XINGYE RU-29
Underground Personnel Carrier

RU-29 is a trackless device specially designed for underground mines, suitable for 4.5×4.5 meter mine tunnels. The trackless equipment is used for transporting personnel underground. All the personnel seats have safe belts. The personnel carrier is especially suitable for difficult working conditions, and the narrow low and muddy working ground.

Superior stability and simple handling can improve the safety of underground lifts. The hydro brakes are more suitable for the complicated and difficult working environment of the underground to ensure safety. The cabin is framed to ensure stability, and all walking surfaces are non-slip to minimize the possibility of slips and falls.

The passenger compartment adopts a single seat structure, and the spacious seating environment makes people happy. The design of the side opening and rear opening of the compartment makes the occupant get on and off more quickly and conveniently. The use of the front and rear call system makes communication of occupants and driver better.

Technical Specification

Rated carrier	29 people
Operating Weight	12500Kg
Dimensions	8940x2400x2550mm

Speed

First Gear	5.3 km/h
Second Gear	11.7 km/h
Third Gear	26.3 km/h

Trafficability Specifications

Max. Steering Angle	±40°
Min. Off-ground Clearance	310mm
Max. Grade-ability	14°（25%）
Approach Angle	15°

Operating conditions and restrictions

Working temperature	-15°C～+50°C

Design Standards

GB21500-2008 Underground mine trackless tire type mining vehicle Safety requirements
GB21011-2007 Mining man safety requirements

Power Transmission System

Power System

Diesel Engine	DEUTZF6L914
Rated Power	84 kW @ 2300 rpm
Cylinder	6
Cooling	Air
Combustion	4-stroke direct injection engine
Intake air filter	Dry air filtration, pre-filtration + two-stage filtration
Electrical System	24 V
Emission Standards	Euro Tier II
Exhaust system purifier	DOC+POC+Silencer
Fuel tank volume	126L

Torque converter Gearbox

Dana 1201FT20321	Electronically controlled shifting with buffer function
	Single-stage three-element with hydraulic pump drive
	Forward and Reverse 3 Gears

Axles(Front)

DANA	
Working brake is hydraulic brake, spring release; parking brake is spring brake, hydraulic release	112 Standard differential
Rigid axle	

Axles(Rear)

DANA	
Working brake is hydraulic brake, spring release; parking brake is spring brake, hydraulic release	112 Standard differential
Rigid axle	

Tyre

Tyre Model	10.00-20
Tyre Brand	Tianli / Qianjin

Hydraulic System

Components	Working system, steering system, braking system, oil charging system
Joint standard	JIC
Hose standard	GB3683
Hydraulic tank volume	126L
Oil absorption filtration accuracy	80μm
Oil return filtration accuracy	10μm

Steering

Full hydraulic steering gear, two double-acting steering hydraulic cylinders	Steering wheel operation
Steering hydraulic cylinder	2 pcs
Steering pump	Gear type metering pump

Braking

Components	Working brake, parking brake and emergency brake
Features	The working brake is hydraulic brake and spring release; Parking brake is spring brake, hydraulic release

Brake system performance meets EN ISO 3450, AS2958.1 and SABS 1589 standards.

Electrical System

Battery	2 x 12 V,100Ah
Light and Indicator	LED light 2 pcs on front frame 2 pcs on rear frame
Dual horn	standard
sensor	Diesel, hydraulic oil level sensor, steering, brake system pressure sensor
monitor	IFM CR1083 7" LED
Controller	IFM CR2532 CPU 50MHz
Rotating warning light	standard

Safety
Fire Safety

Portable fire extinguisher	2kg 2pcs

Driver Cabin

RU-29 cab provides a spacious ergonomic operating space with ergonomic console layout for better comfort and productivity.

RU-29 cab has passed ROPS/FOPS certification to protect operator safety.

ROPS certification in accordance with ISO 3471

FOPS certification in accordance with ISO 3449

Documents
Standard manual

Spare parts manual	English
Operation manual and maintenance manual	English
Label	English

Lion One Ming Service (Pty) Ltd

Side view dimensions: 2200, 2550, 15°, 15°, 310, 2400, 1650, 2700, 8940

Top view dimensions: 2100, 4335, R7570, R4580, 40°, 2400, 4335