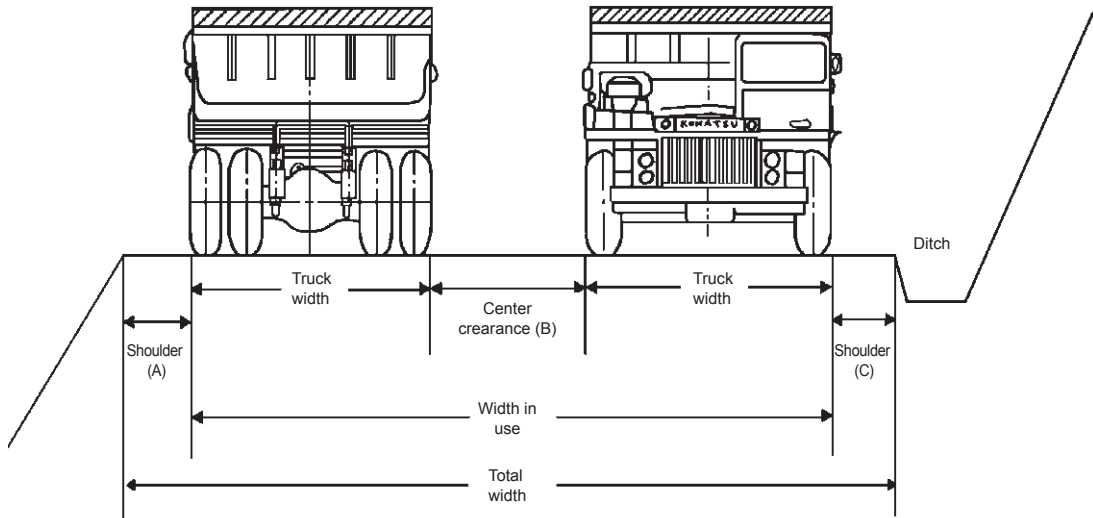
3. Haul road planning

3.1 Dump truck width and haul road size

The width dump truck haul road must have sufficient room to accommodate the model of dump truck planned for use on the site.

In order to accommodate one lane in each direction, with trucks going 30 km/h (18.6 MPH), the haul road must be at least four times the truck width

Dump truck width and haul road size



Model	Speed km/h (MPH)	Center clearance (B) m (ft.in)	Downhill shoulder (A) m (ft.in)	Uphill shoulder (C) m (ft.in)	Total road width m (ft.in)
HD255-5	20 (12.4)	2.0 (6'7")	2.0 (6'7")	1.0 (3'3")	11.4 (37'5")
Truck width	30 (18.6)	2.5 (8'2")	2.0 (6'7")	1.5 (4'11")	12.4 (40'8")
3.2 m (10'6")	40 (24.9)	3.0 (9'10")	2.0 (6'7")	1.5 (4'11")	12.9 (42'4")
HD325-6	20 (12.4)	3.0 (9'10")	2.0 (6'7")	1.5 (4'11")	13.8 (45'3")
Truck width	30 (18.6)	3.0 (9'10")	3.0 (9'10")	1.5 (4'11")	14.9 (48'11")
3.7 m (12'2")	40 (24.9)	3.5 (11'6")	3.0 (9'10")	2.0 (6'7")	15.9 (52'2")
HD405-6	20 (12.4)	3.0 (9'10")	2.0 (6'7")	1.5 (4'11")	13.8 (45'3")
Truck width	30 (18.6)	3.0 (9'10")	3.0 (9'10")	1.5 (4'11")	14.9 (48'11")
3.7 m (12'2")	40 (24.9)	3.5 (11'6")	3.0 (9'10")	2.0 (6'7")	15.9 (52'2")
HD465-7	20 (12.4)	3.0 (9'10")	3.0 (9'10")	1.5 (4'11")	15.9 (52'2")
Truck width	30 (18.6)	3.5 (11'6")	3.0 (9'10")	2.0 (6'7")	16.9 (55'5")
4.2 m (13'9")	40 (24.9)	3.5 (11'6")	3.5 (11'6")	2.5 (8'2")	17.9 (58'9")
HD605-7	20 (12.4)	3.0 (9'10")	3.0 (9'10")	1.5 (4'11")	15.9 (52'2")
Truck width	30 (18.6)	3.5 (11'6")	3.0 (9'10")	2.0 (6'7")	16.9 (55'5")
4.2 m (13'9")	40 (24.9)	3.5 (11'6")	3.5 (11'6")	2.5 (8'2")	17.9 (58'9")
HD785-5	20 (12.4)	3.5 (11'6")	3.5 (11'6")	2.5 (4'11")	20.9 (68'7")
Truck width	30 (18.6)	4.0 (13'1")	4.5 (14'9")	2.5 (6'7")	22.4 (73'6")
5.7 m (18'8")	40 (24.9)	4.5 (14'9")	4.5 (14'9")	3.0 (8'2")	23.4 (76'9")
HD1500	20 (12.4)	3.5 (11'6")	3.5 (11'6")	2.5 (8'2")	22.7 (74'6")
Truck width	30 (18.6)	4.0 (13'1")	4.5 (14'9")	2.5 (8'2")	24.2 (79'5")
6.62 m (21'9")	40 (24.9)	4.5 (14'9")	4.5 (14'9")	3.0 (9'10")	25.2 (82'8")

Model	Speed km/h (MPH)	Center clearance (B) m (ft.in)	Downhill shoulder (A) m (ft.in)	Uphill shoulder (C) m (ft.in)	Total road width m (ft.in)
730E	20 (12.4)	3.5 (11'6")	4.0 (13'1")	2.5 (8'2")	24.5 (80'5")
Truck width	30 (18.6)	4.0 (13'1")	5.0 (16'5")	2.5 (8'2")	26.0 (85'4")
7.25 m (23'9")	40 (24.9)	4.5 (14'9")	5.0 (16'5")	3.0 (9'10")	27.0 (88'7")
830E	20 (12.4)	3.5 (11'6")	4.0 (13'1")	2.5 (8'2")	24.5 (80'5")
Truck width	30 (18.6)	4.0 (13'1")	5.0 (16'5")	2.5 (8'2")	26.0 (85'4")
7.26 m (23'10")	40 (24.9)	4.5 (14'9")	5.0 (16'5")	3.0 (9'10")	27.0 (88'7")
930E-3	20 (12.4)	4.0 (13'1")	4.0 (13'1")	2.5 (8'2")	27.9 (91'6")
Truck width	30 (18.6)	4.5 (14'9")	5.0 (16'5")	2.5 (8'2")	29.4 (96'6")
8.69 m (28'6")	40 (24.9)	5.0 (16'5")	5.0 (16'5")	3.0 (9'10")	30.4 (99'9")

3.2 Haul road grade

For best fuel efficiency and safety against slippage, etc, the road's grade should ideally be under 10%.

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SECTION **15**

OWNING & OPERATING COSTS

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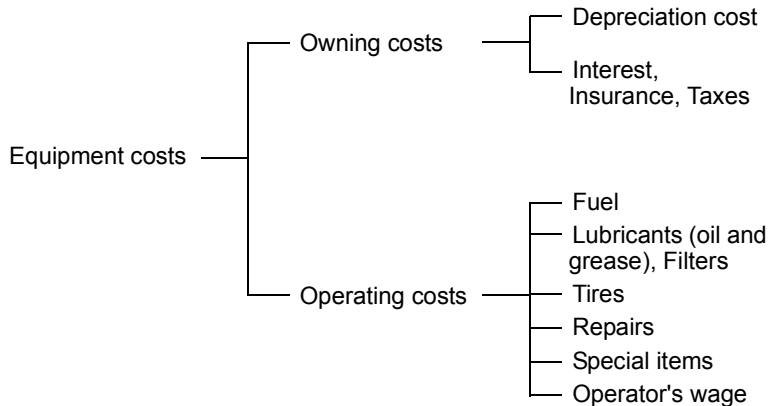
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ESTIMATION OF THE OWNING & OPERATING COSTS

Along with the trend for mechanization adopted for economical and satisfactory job accomplishment, equipment costs now occupy a large proportion of the overall construction cost. Therefore, the estimation of the equipment costs has become more important. Success or failure in a contract for a construction job is virtually dependent on the estimates of the equipment costs. In other words, careful consideration of the equipment costs is of prime importance, if a contractor is to fulfill the contract at a profit. Unless estimates are made properly, there will occur cases where a construction job cannot be accomplished at a profit.

There are two types of equipment costs: owning costs and operating costs. Owning costs refer to the costs incurred even if the machine is not working. They include depreciation, interest, taxes and insurance. Operating costs are the costs incurred in actually operating the machine. They include costs for repair, fuel, lubricants, tires, special items (consumable parts such as ground engaging tool) and operator's wages.



We would like to explain **one method** of estimating the owning and operating costs of construction equipment in this handbook.

The owning and operating costs of construction equipment can vary widely because they are influenced by many factors: the type of work the machine does, local prices of material, labor, fuel and lubricants, interest rates, etc. Accordingly it is very dangerous to estimate the costs relying entirely on an established form of calculation method.

In this Manual, however, we will make approximate estimates of general application of the equipment costs. Accordingly, if users want more accurate values of the costs, we hope that they will make estimates by taking into account their own reference data and territorial or environmental conditions.

Depreciation period, and repair and periodic maintenance cost are especially affected by specific application and type of work. Therefore, if you need those data, we suggest that you contact the local Komatsu distributor with necessary information.

The equipment owning and operating costs are calculated in units of \$/m³, \$/m² or \$/h, etc., depending on the type of construction work. The costs in \$/m³ or \$/m² are obtained by dividing the cost in \$/h by production (m³/h) and thus, it is recommended that the owning and operating costs be calculated in the unit of \$/h as generally accepted.

1. OWNING COST

The equipment owning cost is the expense required, as a matter of course, for the purchase and possession of the equipment as a property of its owner and consists of the following two items.

- (1) Depreciation**
- (2) Interest, insurance and taxes**

1-1. DEPRECIATION

In general, depreciation is a tax term referring to the legally permitted decline in value from the original purchase price of equipment, and is an assessable property (expressed in units of years). Depreciation referred to herein is a business practice for conserving the investment in the form of purchased equipment, in other words, for making preparations in a systematic manner for the fund necessary for replacing the existing equipment with new or any other equipment.

$$\text{Depreciation} = \frac{\text{Net Depreciation Value}}{\text{Depreciation Period in Hours}}$$

Net depreciation value means Original purchase price minus Resale or Trade-in price.

The depreciation period varies considerably according to the equipment operating conditions. It is also affected by the speed of fund collection desired by the user, environmental and economic conditions in its applied territory. Furthermore, it goes without saying that maintenance of equipment is a significant

factor in determining the economical life of the equipment. Proper maintenance will extend the life of equipment. On the other hand, poor or improper maintenance will shorten the life. There is the legal depreciation period in each country for tax purpose. However, in the business, it is rather usual to employ the equipment owning period as the depreciation period. The equipment owning period is strongly affected by the economical life of the equipment (Years or hours for which the equipment can be used gainfully).

When you need to estimate the value of the economical life for a specific product, please consult your distributor or Komatsu representative. They can suggest you with the appropriate values from their experience and the data they have. (The former handbook contained the depreciation period, but they are removed because the straight numbers sometimes mislead the readers.)

The net depreciation value is the net amount to be considered in the depreciation of equipment.

In case of crawler-type tractors, their purchase prices are used to calculate the net depreciation value. In wheel type equipment, their tire values should be deducted from the purchase prices, because, unlike the undercarriages of crawler-type equipment, tires wear out earlier than the equipment chassis proper, and tires are not cheap. Further, there is a possibility of tires becoming unserviceable suddenly in unexpected accidents. Hence, it is necessary in tire depreciation to include their degrees of wear into the operating cost.

RESALE OR TRADE-IN VALUES

At the time of resale or trade-in, construction machines have a value.

Some users will hope that in terms of book value the machine will depreciate completely within the depreciation period. Other users will hope that the residual value expressed as resale value or trade-in value will be left. For these users the resale value or trade-in value is an important factor in reducing the capital invested. This value is also a factor when deciding to purchase a new machine.

The resale value or trade-in value changes greatly according to the territory. Therefore the conditions in that territory must be considered when determining these values. However, major factors in deciding resale value or trade-in value are the hours of operation, nature of work and working environment. The real resale value or trade-in value cannot be decided simply, but when a realistic value is decided it is subtracted from the purchase price to give the Net Depreciation value. It is then possible to obtain the depreciation from the Net Depreciation Value.

