

LOADER SPECIFICATIONS

L-2350

160,000 lbs (72,574 kgs) 53 yd³ (40.52 m³)
Standard Operating Capacity



Note: Optional equipment shown in photo.



LeTourneau, Inc.



POWER MODULE

DIESEL POWER OPTIONS

DETROIT DIESEL ENGINE

Model	Series 4000
Type	4-Cycle Turbocharged/Aftercooled
Rated Power	2300 HP (1715 kW @ 1900 RPM)
Cylinders	Sixteen (16)
Bore and Stroke	6.5 in. X 7.5 in. (165 mm X 190 mm)
Displacement	3967 cu. in. (65.0 liters)

CUMMINS DIESEL ENGINE

Model	QSK 60
Type	4-Cycle Two Stage (Twin) Turbocharged/Aftercooled
Rated Power	2300 HP (1715 kW @ 1900 RPM)
Cylinders	Sixteen (16)
Bore and Stroke	6.26 in. X 7.48 in. (159 mm X 190 mm)
Displacement	3672 cu. in. (60.2 liters)

RADIATOR/OIL COOLER

Model	Replaceable Tube Type, Split Flow Side By Side
Type	Thermostatically Controlled, Independent Hydraulic Motor-Driven Radiator Fan
Fan Speeds	Variable
Capacity	130 gals (492 l)

AIR FILTRATION

LeTourneau Self Cleaning KLENZ™ System
99.9% Efficiency Filtered Down to 0.3 Microns
Supply Filtered Air For:

Engine Air
Drive System Cooling
Pressurized Cab

EXHAUST SYSTEM

Low Restriction Mufflers With Top, Rear Hood Discharge



CONTROL SYSTEM-LINCS™

LeTourneau Integrated Network Control System - LINCS™

Microprocessor Based Full Digital Control and Monitoring
• Hydraulics • Electrics • Engine • Traction Drive
Modular Design
Built-in Diagnostics • Dash Display and Keypad
Solid State AC-DC Phase Controlled Traction Drive
No Contactors or Power Switch Gear
Infinitely Variable Speed Control



PROPULSION SYSTEM

Batteries	Four (4) 12-Volt
Model	8D
Starter(s)	Two (2) Delco-Remy 50 MT Type 400
Alternator	240 Amp With Integral Voltage Regulator

A.C. GENERATOR

Model	LeTourneau 12C Generator
Type	Alternating-Current, 3-Phase, 4-Pole
Excitation	Solid State
Feature	Standby Power Capability

TRACTION MOTORS

Model	LeTourneau J2 Traction Motor
Type	Direct-Current, 4-Pole, Shunt-Wound,
Number	Four (4)

DRIVE GEARING

Model	LeTourneau 57
-------	---------------

In-line gear train mounted within the rim of the tire, transmitting power from the traction motor to the tire/rim assembly.

Each drive unit consists of a planetary gear train, hub structure, spindle structure, primary gearbox, and a bearing carrier assembly.

Total Reduction	99:1
-----------------	------

DRIVE SYSTEM COOLING AIR

Function	Filtered Inlet Air Cools Control Box, A.C. Generator And Traction Motors
Blower	Backward Inclined Blade Fan
Drive	Hydraulic Motor



TIRES

STANDARD

Front And Rear Tires	70/70-57 82 PR
Rims	60X57



TRAVELING SPEED

INFINITELY VARIABLE

Forward And Reverse	0-10.5 mph (0-16.9 Kph)
---------------------	-------------------------



