GATIONS LOADER

L-950





LeTourneau, Inc.



POWER MODULE

DIESEL POWER OPTIONS

DETROIT DIESEL ENGINE

16V 2000 Model

Type 4-Cycle Turbocharged

1050 HP (783 kW @ 1900 RPM) Rated Power

Sixteen (16) Cylinders Bore And Stroke 5.12 in. X 5.91 in. (130 mm X 150 mm)

1944 cu. in. (31.86 liters) Displacement

CUMMINS DIESEL ENGINE

Standard Model

4-Cycle Turbocharged/Aftercooled Type Rated Power 1050 HP (783 kW @ 1900 RPM)

Cylinders Twelve (12) Bore And Stroke 5.51 in. X 6.5 in. (140 mm X 190 mm) Displacement 1861 cu. in. (30.5 liters)

RADIATOR/OIL COOLER MODULE

Type Split Flow Side by Side

Thermostatically Controlled

Independent Hydraulic Motor-Driven

Radiator Fan 2-Speed

50 gals (190 liters) Cooling Capacity

AIR FILTRATION

Fan Speeds

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 Vertical, Mid-Hood Discharge



CONTROL SYSTEM-LINCS™

LeTourneau Integrated Network Control System - LINCSTM

Switched Reluctance (SR) Propulsion System

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

SR Drive Advantages Include: No Contactors, No Power Switch Gear,

and No Armatures or Brushes on Traction Motors

LINCS™ LOAD WEIGH

The LINCS™ load weigh unit is an integrated microprocessor based data logging and storage system. The system displays real time load per pass, per truck and total loads; as well as alerting the operator to overload conditions. It is capable of storing several months worth of loader production information. LINCS™ can interface with most radio dispatch systems for Real-Time monitoring.



PROPULSION SYSTEM

A.C. GENERATOR

Model LeTourneau 6-R A.C. Generator Alternating-Current, 3-Phase, 4-Pole Type

Excitation Solid State

TRACTION MOTORS

Model LeTourneau B40 Type Switched-Reluctance Number Four (4) - All Wheel Drive

DRIVE GEARING

Model LeTourneau 35A

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 three-stage planetary gear train, rotating hub structure, fixed spindle structure, and taper roller.

Total Reduction 95.6:1

Main bearings mounted on the spindle to support the rotating hub assembly.

DRIVE SYSTEM COOLING AIR

KLENZ™-Filtered Air Cools Electrical Control **Function** Boxes, A.C. Generator And Traction Motors

Blower Backward Inclined Blade Fan 2-Speed Hydraulically Driven Drive

24-VOLT ELECTRICAL

Four (4) 12-Volt Batteries

Model 4D Starter **24 VOLT**

120 Amp With Integral Voltage Regulator Alternator



TIRES

STANDARD

Front And Rear Tires 45/65-45 Bias Ply 46 PR L-5 Tread Rims

OPTIONAL

Front And Rear Tires 45/65-R45 Radial Tire



TRAVELING SPEED

INFINITELY VARIABLE

Forward And Reverse 0-15 mph (0-24.1 Kph)