1-2.INTEREST, INSURANCE AND TAXES

Whether or not purchased equipment is actually in operation, its users must pay interest, insurance and taxes. Interest refers to the interest on the investment, when the investment is covered by the user's own fund or to the interest on the debt, when the investment is covered by a debt. In either case, the interest will be an equal amount.

Insurance and taxes are imposed on the annual residual values of the equipment, which requires knowledge of depreciation as prescribed by the tax law. The depreciation rate or the depreciation period (whether it is a fixed amount or a fixed rate) vary according to the country. For the correct values of insurance and taxes on the residual value in a country, the calculation formulas established in that country must be used.

Interest, insurance and taxes are imposed on the residual value that is the difference between the purchase price and the depreciated amount. This residual value decreases every year. However, when the user calculates owning & operating costs, it is convenient to consider interest, insurance and taxes as a constant amount paid out each year. For this reason, the machine will be considered here to depreciate by a constant annual amount. A calculation is made of the average value of the residual value at the beginning of each year within the depreciation period, and interest, insurance and taxes are imposed on this value. By dividing this value by the number of hours the user expects to operate the machine in one year, the hourly value can be calculated.

This can be calculated by using the following formula.

$$\text{Interest, insurance, tax} = \frac{\text{Factor} \times \text{Delivered price} \times \text{Annual rates}}{\text{Annual use in hours}}$$

The annual rates are the total of those of interest, insurance and tax.

The factor can be obtained by using Table 1 or can be calculated by the following formula.

$$\text{Factor} = 1 - \frac{(n - 1)(1 - r)}{2n}$$

where **n**: Depreciation period

$$r: \text{Trade-in value rate} = \frac{\text{Machine worth at trade-in or resale time}}{\text{Delivered price}}$$

(Example)

Delivered price: \$100,000

Annual rates: 15%

Annual use in hours: 2,000 hrs

Trade-in value: \$25,000

Depreciation period (n) : 4 years

Solution

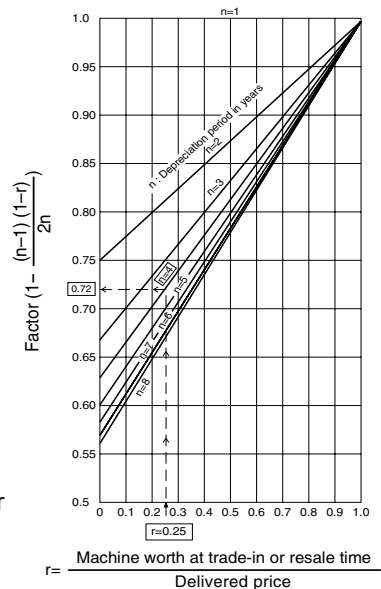
$$r = \frac{25,000}{100,000} = 0.25$$

$$\text{Factor} = 1 - \frac{(4 - 1)(1 - 0.25)}{2 \times 4} = 0.72$$

When obtaining the factor by using Table 1.
 Enter $r = 0.25$ in Table 1
 Move vertically to $n = 4$ line and horizontally to left axis.
 Applicable factor is 0.72

$$\text{Interest, insurance, tax} = \frac{0.72 \times \$100,000 \times 0.15}{2,000} = \$3.59$$

Table 1 Factor of Interest, Insurance, Taxes



2. OPERATING COST

The equipment operating costs are proportional to the time that the equipment works. Items considered in this category are as follows:

- (1) Fuel
- (2) Lubricants (oil and grease), Filters and Periodic Maintenance Labor
- (3) Tires
- (4) Repair Cost
- (5) Special items (Ground engaging tools)
- (6) Operator's wage

2-1. FUEL

More definite fuel consumption data should be measured in the field.

It is possible, however, to anticipate the actual or approximate consumption values according to the actual operating conditions without measuring the consumption. **Table 3** gives the hourly fuel consumption values for KOMATSU construction machines. In this table, the average values are given, provided that the job conditions are classified into three different ranges of application. If a user has data on certain operating conditions, more correct or realistic values will be obtained by applying these data in similar operating conditions, provided that the equipment is limited to the same type as that used in the user's data.

To estimate hourly fuel cost, select the job condition based on application and find hourly fuel consumption.

$$\text{Hourly fuel cost} = \text{Hourly fuel consumption} \times \text{Local unit price of fuel}$$

2-2. LUBRICANTS (OIL AND GREASE), FILTERS AND PERIODIC MAINTENANCE LABOR

It is possible to measure the consumption of lubricants and grease in the same manner as the fuel consumption. The consumption values of lubricants and grease are also obtained by calculation on the basis of lubrication intervals, but they are affected greatly by the type of machines and their operating conditions, which makes it difficult to specify the consumption suited for various machines and their operating conditions. **Table 4** gives the data based on the oil use per hour for your reference.

$$\text{Hourly Lubricant Consumption} = \text{Oil replacement amount (liter)} \div \text{Oil change interval (hour)}$$

Prices of lubricants vary in countries or areas and, therefore, the local price (price in that country or area) should be used.

In KOMATSU construction machines, filter replacement intervals are standardized for each machine model. Thus, the cost of filter can be calculated from the local price of filter and the replacement interval. The hourly filter cost is the total of the hourly costs for each type of filter.

(Example)

$$\text{Hourly cost of filter A} = \frac{\text{Number of filters A} \times \text{Local price of filter}}{A}$$

The same method is used for calculating the hourly filter cost of other filters. For quick estimation, hourly filter costs are about 50% of hourly lubricant costs. If they are used in the dusty terrain, the calculated value should be multiplied by a proper factor.

If necessary, we suggest you to contact the local Komatsu distributor with necessary information to get the assistance for estimating them.

2-3. TIRES

As has been described in Depreciation, tires are in the category of consumable parts and tires are generally expensive. Therefore, it is better to include the tire cost as an individual item in the operating costs. Tire cost is calculated by the following formula.

$$\text{Hourly tire cost} = \frac{\text{Tire price}}{\text{Estimated life}}$$

As tire prices vary in each country or area, the price of tires actually bought by a user should be applied. It is difficult to indicate definitely the tire life, because the tire life is affected by many factors. However, the general measurements for the life expectancy of tires can be indicated on the basis of past experience and data obtained from the tire manufacturers. Refer to **Table 4**.

In this table, the approximate life values are given for three different types of conditions. The optimum value for a certain ground condition is one of those obtained by a user in experience on similar ground conditions. When recapped tires are to be used, their prices and life expectancy must be changed correspondingly.

2-4. REPAIR COST

Components or parts of a machine will in due course wear and sometimes fail. To keep a machine in a properly maintained condition, these components or parts must be replaced. It is natural for the repair cost of a machine to start from a small amount and gradually increase with time as the machine is operated. The repair cost of a machine can be estimated actually as described above with respect to the machine operating time. However, in general, repair cost is considered as an average of total repair costs throughout the service life of a machine. In other words, it is based on the concept that part of repair cost to be paid later should be laid aside in advance.

Repair costs are more greatly affected by the machine operating conditions than by any other cost items. It depends greatly on the job, operating techniques or operator's skill, proper maintenance, etc. In a specific job application, calculation for repair cost should be made on the basis of the data accumulated in the past. If such data are not available, the calculation should be made with due consideration of experience.

Repair Cost are affected by specific application and type of work as well. Therefore, we suggest that you contact the local Komatsu distributor with necessary information for the repair cost estimation.

2-5. SPECIAL ITEMS (GROUND ENGAGING TOOLS)

In the objects of repair, the repair costs include the machine and its attachments. Some parts of a machine wear faster than others. These parts are the ground engaging tools and not included in the category of repair but in a group of special items. Life expectancy of ripper points, ripper shanks and shank protector is given in **Table 5**.

2-6. OPERATOR WAGES

Operator hourly wages vary according to the country and area. Thus, the wages actually paid by users should be used.

3. EXAMPLE OF CALCULATION

PC200 is delivered for \$92,811 at a job site.

Applications:

Mass excavation or trenching where machine digs all the time in natural bed clay soils. Some traveling and steady, full throttle operation.

Net Depreciation Value

Since the machine is a crawler-type, tires are not involved. This owner knows from experience that at trade-in time, the machine will be worth approximately 10% of its delivered price 4 years from now.

Trade-in value is \$9,281

Net depreciation value = \$92,811 – \$9,281 = \$83,530

OWNING COST

Depreciation:

Putting 10,000 hours as the example depreciation period.

$$\text{Depreciation} = \frac{\$83,530}{10,000} = \$8.35$$

Interest, Insurance, Taxes

Owner plans to use machine during 4 years and about 2,500 hours per year.

$$\text{Trade-in value rate}(r) = \frac{\$9,281}{\$92,811} = 0.1$$

Calculate the Factor according to depreciation period and trade-in value rate, which is 0.66.

Enter the annual rates of interest, insurance and taxes and total them, which is 0.14 as an example.

$$\text{Interest, insurance, taxes cost} = \frac{0.66 \times \$92,811 \times 0.14}{2,500} = \$3.43$$

Add up the depreciation cost and interest, insurance, taxes cost for total owning.

OPERATING COST

Fuel: See Table 3.

The intended application is in medium range. The estimated fuel consumption from table is 12.5 liter/hour.

Cost of fuel in this area is \$0.2/liter.

$$\text{Consumption} \times \text{Unit cost} = 12.5 \text{ liter/hr} \times \$0.2/\text{liter} = \$2.5$$

Lubricants, Filters and Periodic Maintenance labor:

Use local Komatsu distributor's estimation. (For calculation example: use \$0.39)

Tires are not involved, since the machine is crawler type.

Repair Cost

Use local Komatsu distributor's estimation. (For calculation example: use \$3.30)

Repairs = \$3.30

Since the machine does not have fast wear parts like ripper points of bulldozer or cutting edge of motor grader, special item can be disregarded.

Operator hourly wage in this area is \$16.00.

Add up the fuel cost, lubricant grease filter costs, repair cost and operator's hourly wage for operating cost.

TOTAL HOURLY OWNING AND OPERATING COSTS

Add up the total owning cost and total operating cost.

Estimation of The Owning & Operating Costs

OWNING & OPERATING COSTS

EXAMPLE

Estimated Owning and Operating Costs :

Machine & Model :	Hydraulic Excavator PC200	
Attachments :	Standard bucket 0.8m ³ (SAE heaped)	
Delivered Price (including attachments) :	_____	\$ 92,811
Less Tire Price :		
Front :	_____	
Rear :	_____	
Total Tire Price :	_____	
Delivered Price Less Tire :	_____	
Trade-in Value or Resale Value (optional) :	_____	\$ 9,281
Net Depreciation Value :	_____	\$ 83,530

OWNING COSTS

Depreciation :

$$\frac{\text{Net Depreciation Value}}{\text{Depreciation Period in Hours}} = \frac{\$ 83,530}{10,000} = \underline{\hspace{2cm}} \quad \$ 8.35$$

Interest, Insurance, Taxes :

Depreciation Period : 4 Years

$$\text{Trade-in value rate (r)} = \frac{\text{Trade-in Value or Resale Value}}{\text{Delivered Price}} = \frac{9,281}{92,811} = 0.1$$

$$\text{Factor} = 1 - \frac{(n - 1)(1 - r)}{2n} = 1 - \frac{(4 - 1)(1 - 0.1)}{2 \times 4} = 0.66$$

Annual Rates : (Int. % + Ins. % + Taxes % = %) ÷ 100 = 0.14

Approximate Annual Use : _____ Hours

$$\frac{\text{Factor} \times \text{Delivered Price} \times \text{Annual Rates}}{\text{Annual Use in Hours}} = \frac{0.66 \times 92,811 \times 0.14}{2,500} = \underline{\hspace{2cm}} \quad \$ 3.43$$

Total Owning Costs _____ \$ 11.78

OPERATING COSTS

	Consumption	Unit cost		
Fuel :	12.5 liter / hr	\$ 0.2 / liter	x	= \$ 2.50

Lubricants, Filters and Periodic Maintenance Labor
(Ask your local Komatsu distributor) example = \$ 0.39

Tires

$$\frac{\text{Tire Price}}{\text{Estimated Life}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Repair Cost
(Ask your local Komatsu distributor) = \$ 3.30

Special items _____

Operator's Hourly Wage _____ \$ 16.00

Total Operating Costs : _____ \$ 22.19

TOTAL HOURLY OWNING AND OPERATING COSTS

_____ \$ 33.97

Estimation of The Owning & Operating Costs

OWNING & OPERATING COSTS

BLANK SHEET

Estimated Owning and Operating Costs :