OPERATING CAPACITIES, WEIGHTS AND DIMENSIONS

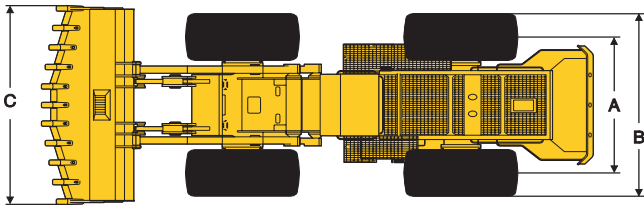
STANDARD LIFT

DIMENSIONS

Bucket Capacity	53 yd ³	(40.52 m ³)
Operating Payload	160,000 lbs	(72,574 kgs)
Bucket Width	22 ft. 4 in.	(6.80 m)
Bucket Width with Deflectors	25 ft. 6 in.	(7.77 m)
Hinge-Pin Height	32 ft. 6 in.	(9.9 m)
Dump Clearance 45° Discharge	24 ft. 0 in.	(7.3 m)
Reach @ Full Lift 45° Discharge	11 ft. 2 in.	(3.40 m)
Digging Depth	0 ft. 6 in.	(0.15 m)
Height - Bucket Fully Raised	43 ft. 9 in.	(13.33 m)
Ground Clearance	1 ft. 6 in.	(0.46 m)
Overall Length Bucket Down	66 ft. 2 in.	(20.16 m)
Overall Length Carry Position	63 ft. 6 in.	(19.35 m)
Wheel Base	25 ft. 10 in.	(7.87 m)
Tread	16 ft. 5 in.	(5.00 m)
Width Outside Tires	22 ft. 2 in.	(6.76 m)
Height Over Cab	21 ft. 0 in.	(6.4 m)
Static Tipping Loads		
Straight	308,276 lbs	(139,832 kgs)
Full 45° Turn	274,023 lbs	(124,295 kgs)
Breakout Force	289,000 lbs	(129,730 kgs)
Operating Weight	578,000 lbs	(262,176 kgs)

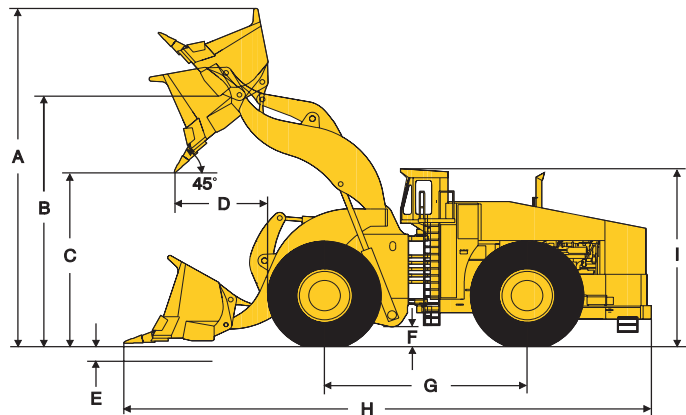


STANDARD CONFIGURATION



Top View

(A)	16 ft. 5 in.	(5.0 m)
(B)	22 ft. 2 in.	(6.76 m)
(C)	22 ft. 4 in.	(6.81 m)



Side View

(A)	43 ft. 9 in.	(13.3 m)
(B)	32 ft. 6 in.	(9.9 m)
(C)	24 ft. 0 in.	(7.3 m)
(D)	11 ft. 2 in.	(3.40 m)
(E)	0 ft. 6 in.	(.15 m)
(F)	1 ft. 8 in.	(.5 m)
(G)	25 ft. 10 in.	(7.87 m)
(H)	66 ft. 2 in.	(20.16 m)
(I)	21 ft. 0 in.	(6.4 m)



ELECTRICAL AND MECHANICAL BRAKING

PRIMARY BRAKING SYSTEM

Electric Braking (Retarding) is designed as the primary braking system which can be controlled from the accelerator or retard/brake pedal. This solid-state, non-wearing parts braking system will bring the loader to a full stop without application of the air-operated disc brakes used for backup.

EMERGENCY AND PARKING BRAKE SYSTEM

Armature speed disc brakes, spring-actuated air release, automatic actuation on all four wheels in the event of pressure loss.



FRAME

The unique LeTourneau box structure frames are fabricated from high-strength, low-alloy steel with excellent weldability and low temperature properties throughout. The front axle is an integral, fixed part of the frame. The rear axle is allowed to oscillate a total of +/-11 degrees on the rear frame.

