



UK-5 Underground Mining Truck

The UK-5 truck is an articulated underground mine truck with a capacity of 5 tons, with innovative features that can easily cope with severe conditions, provide strong power, strength and reliability, and help you maximize productivity.

Heavy-duty front and rear frame designed to cope with the harsh underground environment, excellent quality, reliability and durability meet customer requirements, making transportation simpler, more efficient.

The center hinge adopts rotary bearing to ensure that the front and rear frame can swing freely and ensure that the tire can form good contact with the ground under bad working conditions.



MAIN SPECIFICATIONS

Rated capacity	5000 kg
Max Traction	65KN
Standard bucket	2.5m ³
Size	5700×1430×2000 (mm)

SPEEDS FORWARD & REVERSE WITH DEUTZ D914L04

1st gear	4.7km/h
2nd gear	9.5km/h
3rd gear	20.0 km/h

BUCKET UNLOADING ANGLE & APPROACHING ANGLE

Bucket unloading angle	65°
Approaching angle	15°

EMPTY LOAD*

Total operation weight	7050kg
Front axle	4340kg
Rear axle	2710kg

LOADED WEIGHTS *

Total loaded weight	12050 kg
Front axle	5980 kg
Rear axle	6070kg

* Equipment weight is dependent on the selected options

OPERATIONAL CONDITIONS AND LIMITS

Environmental temperature	-15°C~+45°C
Standard operating altitude	With engine DEUTZ D914L04 No power loss at ambient temperature of 25 ° C below 1000 m

REQUIREMENTS AND COMPLIANCE

JB/T8436 Underground mining truck with tire
JB/T5501 Underground loader testing method
GB21500 Safety requirements for railless tire-type underground mining trucks
XY12.1-2011 Underground mining truck

POWER TRAIN

ENGINE

Diesel engine	DEUTZ D914L04
Output	58kW @ 2300rpm
Torque	273Nm @ 1500rpm
Number of cylinders	Inline 4-cylinder
Displacement	4.3 L
Fuel System	Integrated hand oil pump
Cooling system	Air cooled
Intake system	Dry air filtration, pre-filtration two-stage filtration
Starting system	24V/4KW starting motor
Emissions	Euro Stage III
Exhaust system	DOC+POC+ Silencer
Fuel tank capacity	88 L
Average fuel consumption at 50% load	5 L/h

CONVERTER& TRANSMISSION

Dana RT1201FT20321	Torque converter & transmission integrated
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AXLE

Front axle SAHR Fixed axle	UK-5 Standard differential
Rear axle SAHR Fixed axle	UK-5 Standard differential

TIRE

Model	10.00-20
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HYDRAULICS

Fittings	JIC
Hoses	GB3683
Hydraulic oil tank capacity	73L

STEERING HYDRAULICS

Full hydraulic, centre-point articulation, power steering with two double acting cylinders.	controlled by steering wheel
Steering hydraulic cylinders	2 pcs
Steering pump	Gear pump

BUCKET HYDRAULICS

The oil flow from Steering hydraulic pump is directed to Bucket hydraulics when steering is not used.	Joystick controlled
Lifting cylinder	2 pcs
Main valve	Open circuit type
Working pump	Gear pump

BRAKES

Service brakes are SAHR multidisc wet brakes on all wheels. ;
Integrate service brake, park brake and emergency brake in a whole system.
Brake system performance complies with requirements of EN ISO 3450, AS2958.1 and SABS 1589

OPERATOR'S COMPARTMENT

The UK-5 cab provides spacious ergonomics operation space, ergonomically compatible platform layout, improved comfort and increased production efficiency.

The UK-5 cab passed the ROPS/FOPS certification to protect the safety of the operator.

CABIN

ROPS certification according to ISO 3471

FOPS certification according to ISO 3449



OPERATOR'S SEAT

The UK-5 driver's seat is equipped with seatbelt. The seat is adjustable up and down.

Two-point safety belt

FRAME

REAR AND FRONT FRAME

The rear frame is heavy-duty designed to make the equipment more stable when it is transported and loaded and unloaded. Heavy-duty front frames and cabins are designed to minimize damage from roadway wall shocks. High strength alloy steel plate is used to optimize material thickness, reduce weight, improve overall transportation capacity and long structural life.

Central hinge	Slew Bearing
Tanks	Welded to the frame

ELECTRICAL SYSTEM

MAIN COMPONENTS

Alternator	28 V,35A
Batteries	2×12 V, 80Ah
Starter	24V/4.0KW
Driving and working lights	2PCS on front frame 2PCS on rear frame 1pcs in the cab
Alarm	Low oil level alarm / pressure Rotating warning light
Dual horn	Standard

INCLUDED SAFETY FEATURES

FIRE PREVENTION

Portable fire extinguisher	2kg 1PC
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ENERGY ISOLATION

Main power switch can be locked	Standard
Carriage maintenance support device	Standard
Front and rear frame locking device	Standard

DOCUMENTATION

STANDARD MANUALS

Operator's Manual	English
Maintenance Manual	English
Parts Manual	English
Service and Repair Manual	English