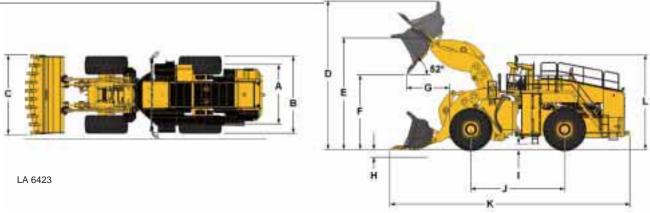


OPERATING CAPACITIES, WEIGHTS AND DIMENSIONS

	STANDARD		ніс	HIGH LIFT	
Bucket Capacity	18 yd ³	(13.76 m ³)	16 yd ³	(12.2 m ³)	
Operating Payload	54,000 lbs	(24,494 kgs)	48,000 lbs	(21,772 kgs)	
Bucket Width	16 ft 5 in.	(5.00 m)	16 ft 5 in.	(5.00 m)	
Bucket Width With Deflectors	18 ft 3 in.	(5.56 m)	18 ft 3 in.	(5.56 m)	
Hinge-Pin Height	22 ft 8 in.	(6.91 m)	24 ft 5 in.	(7.44 m)	
Dump Clearance 52° Discharge	15 ft 6 in.	(4.72 m)	17 ft 3 in.	(5.26 m)	
Reach @ Full Lift 52° Discharge	8 ft 7 in.	(2.61 m)	9 ft 0 in.	(2.74 m)	
Digging Depth	0 ft 6 in.	(0.15 m)	0 ft 6 in.	(0.15 m)	
Height - Bucket Fully Raised	30 ft 3 in.	(9.22 m)	32 ft 0 in.	(9.75 m)	
Ground Clearance	1 ft 10 in.	(0.56 m)	1 ft 10 in.	(0.56 m)	
Overall Length Bucket Down	49 ft 10 in.	(15.19 m)	51 ft 7 in.	(15.72 m)	
Overall Length Carry Position	48 ft 9 in.	(14.86 m)	50 ft 6 in.	(15.39 m)	
Wheelbase	19 ft 6 in.	(5.94 m)	19 ft 6 in.	(5.94 m)	
Tread	12 ft 3 in.	(3.73 m)	12 ft 3 in.	(3.73 m)	
Width Outside Tires	16 ft 0 in.	(4.88 m)	16 ft 0 in.	(4.88 m)	
Height Over Cab	19 ft 9 in.	(6.0 m)	19 ft 9 in.	(6.0 m)	
Static Tipping Loads:					
Straight	153,000 lbs	(69,400 kgs)	148,000 lbs	(67,133 kgs)	
Full 42° Turn	135,000 lbs	(61,236 kgs)	131,000 lbs	(59,421 kgs)	
Breakout Force	160,000 lbs	(712 kilonewtons)	165,000 lbs	(734 kilonewtons)	
Operating Weight	235,000 lbs	(106,594 kgs)	240,000 lbs	(108,862 kgs)	



STANDARD CONFIGURATION



Top View		Side View	STANDARD		HIGH LIFT		
(A) (B) (C)	12 ft 3 in. 16 ft 0 in. 16 ft 5 in.	(3.73 m) (4.87 m) (5.00 m)	(D) (E) (F) (G) (H) (I) (J)	Bucket 18 yd ³ 30 ft 3 in. 22 ft 7.5 in. 15 ft 6 in. 8 ft 7 in. 0 ft 8 in. 1 ft 10 in. 19 ft 6 in. 49 ft 10 in.	(13.00 m³) (9.22 m) (6.89 m) (4.72 m) (2.61 m) (0.19 m) (0.55 m) (5.94 m) (15.18 m)	Bucket 16 yd ³ 32 ft 0 in. 24 ft 5 in. 17 ft 3 in. 9 ft 0 in. 0 ft 6 in. 1 ft 10 in. 19 ft 6 in. 50 ft 4 in.	(12.3 m ³) (9.75 m) (7.44 m) (5.25 m) (2.73 m) (0.15 m) (0.55 m) (5.94 m) (15.33 m)
			(L)	19 ft 9 in.	(6.02 m)	19 ft 9 in.	(6.02 m)

All dimensions calculated with teeth on bucket.



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

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



FRAME

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

ARTICULATED POWER STEERING

Articulating frame - full-time joystick controlled power steering. The LeTourneau electric drive, with its constant-rated engine RPM, provides full steering response regardless of vehicle speed.

Operating Pressure 2500 PSI (17,238 kPa)
Articulation Angle 42° Each Side

Turning Radius

 Standard Lift
 32 ft 3 in.
 (9.84 m)

 High Lift
 35 ft 3 in.
 (10.75m)

HOIST AND BUCKET CONTROL

Both hoist and bucket control functions are incorporated into a simple 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/High Lift Cycle Times:

Hoist 10 Seconds
Dump 2 Seconds
Float 5 Seconds
Total Time 17 Seconds



PUMP DRIVE BOX

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

Ratio 1:1

PUMPS

Main Pumps (2) Piston Pump 250 GPM (946 l/min) Steering Vane Pump 90 GPM (340 l/min) Tandom Piston Pump 45/45 GPM (170/170 l/min) Fan/Blower Drive Cooling System Circulating Vane 110 GPM (416 l/min) Gearbox Lube 17 GPM (64 l/min)

VALVES

Main

Relief Pressure 3700 PSI (25,511 kPa)

Steering

Relief Pressure 2500 PSI (17,238 kPa)

CYLINDERS

Double-Acting, Single-Stage

Hoist Diameter And Stroke

(Standard and High Lift)

