

# L-2350

## GENERATION 2

LeTourneau  
MINING  
PRODUCTS



<b>ENGINE</b>	2300 hp	1715 kW
<b>PAYLOAD</b>		
<b>STANDARD</b>	160000 lb	72574 kg
<b>HIGH LIFT</b>	150000 lb	68039 kg
<b>BUCKET CAPACITY</b>	sized to material density	
<b>TRUCK MATCH</b>	320 - 400+ ton	290 - 363+ tonne



## POWER MODULE

### DIESEL POWER OPTIONS

#### MTU DETROIT DIESEL ENGINE

Model	Tier One and Tier Two 16V Series 4000 16 cylinders
Type	4-cycle turbocharged
Rated Power	2300 hp (1715 kW) @ 1800 rpm

#### CUMMINS DIESEL ENGINE

Standard Model	Tier One and Tier Two QSK 60 16 cylinders
Type	4-cycle turbocharged
Rated Power	2300 hp (1715 kW) @ 1800 rpm

The independent power module mounting system, consisting of the engine coupled to the SR generator, is cradled within the rear frame by a three-point isolation system.

#### RADIATOR/OIL COOLER MODULE

- Replaceable tube type, side-by-side split flow
- Thermostatically controlled, variable speed hydraulic motor-driven, radiator-mounted fan
- Auxiliary oil cooler available for high ambient conditions

#### EXHAUST SYSTEM

Dual low restriction mufflers with vertical, mid-hood discharge

## AIR FILTRATION

#### PRIMARY

- LeTourneau Self Cleaning KLENZ™ Filtration System  
99.9% Efficiency Removing to 0.3 Microns (nominal)
- Extends maintenance intervals
  - Filtered air for engine, drive system cooling and pressurized cab

#### SECONDARY

Dual safety filters for engine

## CONTROL SYSTEM – LINCS II™

#### LeTOURNEAU INTEGRATED NETWORK CONTROL SYSTEM-LINCS II™

Next generation microprocessor based modular design Vehicle Control Unit with monitoring and diagnostics including integrated data logging and storage.

LINCS II™ uses a dash mounted full color touch screen display as the operator interface. Out of range conditions will cause an audible alarm along with a message screen that is color coded to indicate severity.

In addition, the touch-screen display provides repair technicians with operational data and fault messages.

#### LINCS II™ LOAD WEIGH

- Displays real-time load per pass, per truck and total loads
- Memory capable of retaining months of production information
  - Capable of interfacing with radio dispatch systems for real-time monitoring

## PROPULSION SYSTEM

LeTourneau Switched Reluctance (SR) Hybrid Technology Propulsion System

- Digital microprocessor controlled traction drive
- Switched Reluctance (SR) drive advantages include:
  - No commutator, brushes or rotor windings on SR motors or generator
  - Hybrid regenerative energy storage for improved fuel economy
  - Parts commonality - power conversion module identical for motor and generator

#### TRAVEL SPEED

Forward and reverse 0-12 mph (0-19.31 km/h)

#### GENERATOR

- LeTourneau G200 SR generator
- Switched Reluctance (SR)

#### TRACTION MOTORS

- LeTourneau B60 SR motor
- SR all wheel drive (independent SR motor for each wheel)

#### DRIVE GEARING

- |       |               |
|-------|---------------|
| Model | LeTourneau 57 |
|-------|---------------|
- In-line gear train mounted within the rim of the tire, transmitting power from the traction motor through the tire/rim assembly.
  - A four-stage planetary drive unit in each position
  - Total reduction 99:1

## BRAKING SYSTEM

#### PRIMARY BRAKE SYSTEM

Electric dynamic braking system is controlled from the accelerator pedal and can bring the loader to a full stop without application of mechanical brakes.

#### SECONDARY BRAKE SYSTEM

- Air modulated traction motor speed disc brakes
- Single disc and caliper on each traction motor
  - Emergency fail safe brakes are spring applied in the event of air pressure loss

#### PARKING BRAKE SYSTEM

Spring applied, air release traction motor speed disc brakes

## STEERING AND HOISTING SYSTEM

#### STEERING

Steering function is controlled by a single joystick. LeTourneau's constant engine rpm assures full hydraulic steering response.

- |                      |              |         |
|----------------------|--------------|---------|
| • Articulation angle | R-42°, L-41° |         |
| • Turning radius     |              |         |
| • Standard Lift      | 63 ft 9 in   | 19.43 m |
| • High Lift          | 64 ft 0 in   | 19.52 m |

#### HOIST AND BUCKET CONTROL

Hoist and bucket control functions are incorporated into a single joystick control. The proportional electro-hydraulic controlled hoist and bucket system is independent of the steering system.

