



LT-1650 LOAD HAUL DUMP

GENERAL

MAIN DIMENSIONS

Total Length.....	41' (12751 mm)
Minimum Width.....	9'-10" (2998 mm)
Maximum Width.....	10'-9" (3277 mm)
Height at Cab.....	9'-7" (2921 mm)
Dump Height.....	21'-5" (6528 mm)

WEIGHTS

Operating Weight.....	128,200 lbs (58,151 kg)
Total Loaded Weight.....	164,200 lbs (74,480 kg)

AXLE WEIGHT WITHOUT LOAD

Front Axle.....	66,300 lbs (30,073 kg)
Rear Axle.....	61,900 lbs (28,078 kg)

AXLE WEIGHT WITH LOAD

Front Axle.....	114,357 lbs (51,871 kg)
Rear Axle.....	49,833 lbs (22,604 kg)

CAPACITIES

Tramming Capacity.....	36,000 lbs (16,330 kg)
Hydraulic Breakout Force Lift.....	51,710 lbs (23,455 kg)
Hydraulic Breakout Force Tilt.....	68,530 lbs (31,085 kg)
SAE Breakout Force.....	79,444 lbs (36,035 kg)
SAE static Tipping Load.....	112,675 lbs (51,109 kg)
Bucket.....	11.0 yd ³ (8.4 m ³)

DRIVING SPEEDS FWD & REV (0% GRADE)

1st Gear.....	4 mph (6.4 km/h)
2nd Gear.....	7 mph (11.3 km/h)
3rd Gear.....	12 mph (19.3 km/h)
4th Gear.....	21 mph (33.8 km/h)

TURNING RADIUS (C/W BUCKET)

Right Inner.....	8'-6" (2593 mm)
Right Outer.....	22'-3" (6780 mm)
Turning Angle.....	64 deg.

STRUCTURAL

Rear & Front Frames.....	Welded steel box construction
Material.....	ASTM A572 GR50 (CSA G40.21-50W)

HYDRAULICS

STEER/BUCKET HYDRAULICS

Variable displacement piston pumps with load sensing, closed center circuit design for optimal efficiency. Available oil flows from the steering/dump pump to hoist pump circuit to decrease cycle time. Single stage double-acting dual hoist cylinders with single stage double-acting dump cylinder. Steering uses two double-acting cylinders.

BUCKET MOTION TIMES (+/- 1 s)

Dump Time.....	5.0 s
Rollback Time.....	6.0 s
Raising Time.....	7.0 s
Lowering Time.....	4.0 s

ARTICULATION MOTION TIMES (+/- 1 s)

Turning Time Right.....	6.0 s
Turning Time Left.....	6.0 s

BRAKE SYSTEM

Service brakes are spring-applied, hydraulically-released, force cooled wet multi-disk brakes on all four wheel ends. The service brake in the wheel end also functions as an emergency brake.

ELECTRICAL EQUIPMENT

Alternator.....	24V/70A Bosch
Batteries.....	2 x 12VDC
Starter.....	24V Heavy Duty
Driving and Working Lights.....	5 Front / 4 Rear

OPTIONS

FOPS Canopy.....	Spare Tire & Rim
Fire Suppression System.....	Fire Extinguisher
Remote Control.....	A/C Unit
LED Lights.....	Rear Back-up camera system
ROPS Cab w/climate control.....	Remote brake release
Emergency steer system.....	

(Other options available upon request)

POWERTRAIN

General

Air Filtration.....	Donaldson, Dry Type
Exhaust System.....	Purimuffler
Fuel Tank Capacity.....	152 USG (576 litres)

Converter.....	Dana C9000 series
Lock-up.....	None

Transmission

Shifting.....	Dana 8000 Series
Speeds.....	Powershift c/w modulation
	4 Fwd/ 4 Rev

(Note: 4th gear locked out & optional lock out of 3rd gear available)

Axles

Differential.....	Kessler 111 Series
Brakes.....	Front and rear: Limited-slip
	SAHR, Forced Cooled
Oscillation Angle.....	+/- 10 deg.

Tires

Model.....	Radial (Bias optional)
Size.....	875/65R33

ENGINE OPTIONS

ENGINE	Detroit Diesel S60
CERTIFICATION	MSHA, EPA T2
DISPLACEMENT	12.7 litres
OUTPUT	475 hp (354 kW) @ 2100 rpm
MAX TORQUE	1550 ft-lbs (2101 Nm) @ 1350 rpm
NUMBER OF CYLINDERS	V6
TYPE OF COOLING	Liquid Cooled
COMBUSTION PRINCIPLE	EUI Injection, Turbocharged, Charge Air Cooled
ELECTRICAL SYSTEM	24 V
GOVERNOR	DDEC IV Electronics

