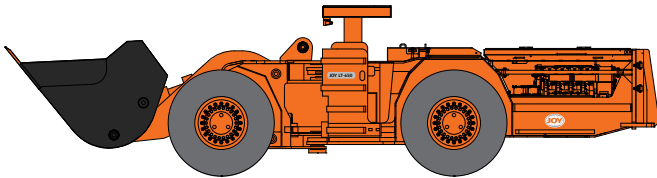




LT-650

Load Haul Dump



Capacities

Tramming Capacity	6,591 kg	14,500 lbs
Hydraulic Breakout Force Lift	11,531 kg	25,369 lbs
Hydraulic Breakout Force Tilt	16,398 kg	36,076 lbs
SAE Breakout Force	9,860 kg	21,693 lbs
SAE Static Tipping Load	19,600 kg	43,120 lbs
Bucket	3.1 m ³	4.0 yd ³

Weights

Operating Weight	19,671 kg	43,367 lbs
Total Loaded Weight	26,248 kg	57,867 lbs
Axle Weight without Load		
Front Axle	9,481 kg	20,901 lbs
Rear Axle	10,190 kg	22,466 lbs
Axle Weight with Load		
Front Axle	19,919 kg	43,913 lbs
Rear Axle	6,329 kg	13,954 lbs

Driving Speeds F & R (0% Grade) Loaded

1st Gear	3.9 km/h	2.4 mph
2nd Gear	7.9 km/h	4.9 mph
3rd Gear	13.4 km/h	8.3 mph

Bucket Motion Times (+/-1 s)

Dump Time	5.0 s
Rollback Time	3.5 s
Raising Time	4.0 s
Lowering Time	3.0 s

Articulation Motion Times (+/-1 s)

Turning Time: Right	3.0 s
Turning Time: Left	4.0 s

Powertrain

Engine	Cummins QSB 6.7
Output	164 kW (220 hp) @2200 rpm

General	
Air Filtration	Donaldson (dry type)
Exhaust System	DOC
Fuel Tank Capacity	276 litres 73 USG

Converter	Dana C320 series
Lock-up	None

Transmission	Dana 32000 series
Shifting	Powershift c/w modulation
Speeds	3 Forward / 3 Reverse

Axles	
Front & Rear	16D2149
Differential	No-Spin
Brakes	Spring-applied, hydraulically-released
Oscillation Angle	+/- 8 deg

Tires	Bias L5S
Size	17.50 x 25

Hydraulics

Bucket Hydraulics

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

Steering Hydraulics

Variable displacement piston pump with load-sensing, closed center circuit design. Monostick steering with single stage, double-acting steer cylinder.

Brake System

Service brakes are spring-applied, hydraulically-released, forced cooled, wet multi-disk brakes on all four wheel ends. The wheel end brakes also function as emergency and parking brakes.

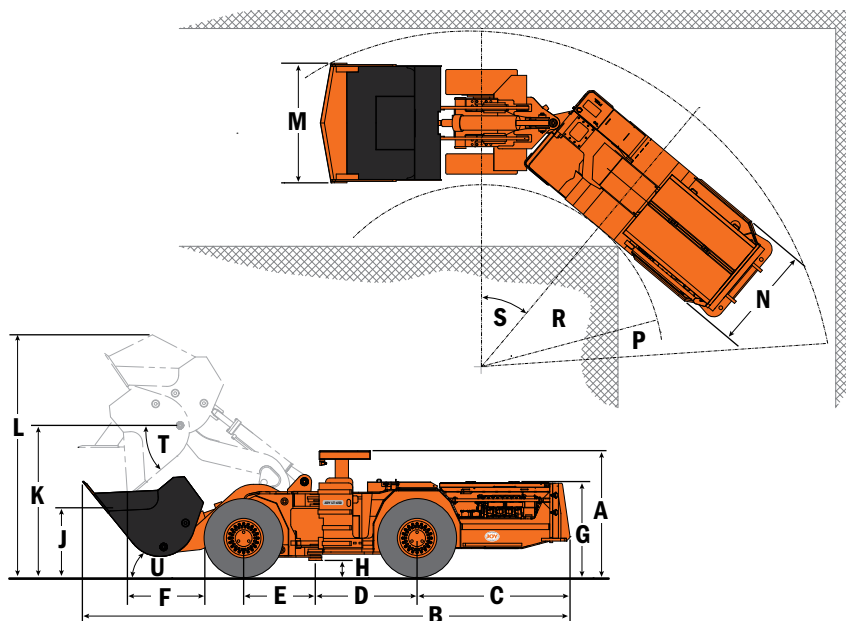
Hydraulic Tank Volumes	Hydraulic 170 litres	60 US Gal
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Electrical Equipment

Alternator	24V/75A Bosch
Batteries (24V System)	2 x 12V
Starter	24V heavy duty
Driving & Working Lights	2 Front / 2 Rear (LED)

Structural

Front & Rear Frames	Welded steel box construction
Material	A572 GR50 (CSA G40.21-50W)
Bucket	Ni-Basin cast cutting edge



Overall Dimensions

A	Height to top of canopy	2164 mm	7 ft 1.25 in
B	Tramming length	8947 mm	29 ft 4.25 in
C	Length - rear axle to bumper	2838 mm	9 ft 3.75 in
D	Centre hinge to rear axle	1804 mm	5 ft 11 in
E	Centre hinge to front axle	1270 mm	4 ft 2 in
F	Reach	1629 mm	5 ft 4.25 in
G	Height to top of hood	1698 mm	5 ft 6.75 in
H	Height - ground clearance	217 mm	8.5 in
J	Height - dump clearance	1091 mm	3 ft 7 in
K	Height - bucket pin	2609 mm	8 ft 6.75 in
L	Height - bucket raised	4113 mm	13 ft 6 in
M	Width - overall	2033 mm	6 ft 8 in
N	Max width RF	1997 mm	6 ft 6.5 in
P	Outside radius	6514 mm	R 21 ft 4.5 in
R	Inside radius	3618 mm	R 11 ft 10.5 in
S	Turn angle		36 deg
T	Dump angle		40 deg
U	Roll back angle		45 deg

Options

Automatic lube grease system	Fire suppression system
Cabin (air conditioned)	Quick attach
Canopy (FOPS/ROPS certified)	Optional bucket volumes
Ejecto bucket	Alternative tires
Electric transfer pump	Radio remote control
Exhaust wrap	Side dump bucket
	Spare rim

(Other options available – ask your Joy Global sales representative)

Engine Options

Engine	Certification	Displacement	Output	Maximum Torque	No. of Cylinders	Cooling Type	Combustion Principle	Electrical System	Governor
Cummins QSB 6.7	EPA Tier 3, MSHA	6.71 litres	164 kW (220 hp) @2200 rpm (MSHA)	949 Nm (700 ft-lbs) @1500 rpm	Inline 6	Liquid, charge air	Direct inject, turbo	24 VDC	Electronic
MTU MBE 906	EPA Tier 3, MSHA	6.37 litres	170 kW (228 hp) @2200 rpm (MSHA)	809 Nm (597 ft-lbs) @1200-1600 rpm	Inline 6	Liquid, charge air	Turbo, hp fuel inject	24 VDC	Electronic

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