Machine & Model : _____
 Attachments : _____
 Delivered Price (including attachments) : _____
 Less Tire Price :
 Front : _____
 Rear : _____
 Total Tire Price : _____
 Delivered Price Less Tire : _____
 Trade-in Value or Resale Value (optional) : _____
 Net Depreciation Value : _____

OWNING COSTS

Depreciation :

$$\frac{\text{Net Depreciation Value}}{\text{Depreciation Period in Hours}} = \text{_____} = \text{_____}$$

Interest, Insurance, Taxes :
 Depreciation Period : _____ Years
 Trade-in value rate (r) = $\frac{\text{Trade-in Value or Resale Value}}{\text{Delivered Price}} = \text{_____} =$

Factor = $1 - \frac{(n - 1)(1 - r)}{2n} = \text{_____}$

Annual Rates : (Int. _____ % + Ins. _____ % + Taxes _____ % = _____ %) + 100 =
 Approximate Annual Use : _____ Hours

$$\frac{\text{Factor} \times \text{Delivered Price} \times \text{Annual Rates}}{\text{Annual Use in Hours}} = \text{_____} \times \text{_____} = \text{_____}$$

Total Owning Costs _____

OPERATING COSTS

	Consumption	Unit cost
Fuel : _____	x	_____ = _____
Lubricants, Filters and Periodic Maintenance Labor (Ask your local Komatsu distributor)		_____
Tires $\frac{\text{Tire Price}}{\text{Estimated Life}} = \text{_____} =$		_____
Repair Cost (Ask your local Komatsu distributor)		_____
Special items _____		_____
Operator's Hourly Wage _____		_____
Total Operating Costs : _____		

TOTAL HOURLY OWNING AND OPERATING COSTS

Estimation of The Owinging & Operating Costs

OWNING & OPERATING COSTS

The following tables show application and operating conditions in three categories. Condition 1 is the light duty for machine, conditions 2 is the average and Condition 3 is the severe duty. It is the guide line and can be used with fuel and tire life tables to assist to select fuel and tire costs.

Table 2-1 Application and Operating Conditions

	Condition 1	Condition 2	Condition 3
Crawler type tractors	<ul style="list-style-type: none"> • Pulling scrapers, agricultural implements. • Spreading work. 	<ul style="list-style-type: none"> • Digging, dozing, ripping of soft rock, clay, most material. • Scraper pushing • Skidding • Land clearing 	<ul style="list-style-type: none"> • Digging, dozing, ripping of hard rock.
Dozer shovels	<ul style="list-style-type: none"> • Loading of light material from stock pile with substantial Idle time. 	<ul style="list-style-type: none"> • Continuous loading from stock pile. • Light excavation and loading. 	<ul style="list-style-type: none"> • Bank excavation and loading. • Loading of blasted material.
Pipelayers	<ul style="list-style-type: none"> • Operation on stable ground, a little incline of machine. 	<ul style="list-style-type: none"> • Mainly pipe laying operation. 	<ul style="list-style-type: none"> • Operation on poor ground, or on hard rock.
Hydraulic excavators	<ul style="list-style-type: none"> • Slope finishing, light material digging, and other light-duty operation. 	<ul style="list-style-type: none"> • Mainly excavating and loading. • Breaker operation. 	<ul style="list-style-type: none"> • Excavation of hard bank.

Table 2-2 Application and Operating Conditions

	Condition 1	Condition 2	Condition 3
Rigid dump trucks	<ul style="list-style-type: none"> • Level or favorable well-maintained haul road. 	<ul style="list-style-type: none"> • Various operation at mine, quarry and construction site. 	<ul style="list-style-type: none"> • Remarkable overloading • Steep or rough (poor) haul roads. • High load factor. (See Fuel Consumption in this section)
Articulated dump trucks	<ul style="list-style-type: none"> • Level or favorable well-maintained haul road. 	<ul style="list-style-type: none"> • Steep, rough or muddy haul condition 	<ul style="list-style-type: none"> • Remarkable overloading • Remarkable steep, rough or muddy haul road
Motor graders	<ul style="list-style-type: none"> • Finishing and other light-duty operations. 	<ul style="list-style-type: none"> • Mainly road maintenance, repair and construction. • Snow removal 	<ul style="list-style-type: none"> • Maintenance or repair of hard surface road, remarkable scarifying and or ripping operation.
Compactors	<ul style="list-style-type: none"> • Spreading and compaction of sandy soil. 	<ul style="list-style-type: none"> • Spreading and compaction of various types of soil with some rocks. • Break-down of comparatively small wooden items. 	<ul style="list-style-type: none"> • Spreading and compaction of rocky material, high impact conditions. • Break-down of lumber, electrical equipment, industrial products.
Wheel loaders	<ul style="list-style-type: none"> • Loading of light material from stock pile • Operation with substantial truck waiting time. 	<ul style="list-style-type: none"> • Continuous loading from stock pile • Light-duty excavation and loading. 	<ul style="list-style-type: none"> • Bank excavation and loading. • Loading of blasted rock.
Wheel dozers	<ul style="list-style-type: none"> • Light surface finishing • Spreading light material 	<ul style="list-style-type: none"> • Average surface finishing • Digging and dozing soft earth 	<ul style="list-style-type: none"> • Digging and dozing hard earth

Table 3 Hourly Fuel Consumption

**Construction
(1) Bulldozers**

Machine	Range Amount	Low		Medium		High	
		U.S. Gal/hr.	ltr./hr.	U.S. Gal/hr.	ltr./hr.	U.S. Gal/hr.	ltr./hr.
D21A, P-8E0		0.4 ~ 0.85	1.6 ~ 3.2	0.85 ~ 1.3	3.2 ~ 4.8	1.3 ~ 1.7	4.8 ~ 6.4
D31EX, PX-22		0.9 ~ 1.8	3.3 ~ 6.7	1.8 ~ 2.6	6.7 ~ 10.0	2.6 ~ 3.5	10.0 ~ 13.3
D37EX, PX-22		1.0 ~ 2.0	3.8 ~ 7.6	2.0 ~ 3.0	7.6 ~ 11.4	3.0 ~ 4.0	11.4 ~ 15.1
D39EX, PX-22		1.2 ~ 2.4	4.5 ~ 8.9	2.4 ~ 3.5	8.9 ~ 13.4	3.5 ~ 4.7	13.4 ~ 17.9
D51EX, PX-22		1.4 ~ 2.8	5.2 ~ 10.5	2.8 ~ 4.1	10.5 ~ 15.7	4.1 ~ 5.5	15.7 ~ 21.0
D61EX, PX-15E0		1.7 ~ 3.4	6.4 ~ 12.9	3.4 ~ 5.1	12.9 ~ 19.3	5.1 ~ 6.8	19.3 ~ 25.7
D65E, P-12		2.1 ~ 4.1	7.8 ~ 15.6	4.1 ~ 6.2	15.6 ~ 23.4	6.2 ~ 8.2	23.4 ~ 31.1
D65EX, PX. WX-16		2.0 ~ 4.0	7.6 ~ 15.2	4.0 ~ 6.0	15.2 ~ 22.8	6.0 ~ 8.1	22.8 ~ 30.5
D85ESS-2A		2.2 ~ 4.4	8.4 ~ 16.8	4.4 ~ 6.7	16.8 ~ 25.2	6.7 ~ 8.9	25.2 ~ 33.6
D85EX, PX-15E0		2.5 ~ 5.1	9.6 ~ 19.2	5.1 ~ 7.6	19.2 ~ 28.8	7.6 ~ 10.1	28.8 ~ 38.4
D85EX, PX-15R		2.5 ~ 4.9	9.4 ~ 18.7	4.9 ~ 7.4	18.7 ~ 28.1	7.4 ~ 9.9	28.1 ~ 37.5
D155A-5		3.0 ~ 5.9	11.3 ~ 22.5	5.9 ~ 8.9	22.5 ~ 33.8	8.9 ~ 11.9	33.8 ~ 45.1
D155A-6		3.3 ~ 6.6	12.5 ~ 25.0	6.6 ~ 9.9	25.0 ~ 37.5	9.9 ~ 13.2	37.5 ~ 50.0
D155AX-6		3.0 ~ 6.0	11.4 ~ 22.8	6.0 ~ 9.0	22.8 ~ 34.2	9.0 ~ 12.0	34.2 ~ 45.6
D275A-5		7.7 ~ 10.9	29.2 ~ 41.3	10.9 ~ 14.1	41.3 ~ 53.5	14.1 ~ 17.4	53.5 ~ 65.7
D275A, AX-5E0		7.7 ~ 10.9	29.2 ~ 41.3	10.9 ~ 14.1	41.3 ~ 53.5	14.1 ~ 17.4	53.5 ~ 65.7
D275A-5R		7.6 ~ 10.8	28.8 ~ 40.8	10.8 ~ 13.9	40.8 ~ 52.8	13.9 ~ 17.1	52.8 ~ 64.8
D375A-5		10.6 ~ 15.0	40.2 ~ 56.9	15.0 ~ 19.5	56.9 ~ 73.7	19.5 ~ 23.9	73.7 ~ 90.4
D375A-6		11.3 ~ 16.0	42.8 ~ 60.6	16.0 ~ 20.7	60.6 ~ 78.5	20.7 ~ 25.4	78.5 ~ 96.3
D375A-5R		9.3 ~ 13.2	35.3 ~ 50.0	13.2 ~ 17.1	50.0 ~ 64.7	17.1 ~ 21.0	64.7 ~ 79.4
D375A-6R		10.9 ~ 15.4	41.3 ~ 58.4	15.4 ~ 20.0	58.4 ~ 75.6	20.0 ~ 24.5	75.0 ~ 92.8
D475A-5E0, -5SDE0		15.5 ~ 21.9	58.5 ~ 82.9	21.9 ~ 28.3	82.9 ~ 107.3	28.3 ~ 34.8	107.3 ~ 131.7
D575A-3		20.2 ~ 28.7	76.6 ~ 108.5	28.7 ~ 37.1	108.5 ~ 140.4	37.1 ~ 45.5	140.4 ~ 172.3
D575A-3SD		22.0 ~ 31.2	83.4 ~ 118.1	31.2 ~ 40.4	118.1 ~ 152.9	40.4 ~ 49.6	152.9 ~ 187.6

Low: Work where machine spend most of daily working hours idling or traveling with no load.

Medium: Average earth moving, scraper hauling, easy pushing
Object materials; Not hard to dig

High: Ripping, heavy pushing
Continuous use with engine at full throttle
Object materials; Blasted rock

(2) Pipelayers

Machine	Range Amount	Low		Medium		High	
		U.S. Gal/hr.	ltr./hr.	U.S. Gal/hr.	ltr./hr.	U.S. Gal/hr.	ltr./hr.
D85C-21		2.4 ~ 3.2	9 ~ 12	3.4 ~ 4.2	13 ~ 16	4.2 ~ 5.0	16 ~ 19
D155C-1		3.4 ~ 4.5	13 ~ 17	5.3 ~ 6.3	20 ~ 24	6.9 ~ 7.9	26 ~ 30
D355C-3		4.2 ~ 5.3	16 ~ 20	5.8 ~ 6.9	22 ~ 26	7.4 ~ 8.5	28 ~ 32