The independent power module mounting system is cradled within the rear frame by a three-point isolation system.



INDEPENDENT STEERING AND HOIST SYSTEMS

ARTICULATED POWER STEERING

Joystick controlled articulation - full-time hydrostatic power steering. Constant engine RPM provides full steering response regardless of vehicle speed.

Operating Pressure	3400 PSI	(23,426 kPa)
Articulation Angle	42° Each Side	
Turning Radius	48 ft. 3 in.	(14.7 m)

HOIST AND BUCKET CONTROL

Both hoist and bucket control functions are incorporated into a single joystick control. Hydraulic metered pilot-controlled hoist system is independent of the steering system utilizing single stage, double-acting cylinders mounted outside of the front frame.

Standard Cycle Times:

Hoist	16 Seconds
Dump	3 Seconds
Float	6 Seconds
Total Time	25 Seconds

Please Note: There is no High Lift on The L-2350



HYDRAULIC SYSTEM

PUMP DRIVE BOX

LeTourneau, Inc. Gearbox
Wet Spline Design with Pressurized And Filtered Lubrication

Ratio 1:1

PUMPS

Main	Piston (4)	500 GPM	(1419 l/min)
Steering	Piston	90 GPM	(341 l/min)
Fan Drive	Piston	45 GPM	(170 l/min)
Blower	Piston	45 GPM	(170 l/min)
Accessory	Piston	14 GPM	(64 l/min)
Cooling System			
Circulating Pump	Vane	110 GPM	(417 l/min)

VALVES

Main	Three (3)	185 GPM	(700 l/min)
	Relief Pressure	4000 PSI	(27579 kPa)
Steering	One (1)	90 GPM	(341 l/min)
	Relief Pressure	3400 PSI	(23426 kPa)

CYLINDERS

Double-Acting, Single-Stage

Hoist	Diameter And Stroke (Standard) 16 in. X 83 in. (406 mm X 2108 mm)
Bucket	Diameter And Stroke (Standard) 12.5 in. X 42.75 in. (317.5 mm X 1085 mm)
Steering	Diameter And Stroke 7.5 in. X 30.0 in. (191 mm X 762 mm)

FILTERS

Full System	Return-Flow	10 Micron Absolute
Drivers		10 Micron Absolute
Gearbox		10 Micron Absolute
Pump (Case Drain)		10 Micron Absolute



GENERAL SERVICE DATA

FLUID CAPACITIES

Fuel Tank	1050 gals	(3975 l)
Hydraulic Tank	382 gals	(1,446 l)
Cooling System	130 gals	(492 l)
Crankcase (Includes Filters)		
Detroit Diesel	66 gals	(250 l)
Gearbox	7 gals	(27 l)
Drivers (Each)	25 gals	(95 l)



OPERATOR ENVIRONMENT

CAB

Spacious, ergonomically designed operator's cab features a low interior sound level and is mounted directly over the center articulation point, providing excellent visibility. Joystick controlled steering comes standard along with the unique LeTourneau single joystick boom and bucket controls. Climate control vents are strategically located throughout the cab. The joystick operator's bucket seat has adjustable air suspension along with retractable seat belts.



STANDARD FEATURES

STANDARD GAUGES AND INDICATORS

Engine Coolant Temperature Gauge
 Engine Lube-Oil Pressure Gauge
 Fuel Level Gauge
 Hour Meter
 Speedometer
 System Air Pressure Gauge

STANDARD INDICATOR LIGHTS AND AUDIBLE ALARMS

The operator is informed of a potential problem by an audible alarm and text messages on a computer display. The digital display also provides repair technicians with operational data and fault messages in the event of a mechanical, electrical or electronic malfunction.

Three warning lights immediately advise the operator of the severity/condition of various engine, hydraulic, electrical and electronic systems of the loader (RED, AMBER and BLUE).

