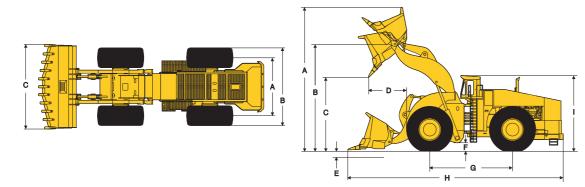
# **OPERATING CAPACITIES, WEIGHTS, AND DIMENSIONS**

	STANDARD LIFT		<u>H</u>	<u>HIGH LIFT</u>	
Bucket Capacity	53 yd <sup>3</sup>	(40.52 m <sup>3</sup> )	50 yd <sup>3</sup>	(38.23 m <sup>3</sup> )	
Operating Payload	160,000 lbs	(72,574 kgs)	150,000 lbs	(68,039 kgs)	
Bucket Width with Deflectors	24 ft 10 in	(7.58 m)	24 ft 10 in	(7.58 m)	
Bucket Width without Deflectors	23 ft 0 in	(7.01m)	23 ft 0 in	(7.01 m)	
Hinge-Pin Height	32 ft 6 in	(9.91 m)	34 ft 9 in	(10.59 m)	
Dump Clearance	23 ft 1 in	(7.03 m)	26 ft 4 in	(8.01 m)	
Reach @ Full Lift	10 ft 5 in	(3.18 m)	11 ft 5 in	(3.49 m)	
Digging Depth	0 ft 10 in	(.25 m)	0 ft 10 in	(.25 m)	
Height - Bucket Fully Raised	43 ft 11 in	(13.39 m)	45 ft 7 in	(13.89 m)	
Ground Clearance	1 ft 8 in	(.50 m)	1 ft 8 in	(.50 m)	
Overall Length Bucket Down	66 ft 6 in	(20.3 m)	68 ft 7 in	(20.9 m)	
Overall Length Carry Position	65 ft 2 in	(19.87 m)	65 ft 10 in	(20.07 m)	
Wheelbase	25 ft 10 in	(7.88 m)	25 ft 10 in	(7.88 m)	
Tread	16 ft 5 in	(5.0 m)	16 ft 5 in	(5.0 m)	
Width Outside Tires	22 ft 2 in	(6.76 m)	22 ft 2 in	(6.76 m)	
Height Over Cab	21 ft 2 in	(6.45 m)	21 ft 2 in	(6.45 m)	
Static Tipping Loads					
Straight	406,300 lbs	(184,300 kgs)	362,000 lbs	(164,200 kgs)	
Full 42° Turn	379,400 lbs	(172,100 kgs)	338,000 lbs	(153,300 kgs)	
Breakout Force	263,702 lbs	(119,613 kgs)	289,900 lbs	(131,500 kgs)	
Operating Weight	586,000 lbs	(265,805 kgs)	598,000 lbs	(271,250 kgs)	

# STANDARD CONFIGURATION



TOP V	<u>IEW</u>		SIDE VIEW	STANDA	ARD LIFT	HIG	H LIFT
(A)	16 ft 5 in	(5.0 m)	Bucket	53 yd <sup>3</sup>	(40.52 m <sup>3</sup> )	50 yd <sup>3</sup>	(38.23 m <sup>3</sup> )
(B)	(B) 22 ft 2 in (6.76 m)	(A)	43 ft 11 in	(13.39 m)	45 ft 7 in	(13.89 m)	
(C) 24 ft 10 in (7.58 m)	(B)	32 ft 6 in	(9.91 m)	34 ft 9 in	(10.59 m)		
			(C)	23 ft 0 in	(7.02 m)	26 ft 4 in	(8.01 m)
			(D)	10 ft 5 in	(3.18 m)	11 ft 5 in	(3.49 m)
			(E)	0 ft 10 in	(.25 m)	0 ft 10 in	(.25 m)
			(F)	1 ft 8 in	(.50 m)	1 ft 8 in	(.50 m)
			(G)	25 ft 10 in	(7.88 m)	25 ft 10 in	(7.88 m)
			(H)	66 ft 6 in	(20.28 m)	68 ft 7 in	(20.9 m)
			(1)	21 ft 2 in	(6.45 m)	21 ft 2 in	(6.45m)