Construction

(3) Hydraulic excavators

Machine	Range Amount	Low		Medium		High	
		U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr
PC20MR-3		0.21 ~ 0.29	1.1 ~ 1.6	0.29 ~ 0.45	1.6 ~ 2.3	0.45 ~ 0.77	2.3 ~ 3.9
PC27MR-3		0.34 ~ 0.48	1.3 ~ 1.8	0.48 ~ 0.71	1.8 ~ 2.7	0.71 ~ 1.19	2.7 ~ 4.5
PC30MR-3		0.34 ~ 0.50	1.3 ~ 1.9	0.50 ~ 0.74	1.9 ~ 2.8	0.74 ~ 1.24	2.8 ~ 4.7
PC35MR-3		0.37 ~ 0.53	1.4 ~ 2.0	0.53 ~ 0.79	2.0 ~ 3.0	0.79 ~ 1.32	3.0 ~ 5.0
PC45MR-3		0.50 ~ 0.71	1.9 ~ 2.7	0.71 ~ 1.06	2.7 ~ 4.0	1.06 ~ 1.74	4.0 ~ 6.6
PC55MR-3		0.50 ~ 0.71	1.9 ~ 2.7	0.71 ~ 1.06	2.7 ~ 4.0	1.06 ~ 1.74	4.0 ~ 6.6
PC78US-8, PC78UU-8		0.63 ~ 0.92	2.4 ~ 3.5	0.92 ~ 1.4	3.5 ~ 5.2	1.4 ~ 2.3	5.2 ~ 8.7
PC88MR-8		0.77 ~ 1.1	2.9 ~ 4.1	1.1 ~ 1.6	4.1 ~ 6.1	1.6 ~ 2.7	6.1 ~ 10.2
PC130-8		1.1 ~ 1.5	4.1 ~ 5.8	1.5 ~ 2.3	5.8 ~ 8.7	2.3 ~ 3.8	8.7 ~ 14.5
PC138US-8		1.1 ~ 1.5	4.1 ~ 5.8	1.5 ~ 2.3	5.8 ~ 8.7	2.3 ~ 3.8	8.7 ~ 14.5
PC160LC-7E0		1.4 ~ 1.9	5.1 ~ 7.3	1.9 ~ 2.9	7.3 ~ 11.0	2.9 ~ 4.8	11.0 ~ 18.3
PC160LC-8		1.4 ~ 1.9	5.1 ~ 7.3	1.9 ~ 2.9	7.3 ~ 11.0	2.9 ~ 4.8	11.0 ~ 18.3
PC200, LC-7		1.6 ~ 2.4	6.2 ~ 8.9	2.4 ~ 3.5	8.9 ~ 13.4	3.5 ~ 5.9	13.4 ~ 22.3
PC200, LC-8		1.6 ~ 2.2	5.9 ~ 8.5	2.2 ~ 3.4	8.5 ~ 12.7	3.4 ~ 5.6	12.7 ~ 21.2
PC220, LC-7		2.0 ~ 2.9	7.5 ~ 10.8	2.9 ~ 4.3	10.8 ~ 16.2	4.3 ~ 7.1	16.2 ~ 26.9
PC220, LC-8		1.9 ~ 2.7	7.1 ~ 10.3	2.7 ~ 4.1	10.3 ~ 15.4	4.1 ~ 6.8	15.4 ~ 25.6
PC228US, USLC-3E0		1.7 ~ 2.4	6.3 ~ 9.0	2.4 ~ 3.6	9.0 ~ 13.5	3.6 ~ 5.9	13.5 ~ 22.5
PC270, LC-7		2.1 ~ 3.1	8.1 ~ 11.6	3.1 ~ 4.6	11.6 ~ 17.4	4.6 ~ 7.7	17.4 ~ 29.0
PC270, LC-8		2.1 ~ 3.1	8.1 ~ 11.6	3.1 ~ 4.6	11.6 ~ 17.4	4.6 ~ 7.6	17.4 ~ 28.9
PC300, LC-7, PC350, LC-7		2.9 ~ 4.1	10.8 ~ 15.4	4.1 ~ 6.1	15.4 ~ 23.1	6.1 ~ 10.2	23.1 ~ 38.5
PC300, LC-8, PC350, LC-8		2.8 ~ 4.0	10.6 ~ 15.1	4.0 ~ 6.0	15.1 ~ 22.7	6.0 ~ 10.0	22.7 ~ 37.9
PC400, LC-7, PC450LC-7		5.1 ~ 6.8	19.3 ~ 25.7	6.8 ~ 8.5	25.7 ~ 32.1	8.5 ~ 12.7	32.1 ~ 48.2
PC400, LC-8, PC450, LC-8		5.1 ~ 6.8	19.3 ~ 25.7	6.8 ~ 8.5	25.7 ~ 32.1	8.5 ~ 12.7	32.1 ~ 48.2
PC400, LC-8R, PC450, LC-8R		5.1 ~ 6.8	19.3 ~ 25.7	6.8 ~ 8.5	25.7 ~ 32.1	8.5 ~ 12.7	32.1 ~ 48.2
PC600, LC-7		6.2 ~ 8.2	23.4 ~ 31.2	8.2 ~ 10.3	31.2 ~ 39.0	10.3 ~ 16.5	39.0 ~ 62.4
PC600, LC-8		6.5 ~ 8.6	24.5 ~ 32.7	8.6 ~ 10.8	32.7 ~ 40.8	10.8 ~ 17.3	40.8 ~ 65.3
PC600, LC-8R		6.5 ~ 8.6	24.5 ~ 32.7	8.6 ~ 10.8	32.7 ~ 40.8	10.8 ~ 17.3	40.8 ~ 65.3
PC750, LC-7, PC800-7		6.7 ~ 9.0	25.6 ~ 34.1	9.0 ~ 11.3	34.1 ~ 42.6	11.3 ~ 18.0	42.6 ~ 68.2
PC800, LC-8, PC850-8		6.7 ~ 8.9	25.2 ~ 33.7	8.9 ~ 11.1	33.7 ~ 42.1	11.1 ~ 17.8	42.1 ~ 67.3
PC800, LC-8, PC850-8R		6.7 ~ 8.9	25.2 ~ 33.7	8.9 ~ 11.1	33.7 ~ 42.1	11.1 ~ 17.8	42.1 ~ 67.3
PC1250, LC, SP-7		9.5 ~ 12.7	36.0 ~ 48.0	12.7 ~ 15.8	48.0 ~ 59.9	15.8 ~ 25.3	59.9 ~ 95.9
PC1250, LC, SP-8		9.4 ~ 12.6	35.7 ~ 47.6	12.6 ~ 15.7	47.6 ~ 59.6	15.7 ~ 25.2	59.6 ~ 95.3
PC1250, SP, SP-8R		9.0 ~ 12.1	34.2 ~ 45.7	12.1 ~ 15.1	45.7 ~ 57.1	15.1 ~ 24.1	57.1 ~ 91.3
PC2000-8		12.6 ~ 16.8	47.7 ~ 63.6	16.8 ~ 21.0	63.6 ~ 79.5	21.0 ~ 33.6	79.5 ~ 127.1

Low: Intermittent work with job efficiency less than 65 %
Material; Easy to excavate

Medium: Digging and loading 65 - 80 % of machine operation hours
Material; Not easy to excavate

High: Work with job efficiency more than 80 %
Direct excavation needed sometimes.

Model	Fuel consumption			
	Easy	Average	Rather difficult	Difficult
PC3000-6	161 (42.5)	172 (45.4)	184 (48.6)	208 (55.0)
PC4000-6	228 (60.2)	244 (64.5)	260 (68.7)	293 (77.4)
PC5000-6	306 (80.8)	328 (86.7)	350 (92.5)	393 (103.8)
PC8000-6	515 (136.1)	552 (145.8)	589 (37.9)	662 (174.9)

Construction

(4) Off-highway dump trucks

Range Machine	Low		Medium		High	
	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr
HD255-5	3.4 ~ 5.0	12.7 ~ 19.0	5.0 ~ 6.7	19.0 ~ 25.4	6.7 ~ 9.2	25.4 ~ 34.9
HD325-6	5.0 ~ 7.5	18.8 ~ 28.3	7.5 ~ 10.0	28.3 ~ 37.7	10.0 ~ 13.7	37.7 ~ 51.8
HD325-7	4.8 ~ 7.2	18.0 ~ 27.1	7.2 ~ 9.9	27.1 ~ 37.4	9.9 ~ 13.6	37.4 ~ 51.5
HD325-7R	4.7 ~ 7.1	17.9 ~ 26.8	7.1 ~ 9.8	26.8 ~ 37.2	9.8 ~ 13.6	37.2 ~ 51.4
HD405-6	5.0 ~ 7.5	18.8 ~ 28.3	7.5 ~ 10.0	28.3 ~ 37.7	10.0 ~ 13.7	37.7 ~ 51.8
HD405-7	4.8 ~ 7.2	18.0 ~ 27.1	7.2 ~ 9.9	27.1 ~ 37.4	9.9 ~ 13.6	37.4 ~ 51.5
HD405-7R	4.7 ~ 7.1	17.9 ~ 26.8	7.1 ~ 9.8	26.8 ~ 37.2	9.8 ~ 13.6	37.2 ~ 51.4
HD465-7	7.6 ~ 11.4	28.7 ~ 43.0	11.4 ~ 15.2	43.0 ~ 57.4	15.2 ~ 20.8	57.4 ~ 78.9
HD465-7E0	7.0 ~ 10.5	26.4 ~ 39.8	10.5 ~ 14.2	39.8 ~ 53.7	14.2 ~ 20.6	53.7 ~ 78.1
HD465-7R	6.9 ~ 10.4	26.3 ~ 39.5	10.4 ~ 14.1	39.5 ~ 53.5	14.1 ~ 20.6	53.5 ~ 78.1
HD605-7	7.6 ~ 11.4	28.7 ~ 43.0	11.4 ~ 15.2	43.0 ~ 57.4	15.2 ~ 20.8	57.4 ~ 78.9
HD605-7E0	7.0 ~ 10.5	26.4 ~ 39.8	10.5 ~ 14.2	39.8 ~ 53.7	14.2 ~ 20.6	53.7 ~ 78.1
HD605-7R	6.9 ~ 10.4	26.3 ~ 39.5	10.4 ~ 14.1	39.5 ~ 53.5	14.1 ~ 20.6	53.5 ~ 78.1
HD785-5	10.4 ~ 15.6	39.4 ~ 59.2	15.6 ~ 20.8	59.2 ~ 78.9	20.8 ~ 28.7	78.9 ~ 108.5
HD785-7	10.2 ~ 15.2	38.5 ~ 57.7	15.2 ~ 20.4	57.7 ~ 77.3	20.4 ~ 28.6	77.3 ~ 108.2
HD1500-7	13.7 ~ 17.1	51.8 ~ 64.8	17.1 ~ 24.0	64.8 ~ 90.7	24.0 ~ 32.8	90.7 ~ 124.4
730E	19.3 ~ 24.2	73.2 ~ 91.5	24.2 ~ 33.8	91.5 ~ 128	33.8 ~ 46.4	128 ~ 175.6
830E-AC	24.5 ~ 30.6	92.7 ~ 115.9	30.6 ~ 42.8	115.9 ~ 162.2	42.8 ~ 58.8	162.2 ~ 222.5
860E-1K	27.0 ~ 33.7	102.1 ~ 127.6	33.7 ~ 47.2	127.6 ~ 178.7	47.2 ~ 64.8	178.7 ~ 245.1
930E-4	24.9 ~ 31.1	94.1 ~ 117.6	31.1 ~ 43.5	117.6 ~ 164.7	43.5 ~ 59.7	164.7 ~ 225.8
930E-4SE	33.8 ~ 42.3	128.0 ~ 160.0	42.3 ~ 59.2	160.0 ~ 224.1	59.2 ~ 81.2	224.1 ~ 307.3
960E	33.8 ~ 42.3	128.0 ~ 160.0	42.3 ~ 59.2	160.0 ~ 224.1	59.2 ~ 81.2	224.1 ~ 307.3

CONDITIONS:

- Low : High ratio of loading time to cycle time, good haul road conditions
Low truck job efficiency
- Medium : Medium ratio of traveling time to cycle time, medium load factor of truck, and medium haul road conditions and grade
Total resistance; Over 2 % through 10 %
- High : High ratio of traveling time to cycle time, tough load factor of truck, severe haul road conditions and grade
Total resistance; 10 % and above

(5) Articulated dump trucks

Range Machine	Low		Medium		High	
	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr
HM250-2	3.2 ~ 4.9	12.3 ~ 18.4	4.9 ~ 6.5	18.4 ~ 24.6	6.5 ~ 8.9	24.6 ~ 33.8
HM300-1	3.4 ~ 5.1	12.8 ~ 19.3	5.1 ~ 6.8	19.3 ~ 25.7	6.8 ~ 9.3	25.7 ~ 35.3
HM300-2	3.0 ~ 4.8	11.5 ~ 18.3	4.8 ~ 6.1	18.3 ~ 23.2	6.1 ~ 9.5	23.2 ~ 35.9
HM300-2R	3.0 ~ 4.8	11.5 ~ 18.3	4.8 ~ 6.1	18.3 ~ 23.2	6.1 ~ 9.5	23.2 ~ 35.9
HM350-1	4.3 ~ 6.4	16.1 ~ 24.1	6.4 ~ 8.5	24.1 ~ 32.2	8.5 ~ 11.7	32.2 ~ 44.2
HM350-2	4.2 ~ 6.3	16.0 ~ 23.7	6.3 ~ 7.5	23.7 ~ 28.3	7.5 ~ 9.9	28.3 ~ 37.5
HM350-2R	4.2 ~ 6.3	16.0 ~ 23.7	6.3 ~ 7.5	23.7 ~ 28.3	7.5 ~ 9.9	28.3 ~ 37.5
HM400-1	4.5 ~ 6.7	17.0 ~ 25.5	6.7 ~ 9.0	25.5 ~ 34.0	9.0 ~ 12.4	34.0 ~ 46.8
HM400-2	5.2 ~ 6.5	19.5 ~ 24.5	6.5 ~ 8.9	24.5 ~ 33.6	8.9 ~ 12.9	33.6 ~ 48.8
HM400-2R	5.2 ~ 6.5	19.5 ~ 24.5	6.5 ~ 8.9	24.5 ~ 33.6	8.9 ~ 12.9	33.6 ~ 48.8