STANDARD EQUIPMENT

Access Ladder Light Kit
 Air Cleanout Hose in Cab
 Air Conditioning, Filtered And Pressurized
 Air Dryer System
 Air Horn
 Air Tank Bleed Kit
 Automatic Adjustable Lift Height Cut Off
 Automatic Bucket Leveling Device
 Automatic Cabinet Lights
 Automatic Lubrication System
 Backup Alarm, Audible
 Battery Disconnect Switch
 Cigar/Cigarette Lighter
 Convex Mirrors
 Dual Door Interlock Kit
 Emergency Stop - Cab and Remote Mounted
 Engine Compartment Light
 Five (5) Gallon Windshield Washer Reservoir
 FOPS, Falling Object Protection System
 Ground Fault Electrics
 Heater-Defroster, High-Output
 HID Headlights
 High, Low Idle Switch
 Idle Timer
 Illuminated Instrument Panel
 Interior Lights
 Joystick Hoist and Bucket Controls
 Joystick Steering
 Ladder Walkway-Rear Access With Retracting Ladder
 LINCSTM - LeTourneau Integrated Network Control System
 Manual Fire Extinguisher, 21 lbs (9.53 kgs)
 Maintenance Lock-Out Switch
 Mirror, Rearview (Parabolic) (2)
 LINCSTM Alarm
 Parking Brake
 Rear Tow Hitch
 Rock Deflectors (Bucket)
 ROPS, Rollover Protective Structure
 Seat Belt
 Standby Power Capability
 Sun Visor
 Tinted Safety Glass Throughout
 Turn Signals
 Twelve (12) Volt Power Supply (Cab)
 Windshield Wiper And Washer, Front And Rear
 Work Lights, 110 Volt - 500 Watt (4) Front (2) Rear



OPTIONAL FEATURES

Auxiliary Oil Cooler
 Auxiliary Steering System
 Central Service With Fast Fuel
 Electric Cab Heater
 Engine Heating System, Oil And Water
 Fast Fuel
 Fluid Sampling Kit
 Grease Reservoir Heater
 Hydraulic Tank And Battery Heater
 Jump Start Kit
 Manual Fire Detection And Suppression System
 Remote Monitoring System
 Standby Power



BUCKETS

STANDARD, SAE-RATED CAPACITY: 160,000 LBS (72,574 KGS)

	<u>Rock</u>	<u>Coal</u>	<u>Iron Ore</u>
BUCKET SIZE	53 yd ³ (40.52m ³)	85 yd ³ (64.98m ³)	33 yd ³ (25.23m ³)



BUCKET HARDWARE OPTIONS

Teeth and Lip Options Available
 Lip Wear Protection And Teeth
 Skid Plates - Replaceable
 Wear Liner Kits

For additional bucket sizes and hardware options consult your LeTourneau, Inc. dealer representative.



SAFETY CERTIFICATION

Meets the following MSHA, SAE and ISO Safety Standards:

Brake Performance Test SAE J1473 / ISO 3450
 Capacity Rating - Loader Bucket SAE J742
 Exterior Sound Level SAE J88
 FOPS SAE J231 / ISO 3449
 Interior Sound Level SAE J919
 Rated Operating Load for Loaders SAE J818
 ROPS SAE J1040 / ISO 3471
 Steering Test SAE J1511 / ISO 5010

Please Note: Standard/Optional Equipment, Features and Performance conform to U.S. and International Codes as Required.

LeTourneau, Inc. has made every effort to make these specifications as accurate as possible at the time of printing. However, we reserve the right to make changes and improvements at any time without notice, in equipment, materials and specifications. To ensure the most current information, please contact your LeTourneau, Inc. dealer representative.



LeTourneau, Inc.

P.O. Box 2307 • Longview, TX 75606 • (903) 236-6598 • FAX (903) 236-6585
 www.letourneau-inc.com • email:equipment.sales@letourneau-inc.com