Standard/High Lift Cycle Times:

Hoist	17 Seconds
Dump	3 Seconds
Float	6 Seconds



## HYDRAULIC SYSTEM

### HPD DRIVE BOX

- Wet spline design with pressurized, cooled, and filtered lubrication
- Ratio 1:1

### PUMPS (Maximum flow rate at 1800 rpm)

Main	Piston (4)	494 gpm	1872 L/min
Steering	Piston	89 gpm	342 L/min
Fan Drive	Piston	45 gpm	171 L/min
Blower	Piston	45 gpm	171 L/min
Accessory	Piston	21 gpm	81 L/min
Cooling System			
Circulating Pump	Vane	108 gpm	409 L/min
Aux. Cooling (optional)	Piston	21 gpm	81 L/min

### VALVES

Main	Three (3)	185 gpm	700 L/min
	Pump Pressure	4000 psi	27579 kPa
Steering	One (1)	90 gpm	341 L/min
	Pump Pressure	3400 psi	23426 kPa

### CYLINDERS

Double-acting, single-stage (diameter and stroke), (standard and high lift)

- Hoist 16 in x 83 in 406 mm x 2108 mm
- Bucket 12.5 in x 42.75 in 317.5 mm x 1085 mm
- Steering 9.5 in x 30 in 191 mm x 762 mm

## STRUCTURAL

LeTourneau frames are fabricated from high strength, low-alloy steel with excellent weld characteristics and extreme low temperature properties. The front axle is an integral, fixed part of the front frame. The rear axle center oscillates 12.5 degrees.

Unique LeTourneau forged ball and socket joints are utilized in multiple pivot locations (lift arms, rear axle, frame articulation, hoist cylinders). These joints are superior in absorbing and distributing multi-directional stresses. Features easily replaceable brass liners for long life and easy maintenance.

High strength castings are used in key areas of fabricated structures to reduce stress and improve structural life.

## STANDARD FEATURES

### TIRES/RIMS

- Tires 70/70-57
- Rims 60 x 57 with 6" flange

### STANDARD EQUIPMENT

- Access Ladder Lights
- Air Clean-Out Hose In Cab
- Air Conditioning / Heater-Defroster (Filtered and Pressurized)
- Air Dryer System
- Air Horn
- Air Tank Bleed System
- Adjustable Automatic Lift Height Cut Off
- Automatic Bucket Leveling Control
- Automatic Electrical Cabinet Lights
- Automatic Lubrication System
- Back-up Alarm, Audible
- Battery Disconnect Switch
- Brake Lights
- Central Air Regulator Box
- Data Analysis and Viewing Software
- Data Logging - Downloadable Production and Maintenance Logs
- Door Interlock on Electrical Cabinet
- Drawbar with tow points
- Emergency Stop Buttons (Cab and Remote Mounted)

- Engine Compartment Lights
- Fire Extinguisher, Manual, 20 lb (9.07 kg)
- FOPS - Falling Object Protection System
- Idle Timer
- Interior Lights
- Isolation Monitor
- Joystick Hoist and Bucket Control
- Joystick Steering Control
- Jump Start
- Ladder Walkway (Rear Access w/Retracting Ladder)
- LED Working Lights (10 Forward, 2 Rear)
- LINCS II™ Alarms
- LINCS II™ Load Weigh & Monitoring
- Mirrors, Rearview (Parabolic)(2)
- Operator Seat (11-Way Adjustable)
- Overspeed Alarm
- Parking Brake
- Retractable Lap Belt with Shoulder Harness
- Rock Deflectors (Bucket)
- ROPS - Rollover Protection Structure
- Selectable Throttle Switch
- Starter Disconnect Switch
- Sun Visor
- Tinted Safety Glass Throughout
- Turn Signals
- Twelve (12) Volt Power Supply In Cab
- Twelve (12) Volt Power Port (2)
- Walk Around Catwalk for Cab
- Windshield Washer Reservoir (2.6 gal)
- Windshield Wiper and Washer (Front & Rear)

## OPTIONAL FEATURES

- Auxiliary Hydraulic Oil Cooler
- Auxiliary Steering
- Beacon Light Kit
- Bucket GET Options Available
- Central Service with Fast Fuel
- Cold Weather Package- including:
  - Battery Heater
  - Engine Heating System (Oil and Water)
  - Grease Reservoir Heater
  - Hydraulic Tank Heater
- Fast Fuel
- Fire Detection and Suppression System (Manual)
- Fire Suppression System (Manual)
- Fluid Sampling Kit
- Lift Arms - High Lift
- Training Seat (with Lap Belt)
- Video Camera (Rear Mount)

## BUCKETS

STANDARD, ISO-RATED CAPACITY:  
160000 lb / 72574 kg

HIGH LIFT, ISO-RATED CAPACITY:  
150000 lb / 68039 kg

Both rock and coal bucket configurations are available  
Buckets sized to material density

## BUCKET HARDWARE OPTIONS

- Skid Plates (Replaceable)
- Lip Wear Protection
- Wear Liner Kits

For actual bucket configuration and sizing, consult your dealer representative.