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# 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 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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# **POWER MODULE**

### **DIESEL POWER OPTIONS**

### **DETROIT DIESEL ENGINE**

**Tier One** Tier Two Model 16V Series 4000 16V Series 4000 4-cycle turbocharged 4-cycle turbocharged Type 2300 HP (1715 kW) @ 1900 rpm 2300 HP (1715 kW) @ 1800 rpm Rated Power Bore and Stroke 6.5 in x 7.5 in 6.69 in x 8.27 in (170 mm x 210 mm) (165 mm x 190 mm) Displacement 3967 cu in (65.0 l) 4656 cu in (76.3 l)

### **CUMMINS DIESEL ENGINE**

Model QSK 60 4-cycle turbocharged 2300 HP (1715 kW) @ 1800 rpm Rated Power 6.26 in x 7.48 in **Bore and Stroke** (159 mm x 190 mm) Displacement 3661 cu in (60 l)

### **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**

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 systems cooling and pressurized cab

# **SECONDARY**

Dual safety filters for engine

### **EXHAUST SYSTEMS**

Dual low restriction mufflers with top 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
- Three levels of warning lights with audible alarm

### LINCS™ LOAD WEIGH

Integrated microprocessor based data logging and storage system Displays real time load per pass, per truck and total loads

- Alerts operator if overload occurs
- Stores several month's of production information
- Interfaces with radio dispatch systems for real-time monitoring

### **GAUGES AND INDICATORS**

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

# PROPULSION SYSTEM

• Solid-AC-DC Phase Controlled Traction Drive No Contactors or Power Switch Gear Infinitely Variable Speed Control

### **TRAVELING SPEED**

INFINITELY VARIABLE

Forward and reverse 0-10.5 mph (0-16.9 kph)

### **GENERATOR**

- LeTourneau 12C generator
- Alternating-current, 3-phase, 4-pole
- Solid-state controlled
- Standby power capability

### **TRACTION MOTORS**

- LeTourneau J2 traction motor four (4)
- Direct-current, 4-pole, shunt-wound

### **DRIVE GEARING**

#### LeTourneau 57 Model

- In-line gear train mounted within the rim of the tire, transmitting power from the traction motor to 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 may be controlled from the accelerator and/or brake pedal. Braking system brings the loader to a full stop without application of mechanical brakes.

### **SECONDARY BRAKE SYSTEM**

Air modulated motor speed disc brakes.

- Single disc and caliper per position
- Emergency fail safe brake mode is spring applied in the event of pressure loss.

### PARKING BRAKE SYSTEM

Spring applied, air release motor speed disc brakes.

The unique LeTourneau frames are fabricated from high-strength, low-alloy steel with excellent weld characteristics and low temperature properties. The front axle is an integral, fixed part of the frame. The rear axle oscillates a total of +/-6.5 degrees.

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

# STEERING AND HOISTING SYSTEM

# **STEERING**

Joystick controlled articulating frame, power steering. LeTourneau's constant engine rated RPM assures full hydraulic steering response regardless of the vehicle speed and operation.

 Operating pressure 3400 PSI (23,426 kPa) Articulation angle R-42°, L-41° Rear axle oscillation  $+/-6.5^{\circ}$ 

 Turning radius Standard lift 51 ft 2 in (15.60 m) High lift 51 ft 7 in (15.72 m)

# HOIST AND BUCKET CONTROL

Hoist and bucket control functions are incorporated into a simple joystick control. The proportional electro-hydraulic controlled hoist and bucket system is independent of the steering system utilizing single stage, double-acting cylinders.

