

WJ-3 LHD (LH307)

WJ-3 Underground Wheel Loader

Main features:

Central articulation framework

Special design bucket, easy to shovel mine rock

Wear plate for bucket blade;

Adjustable joint bearing

Oscillate angle $\pm 10^\circ$

Hydraulic oil tank and cabin bolted to the framework;

Water-cooled diesel engine, meet Tire 3 emission standard

DANA converter and transmission

Hydraulic system: Electro-hydraulic proportional technology, electric joystick control;

Integrated travelling and parking brake, multi-discs wet disc brake;

SAHR brakes, spring brake, hydraulic release.

ECU controlled diesel engine, electric footage accelerator, CAN-BUS integrated control with self-monitoring software, joystick control.

Main Parameter

Size (L*W*H)	8220 mm *2040 mm *2125 mm
Weight (Empty)	17000 kg
Weight (full load)	24000 kg
Loading capacity (weight)	6000~7000 kg
Standard bucket volume	3 m ³
Speed (full load, F/R, none-slope and hard road)	
1st gear	4.2 km/h
2nd gear	8.4 km/h
3rd gear	14.1 km/h
4th gear	23.2 km/h
Grade ability	25%, 3.4 km/h
Traction force	175 kN

1. PowerTrain

Power source	Diesel engine
Brand	VOLVO PENTA
Cooling method	Water-cooled
Control method	CAN BUS
Rated power	129 kW/2200 rpm
Maximum torque output	783 Nm/1500 rpm
DC voltage	24V
Emission standard	Tire III

Options: Deutz TCD914 L06 , Deutz BF6M1013EC

2. Converter

Brand	DANA
Model	C273

3. Transmission

Brand	DANA
Model	R32000 Electric shift
Options	R32000 mechanical shift

4. Drive axle

Type	Rigid planetary multiple wet disc brake, front axle with limited-spin differential, rear axle with standard differential
Brand	KAMACH-KASH
Model	KT16
Options	DANA 16D, DANA 37RM116

5. Tires

Rim size	14.00/1.5-25
Tire size	17.5-25
Inflation pressure (front tires)	6.0±0.1 bar
Inflation pressure (rear tires)	3.5±0.1 bar

6. Steering system

Central articulated frame, power steering, two steering cylinder+1 electric control joystick

Steering angle	±42 °
----------------	-------

Turning radius (inner)	3183±250 mm
Turning radius (outer)	5863±250 mm
System pressure	175 bar

7. Service hydraulic

2 lifting cylinder, 1 tilting cylinder, 1 electric joystick

System pressure	230 bar
Boom lifting	5.2 s
Boom descend	3.6 s
Bucket tilting	6.0 s
Bucket retreat	4.1 s

8. Brake system

Spring brake, hydraulic release, forced cooling system, wet multi-discs integrated travelling/parking brake on four wheels, with manual release device.

System pressure	110 bar
-----------------	---------

9. Electric system

Generator	24 V, 130 A
Battery	2x12 V, 165 Ah
Starter	5.5 kW, 24 V
F/R light	6x40 W LED

10. Liquid fill-in

Diesel	180 Litre
Hydraulic oil	200 Litre

11. Other options:

Automatic central lubrication
Remote control
Weight monitoring system
Power shift transmission
Automatic fire suppression system
Sealed cabin with air-conditioner

12. Drawings

