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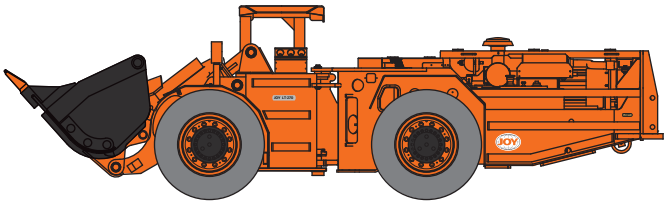
LT-270
Load Haul Dump



Capacities

Tramming capacity	2,722 kg	5,988 lbs
Hydraulic breakout force lift	6,043 kg	13,295 lbs
Hydraulic breakout force tilt	5,372 kg	11,818 lbs
SAE breakout force	4,735 kg	10,417 lbs
SAE static tipping load	9,662 kg	21,256 lbs
Bucket	1.2 m^3	1.6 yd^3

Weights

Operating weight	9,570 kg	21,054 lbs
Total loaded weight	12,290 kg	27,038 lbs
Axle weight without load		
Front axle	3,983 kg	8,763 lbs
Rear axle	5,587 kg	12,291 lbs
Axle weight with load		
Front axle	8,171 kg	17,976 lbs
Rear axle	4,119 kg	9,062 lbs

Driving speeds F and R (0% grade) loaded

1st gear	3.5 km/h	2.2 mph
2nd gear	6.9 km/h	4.3 mph
3rd gear	18.0 km/h	11.2 mph

Bucket motion times (+/-1 s)

Dump time	5.0 s
Raising time	3.0 s
Lowering time	2.0 s

Articulation motion times (+/-1 s)

Turning time: right	2.5 s
Turning time: left	3.0 s

Structural

Front and rear frames	Welded steel box construction
Material	ASTM A572 GR50 (CSA G40.21-50W)
Bucket	Joy EZ-fill cast cutting edge

Powertrain

Engine	Cummins QSB 3.3
Output	74 kW (99 hp) @2200 rpm
General	
Air filtration	Donaldson (dry type)
Exhaust system	Doc with Silencer Standard / DPF optional
Fuel tank capacity	140 litres 37 USG
Converter	Dana C2000 series
Transmission	Dana T20000 powershift with modulation
Shifting	Electric
Speeds	3 forward / 3 reverse
Axles	
Front and rear	Dana182
Differential	No-spin
Brakes	SAHR Brakes
Oscillation angle	+/- 7 deg
Tires	Bias L5S
Size	9.50 x 20

Hydraulics

System design

Variable displacement piston pump with load sensing open loop circuit design for optimal efficiency. Proportional hydraulic valve with closed centre spool with priority steering, shock valves and load sense relief valves.

Bucket/boom control

Single 2 axis proportional pilot hydraulic joystick

Steering Control

Single 1 axis proportional pilot hydraulic joystick

Bucket dump cylinder

One (1), double acting, single stage

Boom hoist cylinder

Two (2), double acting, single stage

Steer cylinder

One (1), double acting, single stage

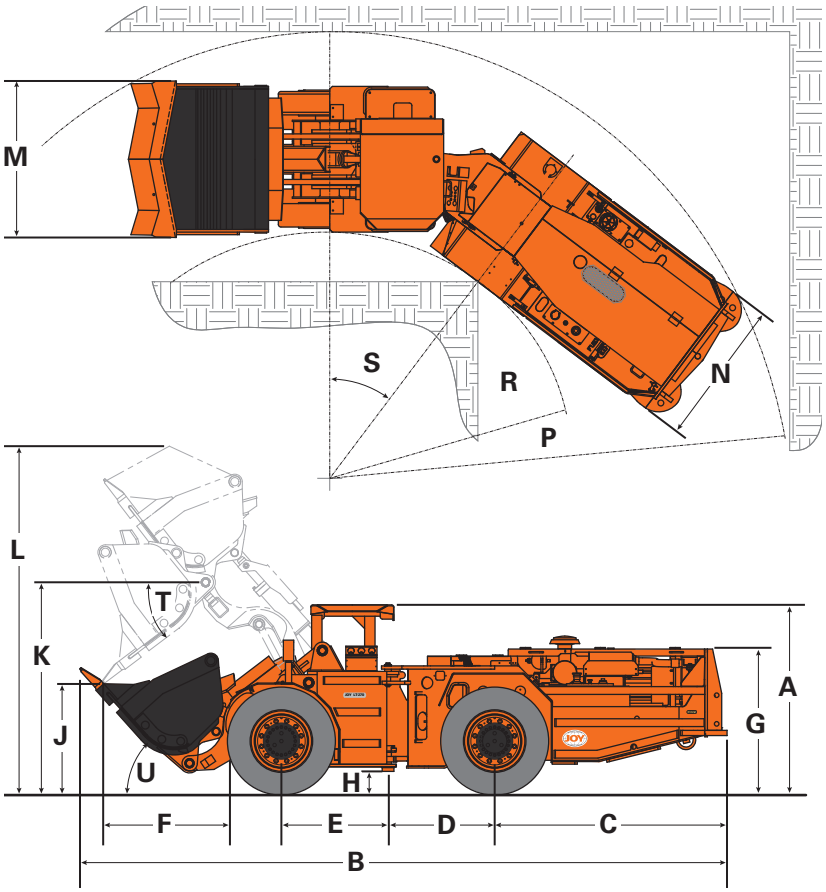
Brake system

Service brakes are enclosed spring-applied, hydraulically released, liquid cooled multi-disk on all four wheel ends. The service brakes also functions as emergency and park brakes. Brakes will apply upon loss of hydraulic pressure or electrical power.

Hydraulic tank volumes	120 litres 31.7 US Gal

Electrical equipment

Alternator	24VDC/75A Delco Remy
Batteries	2 x 12V
Starter	Electric
Driving and working lights	2 front / 2 rear



Overall dimensions

A	Height to top of canopy	1935 mm	76 in
B	Tramming length	6441mm	254 in
C	Length - rear axle to bumper	2288 mm	90 in
D	Centre hinge to rear axle	1041 mm	41 in
E	Centre hinge to front axle	1045 mm	41 in
F	Reach	1239 mm	49 ft
G	Height to top of hood	1516 mm	60 in
H	Height - ground clearance	204 mm	8 in
J	Height - dump clearance	1036 mm	41 in
K	Height - bucket pin	2014 mm	79 in
L	Height - bucket raised	3334 mm	131 in
M	Width overall	1524 mm	60 in
N	Max width RF	1486 mm	59 in
P	Outside radius	4374 mm	172 in
R	Inside radius	2315 mm	91 in
S	Turn angle		37 deg
T	Dump angle		38 deg
U	Roll back angle		47 deg

Options

Ejector bucket

Quick detach system

Fire suppression system - Manual and Automatic

Radio remote control

Engine options

Engine	Certification	Displacement	Output	Maximum torque	No. of cylinders	Cooling type	Induction type	Governor
Cummins QSB3.3	MSHA, U.S. EPA Tier 3, EU Stage IIIA	3.3	74 kW (99 hp) @2200 rpm	415 Nm (306 ft-lb) @ 1600 RPM	4	Liquid cooled, after cooled	Turbocharged	Electronic
Deutz BF4M2012C	EPA Tier 2 MSHA	4.04 litres	56 kW (75 hp) @ 2300 rpm	274 Nm (202 ft-lbs) @ 1500 rpm	4	Liquid cooled, after cooled	Turbocharged	Electronic

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