CONDITIONS:

- Low : Long loading time, downhill travel with load, travel on well maintained road
- Medium : Normal loading time, uphill travel with load (normal grade), travel on well maintained road
- High : Short loading time, uphill travel with load (steep grade), travel on normally maintained road

Construction

(6) Wheel loaders

Range Machine	Low		Medium		High	
	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr
WA150-5	1.2 ~ 1.7	4.5 ~ 6.3	1.7 ~ 2.1	6.3 ~ 7.9	2.1 ~ 2.9	7.9 ~ 11.0
WA150-6	1.2 ~ 1.7	4.7 ~ 6.5	1.7 ~ 2.2	6.5 ~ 8.2	2.2 ~ 3.0	8.2 ~ 11.4
WA200, PT-5	1.6 ~ 2.2	5.9 ~ 8.3	2.2 ~ 2.7	8.3 ~ 10.4	2.7 ~ 3.8	10.4 ~ 14.5
WA200, PZ-6	1.6 ~ 2.2	5.9 ~ 8.3	2.2 ~ 2.7	8.3 ~ 10.4	2.7 ~ 3.8	10.4 ~ 14.4
WA250, PT-5	1.8 ~ 2.6	7.0 ~ 9.8	2.6 ~ 3.2	9.8 ~ 12.3	3.2 ~ 4.3	12.3 ~ 16.2
WA250, PZ-6	1.8 ~ 2.5	6.9 ~ 9.6	2.5 ~ 3.2	9.6 ~ 12.1	3.2 ~ 4.2	12.1 ~ 15.9
WA320-5	2.2 ~ 3.0	8.2 ~ 11.5	3.0 ~ 3.8	11.5 ~ 14.5	3.8 ~ 5.0	14.5 ~ 19.1
WA320-3	2.6 ~ 3.7	10.0 ~ 13.9	3.7 ~ 4.6	13.9 ~ 17.5	4.6 ~ 6.1	17.5 ~ 23.1
WA320 custom	2.6 ~ 3.6	9.8 ~ 13.7	3.6 ~ 4.5	13.7 ~ 17.2	4.5 ~ 6.0	17.2 ~ 22.7
WA320, PZ-6	2.2 ~ 3.0	8.2 ~ 11.5	3.0 ~ 3.8	11.5 ~ 14.4	3.8 ~ 5.0	14.4 ~ 19.0
WA380-3	3.0 ~ 4.2	11.4 ~ 16.0	4.2 ~ 5.3	16.0 ~ 20.1	5.2 ~ 7.0	20.1 ~ 26.5
WA380-5	2.9 ~ 4.0	10.8 ~ 15.2	4.0 ~ 5.0	15.2 ~ 19.1	5.0 ~ 6.6	19.1 ~ 25.1
WA380-6	2.4 ~ 3.4	9.1 ~ 12.8	3.4 ~ 4.3	12.8 ~ 16.1	4.3 ~ 5.8	16.1 ~ 22.1
WA430-5	3.3 ~ 4.6	12.5 ~ 17.6	4.6 ~ 5.8	17.6 ~ 22.1	5.8 ~ 7.7	22.1 ~ 29.1
WA430-6	2.8 ~ 4.1	10.7 ~ 15.4	4.1 ~ 5.1	15.4 ~ 19.2	5.1 ~ 6.8	19.2 ~ 25.8
WA470-3	4.0 ~ 5.5	15.0 ~ 21.0	5.5 ~ 6.9	21.0 ~ 26.3	6.9 ~ 9.2	26.3 ~ 34.7
WA470-5	3.5 ~ 4.8	13.1 ~ 18.3	4.8 ~ 6.1	18.3 ~ 23.0	6.1 ~ 8.0	23.0 ~ 30.3
WA470-6*	2.9 ~ 4.1	11.0 ~ 15.5	4.1 ~ 5.1	15.5 ~ 19.3	5.1 ~ 7.1	19.3 ~ 27.0
WA480-5	3.6 ~ 5.0	13.6 ~ 19.1	5.0 ~ 6.3	19.1 ~ 24.0	6.3 ~ 8.4	24.0 ~ 31.7
WA480-6*	3.1 ~ 4.3	11.6 ~ 16.2	4.3 ~ 5.4	16.2 ~ 20.4	5.4 ~ 7.8	20.4 ~ 29.6
WA500-3	5.5 ~ 7.7	20.9 ~ 29.3	6.9 ~ 9.8	29.3 ~ 37.0	9.8 ~ 12.9	37.0 ~ 48.8
WA500-6	4.9 ~ 6.9	18.7 ~ 26.2	6.9 ~ 8.7	26.2 ~ 33.1	8.7 ~ 12.0	33.1 ~ 45.6
WA500-6R	4.9 ~ 6.9	18.7 ~ 26.2	6.9 ~ 8.7	26.2 ~ 33.1	8.7 ~ 12.0	33.1 ~ 45.6
WA600-3	8.2 ~ 11.5	31.1 ~ 43.5	11.5 ~ 14.5	43.5 ~ 54.9	14.5 ~ 19.2	54.9 ~ 72.5
WA600-6	7.9 ~ 10.6	30.0 ~ 40.2	10.6 ~ 12.7	40.2 ~ 51.9	13.7 ~ 18.9	51.9 ~ 71.6
WA600-6R	7.9 ~ 10.6	30.0 ~ 40.2	10.6 ~ 13.7	40.2 ~ 51.9	13.7 ~ 18.9	51.9 ~ 71.6
WA700-3	10.3 ~ 14.5	39.1 ~ 54.8	14.5 ~ 18.3	54.8 ~ 69.1	18.3 ~ 24.1	69.1 ~ 91.3
WA800-3	11.8 ~ 16.5	44.6 ~ 62.5	16.5 ~ 20.8	62.5 ~ 78.9	20.8 ~ 31.4	78.9 ~ 119.0
WA800-3E0	11.8 ~ 16.5	44.6 ~ 62.5	16.5 ~ 20.8	62.5 ~ 78.9	20.8 ~ 31.4	78.9 ~ 119.0
WA900-3	12.3 ~ 17.2	46.5 ~ 65.1	17.2 ~ 21.7	65.1 ~ 82.1	21.7 ~ 28.7	82.1 ~ 124.0
WA900-3E0	12.5 ~ 17.5	47.3 ~ 66.2	17.5 ~ 22.1	66.2 ~ 83.5	22.1 ~ 33.3	83.5 ~ 126.1
WA1200-3	26.4 ~ 37.0	100.1 ~ 140.1	37.0 ~ 46.7	140.1 ~ 176.8	46.7 ~ 61.7	176.8 ~ 233.5

CONDITIONS:

- Low : Light utility, work with considerable amount of idling
- Medium : Non-stop operation over a long distance
Operation according to a basic loader cycle with frequent idling
- High : Non-stop operation according to a basic loader cycle
- * : With large-capacity torque convertor

(7) Wheel dozers

Range Machine	Low		Medium		High	
	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr
WD600-3	8.6 ~ 12.0	32.4 ~ 45.3	12.0 ~ 15.1	45.3 ~ 57.2	15.1 ~ 19.9	57.2 ~ 75.5
WD600-6	8.6 ~ 12.1	32.6 ~ 45.7	12.1 ~ 15.2	45.7 ~ 57.6	15.2 ~ 20.1	57.6 ~ 76.1
WD900-3	13.5 ~ 18.9	51.2 ~ 71.7	18.9 ~ 23.9	71.7 ~ 90.5	23.9 ~ 31.6	90.5 ~ 119.5

CONDITIONS:

- Low : Work where machine spend most of operation hours idling or traveling with no load
- Medium : Average earth moving, scraper hauling, easy pushing
- High : Heavy pushing
Continuous operation

**Construction
(8) Motor graders**

Machine	Range	Low		Medium		High	
	Amount	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr
GD511A-1		2.0 ~ 3.2	7.5 ~ 12.0	3.2 ~ 4.4	12.0 ~ 16.5	4.4 ~ 5.5	16.5 ~ 21.0
GD555-3A, 3C		2.3 ~ 3.7	8.8 ~ 14.0	3.7 ~ 5.1	14.0 ~ 19.3	5.1 ~ 6.5	19.3 ~ 24.6
GD555-5		2.7 ~ 4.3	10.1 ~ 16.2	4.3 ~ 5.9	16.2 ~ 22.3	5.9 ~ 7.5	22.3 ~ 28.4
GD611A-1		2.2 ~ 3.5	8.2 ~ 13.2	3.5 ~ 4.8	13.2 ~ 18.1	4.8 ~ 6.1	18.1 ~ 23.1
GD655-3A		2.6 ~ 4.3	10.0 ~ 16.1	4.3 ~ 5.8	16.1 ~ 22.1	5.8 ~ 7.4	22.1 ~ 28.1
GD655-3E0		2.5 ~ 4.0	9.5 ~ 15.2	4.0 ~ 5.5	15.2 ~ 20.9	5.5 ~ 7.0	20.9 ~ 26.6
GD655-5		3.0 ~ 4.8	11.5 ~ 18.3	4.8 ~ 6.7	18.3 ~ 25.2	6.7 ~ 8.5	25.2 ~ 32.1
GD661A-1		2.7 ~ 4.3	10.1 ~ 16.2	4.3 ~ 5.9	16.2 ~ 22.3	5.9 ~ 7.5	22.3 ~ 28.3
GD675-3A		2.6 ~ 4.2	9.9 ~ 15.8	4.2 ~ 5.7	15.8 ~ 21.7	5.7 ~ 7.3	21.7 ~ 27.6
GD675-3E0		2.5 ~ 4.0	9.5 ~ 15.2	4.0 ~ 5.5	15.2 ~ 20.9	5.5 ~ 7.0	20.9 ~ 26.6
GD675-5		3.0 ~ 4.8	11.5 ~ 18.3	4.8 ~ 6.7	18.3 ~ 25.2	6.7 ~ 8.5	25.2 ~ 32.1
GD705A-4		2.5 ~ 4.0	9.5 ~ 15.1	4.0 ~ 5.5	15.1 ~ 20.8	5.5 ~ 7.0	20.8 ~ 26.5
GD825A-2		3.7 ~ 6.0	14.1 ~ 22.6	6.0 ~ 8.2	22.6 ~ 31.0	8.2 ~ 10.4	31.0 ~ 39.5

CONDITIONS:

- Low: Minor road maintenance, leveling, traveling with no load
- Medium: Average road maintenance, scarifying, light snow removal
- High: Heavy pushing, continuous operation

Table 3 Hourly Fuel Consumption

Mining

(1) Bulldozers

Machine	Range Amount	Low		Medium		High	
		U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr
D275A-5	9.3 ~ 12.8	35.3 ~ 48.5	12.8 ~ 17.5	48.5 ~ 66.1	17.5 ~ 21.0	66.1 ~ 79.4	
D275AX-5E0	9.5 ~ 12.8	35.8 ~ 48.3	12.8 ~ 17.5	48.3 ~ 66.1	17.5 ~ 20.8	66.2 ~ 78.7	
D275A-5R	9.3 ~ 12.7	35.3 ~ 48.2	12.7 ~ 17.5	48.2 ~ 66.2	17.5 ~ 21.0	66.2 ~ 79.4	
D375A-5	12.9 ~ 17.5	48.7 ~ 66.2	17.5 ~ 24.1	66.2 ~ 91.2	24.1 ~ 29.0	91.2 ~ 109.9	
D375A-5R	12.2 ~ 16.7	46.3 ~ 63.2	16.7 ~ 23.0	63.2 ~ 86.9	23.0 ~ 27.7	86.9 ~ 105.0	
D375A-6	13.1 ~ 18.0	49.6 ~ 68.2	18.0 ~ 24.6	68.2 ~ 93.0	24.6 ~ 29.5	93.0 ~ 111.6	
D375A-6R	12.6 ~ 17.4	47.8 ~ 65.7	17.4 ~ 23.7	65.7 ~ 89.6	23.7 ~ 28.4	89.6 ~ 107.5	
D475A-5E0, ASD-5E0	18.0 ~ 24.7	68.0 ~ 93.5	24.7 ~ 33.7	93.5 ~ 127.5	33.7 ~ 40.4	127.5 ~ 153.0	
D575A-3	24.2 ~ 33.3	91.6 ~ 125.9	33.3 ~ 45.4	125.9 ~ 171.7	45.4 ~ 54.4	171.7 ~ 206.0	
D575A-3SD	26.2 ~ 36.0	99.1 ~ 136.3	36.0 ~ 49.1	136.3 ~ 185.8	49.1 ~ 58.9	185.8 ~ 223.0	