10 in. X 64.5 in. (254 mm X 1638 mm)

Bucket Diameter And Stroke

(Standard and High Lift)

10 in. X 25.5 in. (254 mm X 648 mm)

Steering Diameter And Stroke

7.5 in. X 30 in. (190 mm X 762 mm)

FILTERS

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

oist and bucket control functions are incorporated into a simple joy-



FLUID CAPACITIES

Fuel Tank		565 gals	(2,138 I)			
Hydraulic Tank		260 gals	(984 I)			
Cooling System		50 gals	(190 I)			
Crankcase (Includes Filters)						
	Cummins	35 gals	(132 l)			
	Detroit Diesel	25 gals	(94 I)			
Gearbox		5 gals	(19 I)			
Drivers (Each)		6.1 gals	(23 I)			



OPERATOR ENVIRONMENT

CAB

Spacious, ergonomically designed operator's cab is mounted directly over the center articulation point, assuring driver comfort and excellent visibility. The cab is independently elastomer-mounted separate from the ROPS structure, minimizing vibration and sound transmission. Only KLENZ™ filtered air enters the pressurized cab, which includes a combination high capacity air conditioning/ heater-defroster. The operator's seat is 9-way adjustable with air suspension and retractable seat belt. Standard features also include joystick steering, joystick hoist and bucket control, tinted thermopane glass, sun visor and full insulation for thermal and accoustical dampening.



STANDARD FEATURES

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 audible alarm and indicator lights in addition to text messages on an in-dash display. The digital display provides repair technicians with operational data and fault messages in the event of mechanical, electrical orelectronic 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

Air Clean-Out Hose In cab

Air Conditioning / Heater-defroster Filtered And Pressurized

Air Dryer System

Air Horn

Air Tank Bleed System

Automatic Adjustable Lift Height Cut Off

Automatic Bucket Leveling Control

Automatic Electrical Cabinet Lights

Automatic Lubrication System

Back-up Alarm, Audible

Battery Disconnect Switch

Brake Lights

Cigar / Cigarette Lighter

Electrical Cabinet Interlock

Emergency Stop Buttons - Cab and Remote Mounted

Engine Compartment Light

Fire Extinguisher, Manual, 21 lbs (9.53 kgs)

FOPS - Falling Object Protection System

Ground Fault Electrics

High, Low Idle Control Switch

Idle Timer

Illuminated Instrument Panel

Interior Lights

Joystick Hoist and Bucket Controls

Joystick Steering

LINCSTM - LeTourneau Integrated Network Control System

with Load Weigh & Full Vehicle Monitoring

Maintenance Lock-Out Switch

Mirrors, Rearview (Parabolic)(2)

Operator Seat - 9-Way Adjustable w/ Retractable Seat Belt

Overspeed Alarm

Parking Brake

Rear Vehicle Access

ROPS - Rollover Protection Structure

Sun Visor

Tinted Safety Glass Throughout (Thermopane)

Tow Hitch, Rear

Turn Signals

Twelve (12) Volt Power Supply

Windshield Washer Reservoir (5 gallons)

Windshield Wiper and Washer, Front & Rear

Work Lights, 110 Volt - 500 Watt (4) Front (2) Rear

OPTIONAL FEATURES

Auxiliary Steering System
Central Service with Fast Fuel
Engine Heating System, Oil and Water
Fast Fuel
Fire Detection System
Fluid Sampling Kit
Grease Reservoir Heater
Hydraulic Tank and Battery Heater
Jump Start Kit
L&M Mesabi Radiator
Manual Fire Suppression System
Remote Monitoring System



OPTIONAL QUICK CHANGE BUCKET SYSTEM

STANDARD, SAE-RATED CAPACITY: 48,000 LBS (21,769 KGS)

Rock Coal

Standard Lift 16 yd³ (12.3 m³) 24 yd³ (18.5 m³)

HIGH, SAE-RATED CAPACITY: 45,000 LBS (20,409 KGS)

Rock Coal

High Lift 15 yd^3 (10 m^3) 22 yd^3 (17 m^3)

The quick-change bucket has three hooks and two ears on the back of the bucket and a quick-change coupling system with hydraulic cylinders and a control valve on the coupler assembly. An experienced operator can change the bucket in less than five minutes.



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



BUCKET HARDWARE OPTIONS

Skid Plates - Replaceable Lip Wear Protection Wear Liner Kits

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

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.





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