



# WJ-0.6 Underground Mining Loader

The WJ-0.6 is a small underground mining loader for 2.2 x 2.2 m mine tunnels. It uses lateral driving and operation. The cab is spacious, with a wide view and comfortable operation.

The whole machine adopts the central hinged and slewing bearing type body swing structure, which has better stability and passing ability.

The transmission system uses a hydrostatic transmission system (pump & motor) for continuously variable speed.



## MAIN SPECIFICATIONS

Tramming capacity	1 200 kg
Dimension	5000mm*1150mm*1990mm
Max. Break out force	32kN
Max. Tractive force	35kN
Standard bucket	0.6m <sup>3</sup>

## SPEEDS FORWARD & REVERSE

	0-9km/h
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## BUCKET MOTION TIMES

Raising time	3.3sec
Lowering time	2.5 sec
Dumping time	2.0 sec

## OPERATING WEIGHTS \*

Total operating weight	4 600 kg
Front axle	1900 kg
Rear axle	2700 kg

## LOADED WEIGHTS \*

Total loaded weight	5 800 kg
Front axle	3 700 kg
Rear axle	2 100kg

\* Unit weight is dependent on the selected options

## OPERATIONAL CONDITIONS AND LIMITS

Environmental temperature	-10 °C ~ +40 °C
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## REQUIREMENTS AND COMPLIANCE

JB/T5500 Underground Mining Loader
JB/T5501 Underground Mining Loader Test Method
JB 8518 Underground Mining Loader Safety Requirement
GB25518 Underground Mining Loader Safety Requirement
XY13.1-2013 Underground Mining Loader Company Standard

## POWER TRAIN ENGINE

Diesel engine	DEUTZD914L04
Output	58 kW @ 2300rpm
Torque	273 Nm @ 1500rpm
Number of cylinders	4
Displacement	4.314 L
Cooling system	Air cooled
Fuel System	4-stroke direct injection supercharged engine,
Intake air filter	Dry air filtration, Pre-filter + two-stage filtration
Speed governor	Mechanical governor
Electrical System	24V
Emission Standards	Euro Stage III
Exhaust system	DOC+POC+ silencer
Average fuel consumption at 50% load	5.8 L/h
Fuel tank capacity	65L

## VARIABLE PUMP

Danfoss	90 series
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## VARIABLE MOTOR

Danfoss	H1 series
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## TRANSFER CASE

XINGYE	WJ06030500
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## AXLES

Front axle	CY 10
Fixed axle	
Rear axle	CY 10 NO-SPIN differential
Central articulated swing	Swing angle $\pm 6^\circ$

## TIRE

Model	7.50-15
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## HYDRAULICS

Hydraulic oil radiator	Capability up to 40 °C ambient temperature
Transmission oil radiator	
Fittings	JIC
Hoses	GB 3683
Working Hydraulic oil tank capacity	85L
Driving Hydraulic oil tank	85L

## STEERING HYDRAULICS

Full hydraulic, centre-point articulation, two power steering cylinders.	Direction handwheel operation Full hydraulic steering gear control steering
Hydraulic Steering Unit	Open center type
Steering hydraulic cylinders	2 pcs
Steering pump	Gear type Quantitative pump

## BUCKET HYDRAULICS

Control Mechanism	Hydraulic pilot control
Working mechanism	5-link
Lift cylinders	1 pcs
Dump cylinder	1 pc
Main work valve	Open center type
Pump for bucket hydraulics	Gear type Quantitative pump

## BRAKES

Spring apply, fully closed multi-disc wet brake with spring brake;  
Integrated service brake, parking brake and emergency brake  
Brake system performance complies with requirements of EN ISO 3450, AS2958.1 and SABS 1589

## OPERATOR'S COMPARTMENT

WJ-0.6 cab provides superior ergonomic operating space to reduce operator fatigue by increasing legroom and improving pedal position. It is equipped with 2-point safety belt and the seat is adjustable. The operator drives and works sideways.

WJ-0.6 cab has passed ROPS/FOPS certification to protect operator safety.

The steel framed cab has sufficient strength to prevent falling rocks from rolling over to protect the operator's safety; with work lights, the operator's line of sight is clearer during operation.

## CABIN

- ROPS certification according to ISO 3471
- FOPS certification according to ISO 3449
- Open Cabin
- Portable fire extinguisher
- Full hydraulic pilot proportional control handle
- Floor washable with water to reduce dust
- Three-point contact access system to cabin
- Seat belt.
- Master circuit breaker switch

## DASHBOARD AND DISPLAYS

Equipped with icon form panel to make it easier for the operator to identify the switch information of the alarm and have more time to look at the road and work.

XINGYE Standard Control System Standard	
Critical warnings and alarms	Displayed with sound and light
Instrument Panel	Icon form panel Full-featured rocker switch control



## REAR AND FRONT FRAME

A new heavy duty rear frame with added weight in the rear of the loader balances the machine perfectly when lifting and pushing into the muck pile. Heavy duty rear frame and mask with integrated reaction bars minimizes damage from wall impacts.

High strength structure with optimized material thicknesses and reduced own weight contribute to higher overall hauling capacity and long structural lifetime.

Welded steel box structures used in the frame and boom provide strong resistance to shock loads and are optimized to reduce stresses and extend frame lifetime

Central hinge	Adjustable bearing
Tanks	Welded to the frame
Boom system	5-LINK

## ELECTRICAL SYSTEM

### MAIN COMPONENTS

Alternator	28 V, 35 A
Batteries	2×12 V, 60Ah
Starter	24V/4 kW
Driving and working lights	LED 2PCS in cab 2PCS in rear frame
Alarm	Oil pressure warning/ Rotation Warning Lamp
Horn	Standard

## INCLUDED SAFETY FEATURES

### FIRE SAFETY

Portable fire extinguisher	2kg 1PCS
Hot side - cold side design	Standard
Cooling fan guard	Standard
Front and rear frame locking device	Standard
Boom locking device	Standard

## ELECTRICAL OPTIONS

Monitoring camera system

## OTHER OPTIONS

Side dump bucket

## DOCUMENTATION

### STANDARD MANUALS

Operator's and Maintenance Manual	English or Chinese
Parts Manual	English or Chinese
Decals	English or Chinese

## OPTIONS

In-line remote control system

Tele remote control system

Ansul manual fire extinguishing system and automatic shutdown

Emergency steering function



## Dimension