CONDITIONS:

- Low : Machine movement is mainly consisting of idle running or traveling unloaded
- Medium : Average earth moving, scraper hauling or easy pushing operation
Ripping ratio more than 50%
- High : Ripping, heavy pushing, and operation continued without rest at full horsepower

(2) Hydraulic excavators

Machine	Range Amount	Low		Medium		High	
		U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr
PC1250, LC, SP-7	9.9 ~ 14.9	37.6 ~ 56.3	14.9 ~ 19.8	56.3 ~ 75.1	19.8 ~ 26.5	75.1 ~ 100.2	
PC1250, LC, SP-8	10.1 ~ 14.7	38.1 ~ 55.8	14.7 ~ 19.8	55.8 ~ 74.9	19.8 ~ 26.4	74.9 ~ 100.1	
PC1250, SP-8R	9.5 ~ 13.8	35.8 ~ 52.4	13.8 ~ 18.5	52.4 ~ 70.2	18.5 ~ 24.8	70.2 ~ 93.9	
PC2000-8	12.5 ~ 18.7	47.2 ~ 70.8	18.7 ~ 29.4	70.8 ~ 94.4	29.4 ~ 33.2	94.4 ~ 125.8	

CONDITIONS:

- Low : Digging account for less than 50% in daily working hours
Loading of low density materials
Unnecessary for big digging force
- Medium : Digging account for 60-85% in daily working hours
After blasting or after dozing
Small rock suitable for the bucket size
- High : Digging account for more than 85% in daily work hours
Direct digging
Heavy duty digging after blasting

Model	Fuel consumption			
	Easy	Average	Rather difficult	Difficult
PC3000-6	161 (42.5)	172 (45.4)	184 (48.6)	208 (55.0)
PC4000-6	228 (60.2)	244 (64.5)	260 (68.7)	293 (77.4)
PC5000-6	306 (80.8)	328 (86.7)	350 (92.5)	393 (103.8)
PC8000-6	515 (136.1)	552 (145.8)	589 (37.9)	662 (174.9)

Mining

(3) Off-highway dump trucks

Machine	Range	Low		Medium		High	
	Amount	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr
HD785-5		10.4 ~ 18.2	39.4 ~ 69.0	18.2 ~ 23.4	69.0 ~ 88.7	23.4 ~ 30.2	88.7 ~ 114.4
HD785-7		9.9 ~ 17.3	37.3 ~ 65.5	17.3 ~ 22.1	65.5 ~ 83.6	22.1 ~ 26.8	83.6 ~ 101.6
HD1500-7		13.7 ~ 17.1	51.8 ~ 64.8	17.1 ~ 24.0	64.8 ~ 90.7	24.0 ~ 32.9	90.7 ~ 124.4
730E		19.3 ~ 24.2	73.2 ~ 91.5	24.2 ~ 33.8	91.5 ~ 128.0	33.8 ~ 46.4	128.0 ~ 175.6
830E-AC		24.5 ~ 30.6	92.7 ~ 115.9	30.6 ~ 42.9	115.9 ~ 162.2	42.9 ~ 58.8	162.2 ~ 222.5
860E-1K		27.0 ~ 33.7	102.1 ~ 127.6	33.7 ~ 47.2	127.6 ~ 178.7	47.2 ~ 64.8	187.6 ~ 245.1
930E-4		24.9 ~ 31.1	94.1 ~ 117.6	31.1 ~ 43.5	117.6 ~ 164.7	43.5 ~ 59.7	164.7 ~ 225.8
930E-4SE		33.8 ~ 42.3	128.0 ~ 160.0	42.3 ~ 59.2	160.0 ~ 224.1	59.2 ~ 81.2	224.1 ~ 307.3
960E		33.8 ~ 42.3	128.0 ~ 160.0	42.3 ~ 59.2	160.0 ~ 224.1	59.2 ~ 81.2	224.1 ~ 307.3

CONDITIONS:

- Low : Variable travel times with the majority of the travel time attributed to segments with total resistance less than 4%
Abnormal operating efficiency with significant periods of wait time or delays
- Medium : Average travel times with a balance between travel time along routes in excess of 10% total resistance and routes less than 4% in total resistance
Normal operating efficiency with occasional periods of wait time or delays
- High : Long travel times with the majority of the travel time attributed to road segments in excess of 10% total resistance
Highly efficient applications with minimum delay or wait periods

(4) Wheel loaders

Machine	Range	Low		Medium		High	
	Amount	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr
WA800-3		12.4 ~ 17.4	47.1 ~ 66.0	17.4 ~ 22.0	66.0 ~ 83.2	22.0 ~ 33.2	83.2 ~ 125.7
WA800-3E0		12.2 ~ 17.0	46.3 ~ 64.4	17.0 ~ 21.6	64.4 ~ 81.7	21.6 ~ 32.8	81.7 ~ 124.1
WA900-3		12.9 ~ 18.1	48.9 ~ 68.5	18.1 ~ 22.8	68.5 ~ 86.5	22.8 ~ 34.5	86.5 ~ 130.5
WA900-3E0		12.5 ~ 17.4	47.4 ~ 65.9	17.4 ~ 22.3	65.9 ~ 84.4	22.3 ~ 33.9	84.4 ~ 128.3
WA1200-3		29.1 ~ 48.4	110.0 ~ 183.3	48.4 ~ 63.0	183.3 ~ 238.3	63.0 ~ 82.4	238.3 ~ 311.7

CONDITIONS:

- Low : Low production aggregate truck loading, large amount of idling time
- Medium : Loading to stock-pile dump trucks
Short time waiting hours for dump trucks
- High : Continuous loading
Short time waiting hours for dump trucks
Digging hard bank
Takes a lot of time for digging
Load and carry operation with high productivity

Mining

(5) Wheel dozers

Machine	Range	Low		Medium		High	
	Amount	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr
WD600-3		9.2 ~ 12.9	34.8 ~ 48.8	12.9 ~ 16.2	48.8 ~ 61.5	16.2 ~ 21.5	61.5 ~ 81.3
WD600-6		8.7 ~ 12.1	32.8 ~ 45.9	12.1 ~ 15.3	45.9 ~ 58.0	15.3 ~ 20.2	58.0 ~ 76.6
WD900-3		12.5 ~ 17.5	47.2 ~ 66.1	17.5 ~ 22.0	66.1 ~ 83.4	22.0 ~ 29.1	83.4 ~ 110.1

CONDITIONS:

- Low : Cleaning a surface of a hauling road, ground around large shovels and hoppers (collecting fallen stones).
- Medium : Stock piling
Dozing of crushing rock
- High : Reclamation
Dozing after digging
Pusher using scraper

(6) Motor graders

Machine	Range	Low		Medium		High	
	Amount	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr	U.S. Gal/hr	ltr./hr
GD825A-2		4.0 ~ 6.5	15.3 ~ 24.5	6.5 ~ 8.9	24.5 ~ 33.7	8.9 ~ 11.3	33.7 ~ 42.9

CONDITIONS:

- Low : Traveling Finishing
Grading of light materials
- Medium : Light duty road maintenance
Scarifying
- High : Ripping
Heavy duty road maintenance

Table 4 Approx. Hourly Lubricants Consumption *
(* Oil replacement (liter) ÷ Oil change interval (hour))

(1) Bulldozers and Dozer shovels

Application Unit Q'TY	*(1) Crank case		*(2) Transmission		*(3) Final Drives		Hydraulic Control		Grease	
	US Gal	Liter	US Gal	Liter	US Gal	Liter	US Gal	Liter	lb	kg
D21A, E, P-8E0	0.004	0.014	0.007	0.025	0.003	0.01	0.005	0.02	0.04	0.02
D31EX, PX-22	0.007	0.025	—	—	0.003	0.01	0.008	0.03	0.04	0.02
D37EX, PX-22	0.007	0.025	—	—	0.003	0.01	0.008	0.03	0.04	0.02
D39EX, PX-22	0.008	0.25	—	—	0.003	0.01	0.008	0.03	0.04	0.02
D51EX, PX-22	0.01	0.04	—	—	0.003	0.01	0.009	0.035	0.04	0.02
D61EX, PX-15E0	0.016	0.06	0.019	0.07	0.016	0.06	0.008	0.03	0.04	0.02
D65E, P-12	0.021	0.08	0.013	0.05	0.013	0.05	0.008	0.03	0.04	0.02
D65EX, PX, WX-16	0.016	0.06	0.013	0.05	0.013	0.05	0.008	0.03	0.04	0.02
D85ESS-2A	0.021	0.08	0.013	0.05	0.016	0.06	0.008	0.03	0.04	0.02
D85EX, PX-15E0	0.021	0.08	0.016	0.06	0.018	0.07	0.011	0.04	0.04	0.02
D85EX, PX-15R	0.021	0.08	0.016	0.06	0.018	0.07	0.011	0.04	0.04	0.02
D155A-5	0.021	0.08	0.016	0.06	0.032	0.12	0.013	0.05	0.07	0.03
D155AX-6	0.021	0.08	0.024	0.09	0.016	0.06	0.016	0.06	0.07	0.03
D155A-6	0.021	0.08	0.019	0.07	0.016	0.06	0.016	0.06	0.07	0.03
D155A-2	0.04	0.15	0.037	0.14	0.029	0.11	0.026	0.10	0.07	0.03
D275A-5	0.029	0.11	0.024	0.09	0.021	0.08	0.021	0.08	0.09	0.04
D275AX-5E0, D275A-5R	0.029	0.11	0.024	0.09	0.021	0.08	0.021	0.08	0.09	0.04
D375A-5	0.032	0.12	0.04	0.15	0.019	0.07	0.016	0.06	0.09	0.04
D375A-5R	0.045	0.17	0.04	0.15	0.032	0.12	0.023	0.10	0.09	0.04
D375A-6, D375A-6R	0.045	0.17	0.04	0.15	0.032	0.12	0.019	0.07	0.09	0.04
D475A-5E0	0.066	0.25	0.055	0.21	0.04	0.15	0.042	0.16	0.11	0.05
D575A-3	0.137	0.52	0.093	0.35	0.042	0.16	0.04	0.15	0.13	0.06

*(1) Includes lubricant oil of compressor for Portable Air Compressor

*(2) Includes oils in the torque converter, main clutch and steering cases, differential, etc.

*(3) Includes oils in the tandem case of Motor Grader.