# **Hydraulic Cycle Times Standard/High Lift:**

 Hoist 16 Seconds Dump 3 Seconds Float 6 Seconds

# HYDRAULIC SYSTEM

### **HPD GEAR BOX**

- Wet spline design with pressurized, cooled, 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	(27,579 kPa)
Steering	One (1)	90 GPM	(341 l/min)
	Relief Pressure	3400 PSI	(23,426 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 7.5 in x 30.0 in (191 mm x 762 mm)

# **GENERAL SERVICE DATA**

# **FLUID CAPACITIES**

<ul> <li>Fuel tank</li> </ul>	1050 gals	( 3975 l)
<ul> <li>Hydraulic tank</li> </ul>	382 gals	(1,446 l)
<ul> <li>Cooling system</li> </ul>	130 gals	(492 l)
<ul> <li>Crankcase (includes filters)</li> </ul>		
Detroit Diesel	66 gals	(250 l)
Cummins Engine	54 gals	(204 l)
<ul> <li>Gearbox</li> </ul>	7 gals	(27 l)
<ul> <li>Drivers (each)</li> </ul>	25 gals	(95 I)

# STANDARD FEATURES

# TIRES/RIMS

- Tires 70/70-57 82 PR
- Rims 60X57

# STANDARD EQUIPMENT

- Access Ladder Light Kit
- · Air Cleanout Hose in Cab
- Air Conditioning/Heater-Defroster Filtered and Pressurized
- Air Dryer System
- Air Horn
- Air Tank Bleed Kit
- · Automatic Adjustable Lift Height Cut Off
- Automatic Bucket Leveling Device
- Automatic Electrical Cabinet Lights
- · Automatic Lubrication System · Backup Alarm, Audible
- Battery Disconnect Switch
- Cigar/Cigarette Lighter
- · Dual Door Interlock Kit
- Drawbar with Tow Hitch
- Emergency Exit Removable Safety Window
- Emergency Stop Cab and Remote Mounted
- Engine Compartment Light
- Five (5) Gallon Windshield Washer Reservoir FOPS, Falling Object Protection System
- Ground Fault Electrics
- HID Headlights
- High, Low Idle Switch
- HID Work Lights (10 Forward, 2 Rear)

- Idle Timer
- Illuminated Instrument Panel
- Interior Lights
- · Joystick Hoist and Bucket Controls
- Joystick Steering
- Ladder Walkway-Rear Access with Retracting Ladder LINCS Alarm
- LINCS LeTourneau Integrated Network Control System
- Manual Fire Extinguisher, 20 lbs (9.07 kgs)
- Maintenance Lock-Out Switch
- Mirror, Rearview (Parabolic) (2)
- Operator Seat (9-way Adjustable)
- Over Speed Alarm
- Parking Brake
- Retractable Seat Belt and Shoulder Harness
- Rock Deflectors (Bucket)
- ROPS, Rollover Protective Structure
- Standby Power Capability
- Sun Visor
- Tinted Safety GlassThroughout (Thermopane)
- Turn Signals
- Twelve (12) Volt Power Supply (Cab)
- · Windshield Wiper and Washer, Front and Rear

• Fire Detection and Suppression System (Manual)

# OPTIONAL FEATURES

- Auxiliary Oil Cooler
- Auxiliary Steering
- Beacon Light Kit (Amber)
- Central Service with Fast Fuel • Engine Heating System (Oil and Water)
- Fast Fuel
- Fluid Sampling Kit
- Grease Reservoir Heater High Lift
- · Hydraulic Tank and Battery Heater Jump Start Kit
- · Remote Monitoring System
- Standby Power • Tires-70/70-57 82 PR
- Training Seat (w/Lapbelt)
- · Video Camera, Rear-Mounted

# BUCKETS

- STANDARD, SAE-RATED CAPACITY: 160,000 LBS (72,574 KGS) HIGH LIFT, SAE-RATED CAPACITY: 150,000 LBS (68,039 KGS)

Rock / Coal / Iron Ore Bucket sized to material density

# **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 dealer representative.