# OPERATING CAPACITIES, WEIGHTS AND DIMENSIONS

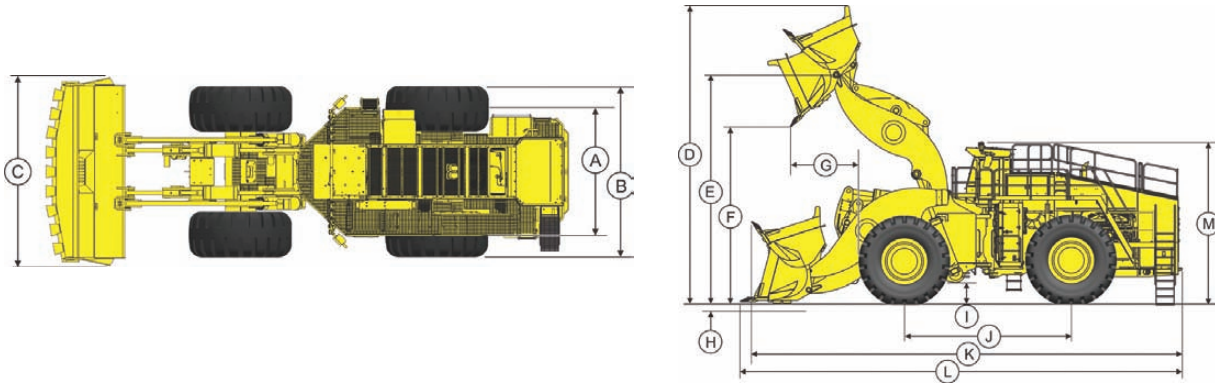
	STANDARD LIFT		HIGH LIFT	
	53 yd <sup>3</sup>	40.52 m <sup>3</sup>	50 yd <sup>3</sup>	38.23 m <sup>3</sup>
Bucket Capacity**	160000 lb	72574 kg	150000 lb	68039 kg
Operating Payload	406300 lb	184300 kg	362000 lb	164200 kg
Static Tipping Loads	Straight	379400 lb	338000 lb	153300 kg
	Full 42° Turn	172100 kg	289900 lb	1290 kN
Breakout Force	263702 lb	1173 kN	289900 lb	1290 kN
Operating Weight	587800 lb	266622 kg	599800 lb	272065 kg

\*\* Standard Rock Bucket based on a material density of 3000 lb/yd<sup>3</sup> (1780 kg/m<sup>3</sup>)

## FLUID CAPACITIES

Fuel	1305 gal	4940 L	
Hydraulic	382 gal	1446 L	
SR Converter Cooling System	41 gal	155 L	
Engine Cooling System	130 gal	492 L	
Crankcase (includes filters)	Detroit	66 gal	250 L
	Cummins	54 gal	204 L
	Gearbox	7 gal	27 L
Drivers (each)	25 gal	95 L	

## OPERATING DIMENSIONS



	STANDARD LIFT		HIGH LIFT	
(A) Tread	16 ft 5 in	5.0 m	16 ft 5 in	5.0 m
(B) Width Outside Tires	22 ft 2 in	6.76 m	22 ft 2 in	6.76 m
(C1) Rock Bucket Without Deflectors	23 ft 0 in	7.01 m	23 ft 0 in	7.01 m
(C2) Rock Bucket With Deflectors	24 ft 10 in	7.58 m	24 ft 10 in	7.58 m
(C3) Coal Bucket	27 ft 5 in	8.36 m	27 ft 5 in	8.36 m
(D) Height Bucket Fully Raised	43 ft 11 in	13.39 m	45 ft 7 in	13.89 m
(E) Hinge – Pin Height	32 ft 6 in	9.91 m	34 ft 9 in	10.59 m
(F) Dump Clearance	23 ft 1 in	7.03 m	26 ft 4 in	8.01 m
(G) Reach at Full Lift	10 ft 5 in	3.18 m	11 ft 5 in	3.49 m
(H) Digging Depth	0 ft 10 in	0.25 m	0 ft 10 in	0.25 m
(I) Ground Clearance	1 ft 8 in	0.50 m	1 ft 8 in	0.50 m
(J) Wheelbase	25 ft 10 in	7.88 m	25 ft 10 in	7.88 m
(K) Overall Length Carry Position	65 ft 2 in	19.87 m	65 ft 10 in	20.07 m
(L) Overall Length Bucket Down	66 ft 6 in	20.30 m	68 ft 7 in	20.90 m
(M) Height Over Cab	22 ft 10 in	6.71 m	22 ft 10 in	6.71 m

\* All dimensions are based on standard tires and standard rock bucket with GET unless otherwise noted.

# LeTourneau

MINING PRODUCTS

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Meets the following SAE and ISO Standards:

Braking Systems of Rubber Tired Machines SAE J/ISO 3450 • Loader Buckets Volumetric Ratings ISO 7546 • Sound Measurement Off Road Work Machines - Exterior SAE J 88

Earth Moving Machinery FOPS ISO 3449 • Sound Measurement Off Road Work Machines - Operator SAE J 919 • Rated Operating Load for Loaders SAE J 818

Earth Moving Machinery ROPS ISO 3471 • Earth Moving Machinery Steering Requirements ISO 5010

Please Note: Standard/Optional Equipment, Features and Performance conform to U.S. and International Standards as Required. LeTourneau Technologies, 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 dealer representative.

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