(2) Hydraulic excavators

Application Unit Q'TY	*(1) Crank case		Transmission or Swing Machinery		*(2) Final Drives		Hydraulic Control		Grease	
	US Gal	Liter	US Gal	Liter	US Gal	Liter	US Gal	Liter	lb	kg
Machine Model										
PC18MR-3, PC20MR-3	0.002	0.007	—	—	0.0003	0.001	0.003	0.01	0.04	0.02
PC27MR-3	0.004	0.015	—	—	0.0003	0.001	0.003	0.01	0.04	0.02
PC30MR-3, PC35MR-3	0.004	0.015	—	—	0.0003	0.001	0.003	0.01	0.04	0.02
PC45MR-3, PC55MR-3	0.004	0.015	—	—	0.0006	0.002	0.003	0.01	0.04	0.02
PC78US-8	0.006	0.022	0.0005	0.002	0.0006	0.002	0.003	0.012	0.09	0.04
PC88MR-8	0.006	0.022	0.001	0.003	0.0006	0.002	0.003	0.012	0.09	0.04
PC130-8	0.006	0.022	0.001	0.003	0.001	0.004	0.005	0.02	0.11	0.05
PC138US-8	0.006	0.022	0.001	0.003	0.001	0.004	0.005	0.02	0.11	0.05
PC160LC-7E0, PC160LC-8	0.008	0.032	0.0013	0.005	0.001	0.004	0.007	0.025	0.11	0.05
PC200, LC-7, PC210, LC-7	0.013	0.05	0.002	0.007	0.0013	0.005	0.008	0.03	0.15	0.07
PC200, LC-8, PC210, LC-8	0.013	0.05	0.002	0.007	0.0013	0.005	0.008	0.03	0.15	0.07
PC228US, LC-3E0	0.013	0.05	0.002	0.007	0.0013	0.005	0.008	0.03	0.15	0.07
PC220, LC-7, PC240LC-7	0.013	0.05	0.002	0.007	0.0013	0.005	0.008	0.03	0.15	0.07
PC220, LC-8, PC240LC-8	0.013	0.05	0.002	0.008	0.0013	0.005	0.008	0.03	0.15	0.07
PC220, LC-8	0.013	0.05	0.002	0.008	0.0013	0.005	0.008	0.03	0.15	0.07
PC300, LC-7, PC350, LC-7	0.019	0.07	0.004	0.014	0.003	0.01	0.011	0.04	0.22	0.10
PC300, LC-8, PC350, LC-8	0.018	0.07	0.005	0.017	0.003	0.01	0.01	0.04	0.22	0.10
PC400, LC-7, PC450, LC-7	0.02	0.08	0.007	0.027	0.003	0.013	0.013	0.05	0.26	0.12
PC400, LC-8, PC450, LC-8	0.021	0.08	0.005	0.02	0.003	0.011	0.013	0.05	0.26	0.12
PC400-8R, PC450-8R	0.021	0.08	0.005	0.02	0.003	0.011	0.013	0.05	0.26	0.12
PC600, LC-7	0.021	0.08	0.007	0.026	0.003	0.01	0.019	0.07	0.35	0.16
PC600, LC-8	0.021	0.09	0.007	0.026	0.003	0.01	0.019	0.07	0.35	0.16
PC600, LC-8R	0.021	0.09	0.007	0.026	0.003	0.01	0.019	0.07	0.35	0.16
PC750-7, PC800-7	0.032	0.12	0.013	0.05	0.005	0.02	0.024	0.09	0.35	0.16
PC800-8, PC850-8	0.032	0.12	0.013	0.05	0.005	0.02	0.026	0.1	0.35	0.16
PC800-8R, PC850-8R	0.032	0.12	0.013	0.05	0.005	0.02	0.026	0.1	0.35	0.16
PC1250, SP-7	0.032	0.12	0.013	0.05	0.006	0.022	0.037	0.14	0.40	0.18
PC1250, SP-8	0.048	0.18	0.013	0.05	0.006	0.021	0.037	0.14	0.40	0.20
PC1250, SP-8R	0.048	0.18	0.013	0.05	0.006	0.021	0.037	0.14	0.40	0.20
PC2000-8	0.063	0.24	0.016	0.06	0.022	0.085	0.07	0.26	0.18	0.08

*(1) Includes lubricant of PTO case.

*(2) Includes lubricant of differential gear box.

	Total Capacities Per Excavator					Total Consumption Per Excavator (Including oil change volume)				
	Engine ltr. (US Gal)	PTO ltr. (US Gal)	Hydraulic Reservoir ltr. (US Gal)	Slew gears ltr. (US Gal)	Travel gears ltr. (US Gal)	Engine Oil ltr/h (US Gal/h)	Hydraulic Oil ltr/h (US Gal/h)*	Gear Oil ltr/h (US Gal/h)**	Central Lubrication kg/h (lb/h)	Slew ring gear Lubrication kg/h (lb/h)
PC3000 SSA12V159	190 (50.2)	90 (23.8)	2900 (766)	83 (21.9)	135 (35.7)	0.8 (0.21)	0.53 (0.14)	0.10 (0.026)	0.14 (0.31)	0.035 (0.08)
PC3000/E	—	90 (23.8)	2900 (766)	83 (21.9)	135 (35.7)	—	0.53 (0.14)	0.10 (0.026)	0.14 (0.31)	0.035 (0.08)
PC4000-6 SDA16V160	866*** (229)	150 (39.6)	3900 (1030)	166 (43.9)	310 (81.9)	1.1 (0.29)	0.72 (0.19)	0.21 (0.055)	0.16 (0.35)	0.04 (0.09)
PC4000/E	—	150 (39.6)	3900 (1030)	166 (43.9)	310 (81.9)	—	0.72 (0.19)	0.21 (0.055)	0.16 (0.35)	0.04 (0.09)
PC5500 2 x SSA12V159	380*** (100)	190 (50.2)	3800 (1004)	166 (43.9)	237 (62.6)	1.6 (0.42) 1.8*** (0.48)	0.70 (0.21)	0.20 (0.053)	0.18 (0.40)	0.05 (0.11)
PC5500/E	—	153 (40.4)	3800 (1004)	166 (43.9)	237 (62.6)	—	0.70 (0.21)	0.19 (0.05)	0.18 (0.40)	0.05 (0.11)
PC8000 2 x SDA16V160	2214*** (585)	240 (63.4)	8350 (2206)	249 (65.8)	780 (206)	2.2*** (0.58)	1.53 (0.40)	0.43 (0.114)	0.20 (0.44)	0.06 (0.13)
PC8000/E	—	240 (63.4)	8350 (2206)	100 (26.4)	900 (238)	—	1.53 (0.40)	0.42 (0.11)	0.20 (0.44)	0.06 (0.13)

* 10% of oil change volume between oil change intervals plus volume of oil change (latest every 6000 h)

** 2% of oil change volume between oil change interval (3000 h) plus volume of oil change

*** Including oil management system

(3) Off-highway dump trucks

Application Unit Q'TY	*(1) Crank case		*(2) Transmission		*(3) Final Drives		*(4) Hydraulic Control		Grease	
	US Gal	Liter	US Gal	Liter	US Gal	Liter	US Gal	Liter	lb	kg
Machine Model										
HD255-5	0.02	0.08	0.018	0.07	0.003	0.01	0.011	0.04	0.04	0.02
HD325-6	0.029	0.11	0.024	0.09	0.016	0.06	0.019	0.07	0.04	0.02
HD325-7	0.029	0.11	0.023	0.09	0.011	0.04	0.009	0.035	0.04	0.02
HD325-7R	0.029	0.11	0.023	0.09	0.011	0.04	0.009	0.035	0.04	0.02
HD405-6	0.029	0.11	0.024	0.09	0.016	0.06	0.019	0.07	0.04	0.02
HD405-7	0.029	0.11	0.023	0.09	0.011	0.04	0.009	0.035	0.04	0.02
HD405-7R	0.029	0.11	0.023	0.09	0.011	0.04	0.009	0.035	0.04	0.02
HD465-7	0.032	0.12	0.05	0.19	0.019	0.07	0.009	0.032	0.04	0.02
HD465-7E0	0.042	0.16	0.06	0.22	0.019	0.07	0.009	0.032	0.04	0.02
HD465-7R	0.042	0.16	0.06	0.22	0.019	0.07	0.009	0.032	0.04	0.02
HD605-7	0.032	0.12	0.05	0.19	0.019	0.07	0.008	0.03	0.04	0.02
HD605-7E0	0.042	0.16	0.05	0.19	0.019	0.07	0.009	0.032	0.04	0.02
HD605-7R	0.042	0.16	0.06	0.22	0.019	0.07	0.009	0.032	0.04	0.02
HD785-5	0.069	0.26	0.029	0.11	0.034	0.13	0.053	0.20	0.07	0.03
HD785-7	0.069	0.26	0.055	0.21	0.034	0.13	0.021	0.08	0.07	0.03
HM250-2	0.021	0.08	0.021	0.08	0.012	0.045	0.08	0.03	0.04	0.02
HM300-1	0.019	0.07	0.021	0.08	0.013	0.05	0.008	0.03	0.04	0.02
HM300-2, HM300-2R	0.021	0.08	0.021	0.08	0.012	0.045	0.008	0.03	0.04	0.02
HM350-1	0.029	0.11	0.032	0.12	0.019	0.07	0.013	0.05	0.04	0.02
HM350-2, HM350-2R	0.029	0.11	0.032	0.12	0.016	0.06	0.013	0.05	0.04	0.02
HM400-1	0.029	0.11	0.032	0.12	0.021	0.08	0.013	0.05	0.04	0.02
HM400-2, HM400-2R	0.029	0.11	0.032	0.12	0.019	0.07	0.013	0.05	0.04	0.02

*(1) Includes lubricant oil of compressor for Portable Air Compressor
 *(2) Includes oils in the torque converter, main clutch and steering cases, differential, etc.
 *(3) Includes oils in the tandem case of Motor Grader
 Includes oils in the differential case of Dump Truck
 *(4) Includes oils in the brake cooling tank

(4) Wheel loaders and Wheel dozers

Application Unit Q'TY	*(1) Crank case		*(2) Transmission		*(3) Final Drives		*(4) Hydraulic Control		Grease	
	US Gal	Liter	US Gal	Liter	US Gal	Liter	US Gal	Liter	lb	kg
WA150-5	0.007	0.025	0.0013	0.005	0.004	0.015	0.006	0.024	0.02	0.01
WA150-6	0.006	0.023	0.001	0.004	0.004	0.015	0.006	0.024	0.02	0.01
WA200-5	0.01	0.04	0.0013	0.006	0.005	0.02	0.008	0.03	0.02	0.01
WA200-6, WA200PZ-6	0.008	0.03	0.0013	0.005	0.005	0.02	0.008	0.03	0.02	0.01
WA250-5	0.01	0.04	0.002	0.005	0.005	0.02	0.011	0.04	0.02	0.01
WA250-6, WA250PZ-6	0.013	0.05	0.002	0.006	0.005	0.02	0.011	0.04	0.02	0.01
WA320-5	0.01	0.04	0.002	0.007	0.013	0.03	0.013	0.05	0.02	0.01
WA320-6, WA320PZ-6	0.013	0.05	0.002	0.007	0.013	0.03	0.013	0.05	0.02	0.01
WA380-3	0.032	0.12	0.011	0.04	0.011	0.04	0.019	0.07	0.02	0.01
WA380-6	0.013	0.05	0.01	0.04	0.005	0.02	0.018	0.07	0.02	0.01
WA380-5	0.019	0.07	0.016	0.06	0.011	0.04	0.019	0.07	0.02	0.01
WA420-3	0.032	0.12	0.016	0.06	0.016	0.06	0.019	0.07	0.02	0.01
WA430-5	0.019	0.07	0.016	0.06	0.011	0.04	0.019	0.07	0.02	0.01
WA430-6	0.019	0.07	0.016	0.06	0.013	0.05	0.019	0.07	0.02	0.01
WA470-3	0.037	0.14	0.016	0.06	0.019	0.07	0.021	0.08	0.02	0.01
WA470-5, WA480-5	0.021	0.08	0.016	0.06	0.016	0.06	0.026	0.10	0.02	0.01
WA470-6, WA480-6	0.021	0.08	0.016	0.06	0.016	0.06	0.026	0.10	0.02	0.01
WA470-6**, WA480-6**	0.021	0.08	0.018	0.07	0.016	0.06	0.026	0.10	0.02	0.01
WA500-3	0.04	0.15	0.032	0.12	0.021	0.08	0.024	0.09	0.04	0.02
WA500-6, WA500-6R	0.026	0.10	0.02	0.08	0.024	0.09	0.045	0.17	0.04	0.02
WA600-3	0.045	0.17	0.029	0.11	0.034	0.13	0.048	0.18	0.04	0.02
WA600-6, WA600-6R	0.048	0.18	0.024	0.09	0.042	0.16	0.06	0.23	0.04	0.02
WA700-3	0.058	0.22	0.029	0.11	0.066	0.25	0.066	0.25	0.06	0.03
WA800-3, WA800-3E0	0.071	0.27	0.034	0.14	0.095	0.36	0.10	0.37	0.09	0.04
WA900-3, WA900-3E0	0.071	0.27	0.034	0.14	0.095	0.36	0.10	0.37	0.09	0.04
WA1200-3	0.275	1.04	0.092	0.35	0.22	0.83	0.16	0.60	0.18	0.08
WD420-3	0.032	0.12	0.016	0.06	0.016	0.06	0.019	0.07	0.02	0.01
WD500-3	0.04	0.15	0.032	0.12	0.021	0.08	0.024	0.09	0.04	0.02
WD600-3	0.06	0.20	0.04	0.12	0.03	0.11	0.03	0.11	0.04	0.02
WD600-6	0.048	0.18	0.024	0.09	0.042	0.16	0.06	0.23	0.04	0.02
WD900-3	0.071	0.27	0.034	0.14	0.095	0.36	0.10	0.37	0.09	0.04

- *(1) Includes lubricant oil of compressor for Portable Air Compressor
- *(2) Includes oils in the torque converter, main clutch and steering cases, differential, etc.
- *(3) Includes oils in the tandem case of Motor Grader
- *(4) Includes oils in the brake cooling tank
- ** With large-capacity torque convertor

