



























- A **load haul dump truck** (LHD), is a specialized loading machine that are used to scoop extracted ore, such as coal, with a bucket, load it into the cart, and dump it in the bottom of the mine to undergo primary crushing before being hoisted to the surface out of the mine.
 - Battery operated
 - Diesel operated
 - Electric operated

- Based on available size of bucket
- Based on the width and height of LHD

- Load Capacity 10 tonnes / 11.02
- Machine Length 9 780 mm / 385 in
- Machine Width 2 000 mm / 78.74 in
- Machine Height 1 950 mm / 76.77 in

LHD LHD consists of two parts connected by an articulation point; this gives them a high level of manoeuvrability in narrow mine drifts.

- Bucket, (0.8 to 10 m3)
- Engine,
- · Long and narrow profiler,
- Diesel exhaust treatment device,
- · Tires and tire accessories,
- ventilation systems.

LHD

- The standard for LHD is a diesel engine with horsepower ranging from 78 to 145
 - A ventilation system
 - catalyctic fume diluter
 - Automatically shuts off
- Smaller LHDs are outfitted with electric motors.

- Rubber tires and four-wheel drives.
- Narrow and low-profile
- · Central articulation
- · Bidirectional operation
- Side-seated operator
- rugged design and construction
- · tramming position.

- LHD vehicles are mounted on rubber tires and propelled by fourwheel drives.
- Narrow and low-profile envelope sizes accommodate the constraints imposed by underground clearance restrictions.
- Central articulation is achieved through hinge pins connecting the two main frames. Combined with power steering, this feature provides high maneuverability and a sharp turning radius.
- Bidirectional operation with the same number of speeds forward and reverse allows loads to be hauled in either direction with the same efficiency.
- same efficiency. Side-seated operator positioning provides equal visibility and comfort while traveling in either direction.

 Underground LHD vehicles have rugged design and construction in comparison to what might be acceptable for surface-type equipment operating in material handling applications.

 In the tramming position, the loaded bucket is supported on the main frame of the vehicle, not on the hydraulic cylinders.

- LHDs are usually 8 to 15 meters long;
- weight 20 to 75 tons,
- Run on electrical or diesel power
- low speed of about 20-30 km/h

• Manual operation

- · Line of sight remote control
- Tele-remote control
- · Fully automated operation
- Semi-automatic operation

LPDT

- · low-profiles and sharp turning radius
- Loaded and unloading points
- Capacities 2.5 to 75 tons.

- Tip dumpers
- Telescoping dumpers
- Push-plate

- Telescoping dumpers are compact and do not require vertical dumping. The truck has a two stage box that can accommodate up to 20 tons. The movement of the telescoping bed allows the rock to be loaded or discharge
- Loading
- Accumulates of material
- Dumping cycle
- Push plate

Payload		
Machine weight, approx	11.6 tons	10.5 tonnes
OVERALL DIMENSIONS		
Length	23'-8"	7 215 mm
Width	6'-0"	1 830 mm
Height over dump body sides	6'-2"	1 880 mm
TURNING RADIUS AT 45°		
Inside	9'-2"	2 795 mm
Outside	16'-4"	4 980 mm
SAE DUMP BODY VOLUME*		
Struck	6.8 yd3	5.2 m³
Heaped	7.9 yd³	6.0 m ³
*Other box sizes available on requ	uest	