



RU-13 Underground Personnel Carrier

RU-13 is a trackless device specially designed for underground mines, suitable for 3.5×3.5 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 long-seats structure, and the spacious seating environment makes people comfortable. The design of the four-door single-door makes the occupants get on and off more quickly and conveniently. The use of the front and rear call system enables the occupants to communicate better with the driver.



Technical Specification

Rated carrier	13 people
Operating Weight	8060kg
Dimensions	7220mmx1860mmx2300mm

Speed Forward and Reverse

First Gear	4.8 km/h
Second Gear	10.5 km/h
Third Gear	23.6 km/h

Trafficability Specifications

Frame Swing Angle	±6°
Max. Steering Angle	±40°
Min. Off-ground Clearance	250mm
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 DEUTZ D914L06

Rated Power 86.5 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 III

Exhaust system DOC+POC+Silencer purifier

Fuel tank volume 140 L

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 filling system
Joint standard	JIC
Hose standard	GB3683
Hydraulic tank volume	140L
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

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.

Driver operation

RU-13 cab provides a spacious ergonomic operating space with ergonomic console layout for better comfort and productivity.

RU-13 cab has passed ROPS/FOPS certification to protect operator safety.

Cab

ROPS certification in accordance with ISO 3471

FOPS certification in accordance with ISO 3449

Electrical System

Main configuration

Generator	28 V, 35A
Battery	2×12 V, 100Ah
Starter	24V/ 4 kW
Light and Indicator	2 pcs on front frame 2 pcs on rear frame
Alarm	Low oil pressure alarm Rotating warning light
Dual horn	standard

Safety

Fire Safety

Portable fire extinguisher	2kg 2pcs
----------------------------	----------

Energy isolation

Main power switch can be locked	standard
Trailer connecting device	standard

Documents

Standard manual

Spare parts manual	English
Instruction manual and maintenance manual	English
Label	English

Optional configuration of the electrical system

Imaging system