(5) Motor graders

Application Unit Q'TY	*(1) Crank case		*(2) Transmission		*(3) Final Drives		Hydraulic Control		Grease	
	US Gal	Liter	US Gal	Liter	US Gal	Liter	US Gal	Liter	lb	kg
GD500 series	0.029	0.11	0.008	0.03	0.024	0.09	0.008	0.03	0.04	0.02
GD555-3A/C	0.021	0.08	0.013	0.05	0.024	0.09	0.008	0.03	0.04	0.02
GD555-5	0.013	0.05	0.013	0.05	0.024	0.09	0.009	0.035	0.04	0.02
GD600 series	0.029	0.11	0.011	0.04	0.024	0.09	0.008	0.03	0.04	0.02
GD655-3A	0.021	0.08	0.013	0.05	0.016	0.06	0.008	0.03	0.04	0.02
GD655-3E0	0.016	0.06	0.013	0.05	0.016	0.06	0.008	0.03	0.04	0.02
GD655-5	0.013	0.05	0.013	0.05	0.024	0.09	0.009	0.035	0.04	0.02
GD675-3A	0.021	0.08	0.013	0.05	0.016	0.06	0.008	0.03	0.04	0.02
GD675-3E0	0.016	0.06	0.013	0.05	0.016	0.06	0.008	0.03	0.04	0.02
GD675-5	0.013	0.05	0.013	0.05	0.024	0.09	0.009	0.035	0.04	0.02
GD705A-4	0.042	0.16	0.011	0.04	0.034	0.13	0.021	0.08	0.09	0.04
GD825A-2	0.042	0.16	0.011	0.04	0.034	0.13	0.024	0.09	0.09	0.04

- *(1) Includes lubricant oil of compressor for Portable Air Compressor
- *(2) Includes oils in the torque converter, main clutch and steering cases, differential, etc.
- *(3) Includes oils in the tandem case of Motor Grader

Table 4 Approximate Tire Life

Machine	Easy Condition	Medium Condition	Severe Condition
Off-Highway Dump Trucks	4,000 ~ 6,000	2,000 ~ 4,000	1,000 ~ 2,000
Articulated Dump Trucks	7,000	5,000	3,000
Motor Graders	3,000	2,000	1,000
Wheel Loaders	4,000 ~ 6,000	2,000 ~ 4,000	1,000 ~ 2,000
Wheel Dozers	3,000	2,000	1,000
Hydraulic Excavators	3,000	2,000	1,000
	Traveling on well-maintained roads, or in silt or sand, tire wear is normal.	Traveling on gravelly surfaces, tire wear is normal but occasionally cut by rocks.	Tire wear mostly due to rock-cut, liable to puncture frequently.

The life varies with brand and material. Tires may be used above or below the tire life expectancy given in this table.

Table 5 Approximate Usable Hours of Special Items

Item	Easy Range	Medium Range	Severe Range
Ripper Point	150	30	15
Shank Protector	1,500	450	150
Shank	7,000	3,500	2,000

Optimum Fleet Recommendation (OFR) software program is available for Komatsu distributors.
The OFR is able to simulate and recommend optimum fleet for the targeted production with followings.

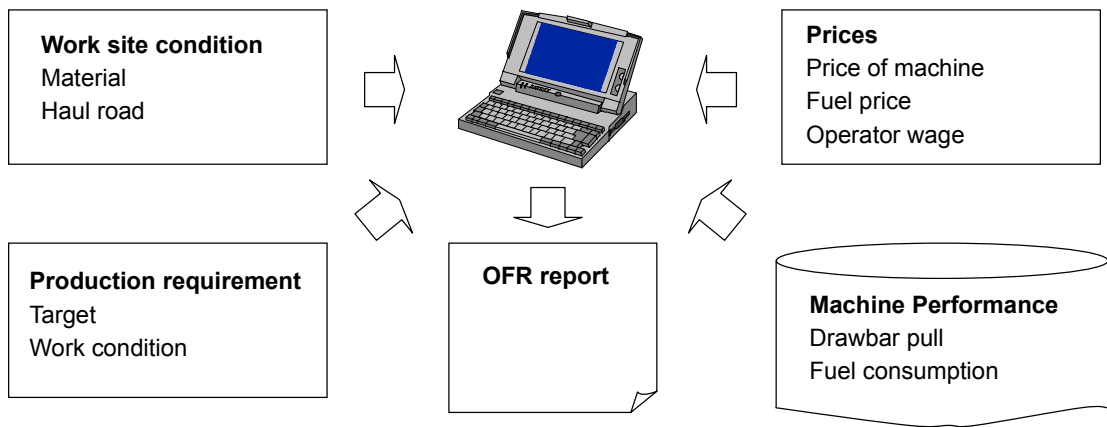
1. Machine selection based on site conditions and target of production.
2. Estimation of each machine's production.
3. Estimation of owning and operating costs.
4. Estimation of production cost.

Available machine type in the database

1. Dump truck
2. Wheel loader
3. Hydraulic excavator
4. Bulldozer
5. Mobile crusher & recycler



Computer processing



Report contents

1. Production condition, object material, cost data
2. Optimum machine combination
3. Production
4. Number of units
5. Production cost

For Customer;

Please contact the nearest Komatsu distributor with your specific conditions, application and requirements.

About Repair and Maintenance Cost Estimation

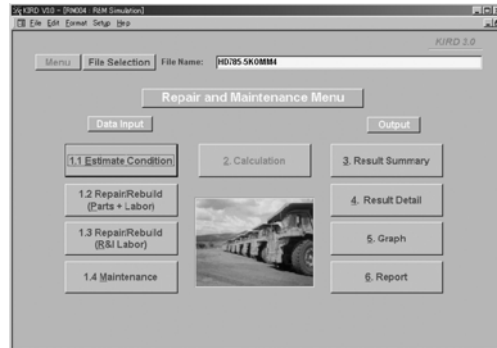
Repair and Maintenance cost is a part of the owning and operating cost.

Repair and Maintenance cost estimating software is available for Komatsu distributors.

The system is called KIRD (Komatsu Information on Reliability and Durability).

By using the KIRD, we can calculate Repair and Maintenance cost for Komatsu large sized equipment with local conditions such as followings.

1. Parts price (Each country has different import duty, transportation charge and etc.)
2. Hourly labor charges
3. Lubricants prices
4. Repairing methods (Repair option)
 - Rebuild
 - REMAN (Komatsu component exchange)
5. Man- hours
6. Component and system replacement intervals per operating conditions
 - Kind of job
 - Environments
 - Handling materials
 - Operating methods



For Customer;

Please contact the nearest Komatsu distributor with your specific model, application and requirements.

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SECTION **16**

UNIT CONVERSION TABLES

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Unit Conversion Tables 16-2

a. Length

Centimeter (cm)	Meter (m)	Inch (in)	Foot (ft)	Yard (yd)	Mile (M)	Kilometer (km)
1	0.01	0.3937	0.03281	0.01094	1	1.6093
100	1	39.37	3.281	1.0936	0.6214	1
2.540	0.0254	1	0.8333	0.02778		
30.48	0.3048	12	1	0.3333		
91.44	0.9144	36	3	1		

b. Space

Sq. meter (m ²)	Sq. Inch (in ²)	Sq. foot (ft ²)	Sq. yard (yd ²)
1	1550	10.764	1.1960
0.0 ₃ 6452	1	0.0 ₂ 6944	0.0 ₃ 7716
0.09290	144	1	0.11111
0.8361	1296	9	1

c. Volume

Cu. meter(m ³)	Cu. inch(in ³)	Cu. foot(ft ³)	Cu. yard(yd ³)	Imperial Gal	U.S. Gal	Cu. Inch	Liter
1	61024	35.31	1.3079	1	1.201	177.4	4.546
0.0 ₄ 1639	1	0.0 ₃ 5787	0.0 ₄ 2143	0.8327	1	231	3.785
0.02832	1728	1	0.037037	0.0 ₂ 3605	0.0 ₂ 4329	1	0.01639
0.76455	46656	27	1	0.2200	0.2642	61.02	1

d. Weight

Kilogram (kg)	Pound (lb)	Metric Ton (French Ton)	Short Ton (U.S. Ton)	Long Ton (English Ton)	Newton (N)
1	2.2046	0.001	0.0011023	0.0 ₃ 9842	9.80665
0.4536	1	0.0 ₃ 4536	0.0 ₃ 5	0.0 ₃ 4464	4.448
1000	2204.6	1	1.1023	0.9842	9806.65
907.1	2000	0.9072	1	0.8929	8896.5
1016	2240	1.016	1.120	1	9964
0.10197	0.2248	0.0 ₃ 1019	0.0 ₃ 1124	0.0 ₃ 1004	1

e. Pressure

BAR	Kilogram/sq.cm (kg/cm ²)	Pound/sq.in (PSI)	Long ton/sq.ft (Ton/ft ²)	Pascal (Pa)
1	1.0197	14.50	0.9324	100000
0.9807	1	14.22	0.9144	98066.5
0.06895	0.07031	1	0.06429	6895
1.0725	1.0937	15.56	1	107250
0.00001	0.00001020	0.000145	0.0000932	1

f. Velocity

m/sec	km/h	ft/sec.	MPH
1	3.6	3.281	2.237
0.2778	1	0.9113	0.6214
0.3048	1.097	1	0.6818
0.4470	1.609	1.467	1

g. Horsepower

PS	HP	kW	kg.m/s	kCal
1	0.986	0.736	75	0.1757
1.014	1	0.746	76.07	0.1782
1.3592	1.3405	1	101.97	0.2389
0.01333	0.01315	0.009807	1	0.002343
5.6902	5.611	4.186	426.9	1

h. Torque

kg.m	ft.lb	N.m
1	7.233	9.807
0.1383	1	1.356
0.1020	0.7375	1

i. Temperature

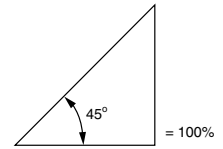
32°F = 0°C, -459.67°F = -273.15°C, 1°F = 0.5556°C

°F	°C	°F	°C	°F	°C	°F	°C
-450	-267.78	5	-15.00	55	12.78	150	65.56
-400	-240.00	10	-12.22	60	15.56	200	93.33
-350	-212.22	15	-9.44	65	18.33	250	121.11
-300	-184.44	20	-6.67	70	21.11	300	148.89
-250	-156.67	25	-3.89	75	23.89	350	176.67
-200	-128.89	30	-1.11	80	26.67	400	204.44
-150	-101.11	35	1.67	85	29.44	450	232.22
-100	-73.33	40	4.44	90	32.22	500	260.00
- 50	-45.56	45	7.22	95	35.00	550	287.78
0	-17.78	50	10.00	100	37.78	600	315.56

°F	1	2	3	4	5	6	7	8	9
°C	0.556	1.111	1.667	2.222	2.778	3.333	3.889	4.444	5

Example: To convert 92°F into °C
 90°F = 32.22°C, 2°F = 1.111°C, 90°F+2°F = 33.33°C

j. Angles of Gradient



Angles of gradient	%	Angles of gradient	%	%	Angles of gradient	%	Angles of gradient
1°	1.75	26°	48.77	1	0°34'	26	14°34'
2	3.49	27	50.95	2	1°00'	27	15°00'
3	5.24	28	53.17	3	1°43'	28	15°39'
4	6.99	29	55.43	4	2°18'	29	16°10'
5	8.75	30	57.74	5	2°52'	30	16°42'
6	10.51	31	60.09	6	3°26'	31	17°13'
7	12.28	32	62.49	7	4°00'	32	17°45'
8	14.05	33	64.94	8	4°34'	33	18°16'
9	15.84	34	67.45	9	5°09'	34	18°47'
10	17.63	35	70.02	10	5°43'	35	19°17'
11	19.44	36	72.65	11	6°17'	36	19°48'
12	21.26	37	75.35	12	6°51'	37	20°18'
13	23.09	38	78.13	13	7°25'	38	20°48'
14	24.93	39	80.98	14	7°58'	39	21°18'
15	26.80	40	83.91	15	8°32'	40	21°48'
16	28.67	41	86.93	16	9°05'	41	22°18'
17	30.57	42	90.04	17	9°39'	42	22°47'
18	32.49	43	93.25	18	10°12'	43	23°16'
19	34.43	44	96.57	19	10°45'	44	23°45'
20	36.40	45	100.00	20	11°19'	45	24°14'
21	38.39	46	103.35	21	11°52'	46	24°42'
22	40.40	47	107.24	22	12°24'	47	25°10'
23	42.45	48	111.06	23	12°57'	48	25°39'
24	44.52	49	115.04	24	13°30'	49	26°06'
25	46.63	50	119.08	25	14°02'	50	26°34'

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