



WJD-1.5 Underground Mining Loader

WJD-1.5 electric underground mining loader is suitable for 3x3 m mine tunnel. The loader has been greatly improved in terms of operation and maintenance ergonomics. Further improvements in the safety level of the original underground loader make operation and maintenance smoother.

WJD-1.5 cab is rear-mounted, has a good view and is ROPS/FOPS certified to protect the operator. The ergonomically designed cab provides a comfortable operating space.

There is a safety locking pin on the boom of Z-link working mechanics to ensure the safety of the staff during maintenance.

Working brake and parking brake are SAHR. Each lubrication point is arranged reasonably for easy maintenance.



MAIN SPECIFICATIONS

Tramming capacity	3 000 kg
Max.Break out force	70 kN
Max. Tractive force	85 kN
Standard bucket	1.5 m³
Size	6910*1760*2080(mm)

SPEEDS FORWARD & REVERSE

1st gear	3.2 km/h
2nd gear	7.2 km/h
3rd gear	13.3 km/h

BUCKET MOTION TIMES

Raising time	5.1sec
Lowering time	2.3 sec
Dumping time	1.0sec

OPERATING WEIGHTS *

Total operating weight	12 200 kg
Front axle	5 000 kg
Rear axle	7 200 kg

LOADED WEIGHTS *

Total loaded weight	15 200 kg
Front axle	9 250 kg
Rear axle	5 950kg

* Unit weight is dependent on the selected options

OPERATIONAL CONDITIONS AND LIMITS

Environmental temperature	-15 °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

ELECTRIC MOTOR

Electric motor	YX3-250M-4
Type	Three-phase, squirrel-cage motor
Output	55 kW @ 1480rpm
Working voltage	380V
Frequency	50Hz

CONVERTER

Dana C270 Converter

TRANSMISSION

Dana R20000 Transmission	Power shift Three gears forward and reverse
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AXLES

Front axle SAHR Fixed axle	XWD 2.03.00.0024
Rear axle SAHR Fixed axle	XWD 2.03.00.0025

Model	12.00-24
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HYDRAULICS

Fittings Standard	JIC
Hoses Standard	GB 3683
Working Hydraulic oil tank capacity	160L

STEERING HYDRAULICS

Full hydraulic, centre-point articulation, power steering with two double acting cylinders.	Hydraulic pilot control
Steering main valve	Open circuit type
Steering hydraulic cylinders	2 pcs
Steering pump	Gear type Quantitative pump

BUCKET HYDRAULICS

The oil flow from Steering hydraulic pump is directed to Bucket hydraulics when steering is not used	Hydraulic pilot control
Working mechanics	Z-link
Lift cylinders	2 pcs
Dump cylinder	1 pc
Main valve	Open circuit type
Pump for bucket hydraulics	Gear type Quantitative pump

BRAKES

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
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OPERATOR'S COMPARTMENT

WJD-1.5 cab provides superior ergonomic operating space to reduce operator fatigue by increasing legroom and improving pedal position.

WJD-1.5 cab is rear-mounted, has a good view and is ROPS/FOPS certified to protect the operator.

The control operation is hydraulic pilot type, which conforms to the operator's usage habits, has a simple structure and is convenient for maintenance.



ELECTRICAL SYSTEM

MAIN COMPONENTS

Control Voltage	24 V
Cable Length	100m
Driving and working lights	LED 2PCS on the top of cab 2PCS in rear frame
Startup mode	Star-delta starting
Alarm	Oil pressure warning/ Rotation Warning Lamp
Horn	Standard

INCLUDED SAFETY FEATURES

FIRE SAFETY

Portable fire extinguisher	2kg 1PCS
Main power switch	Standard
Emergency stop push buttons	1 pc in cab
Manual discharge for pressure accumulators	Standard
Mechanical boom locking	Standard
Safety Device	Three-phase electric monitoring, thermal overload protection, cable over-discharge protection

DOCUMENTATION

STANDARD MANUALS

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

OPTIONS

Centralized lubrication



