

UK-15 (TH315) Underground MineTruck



UK-15 Underground MineTruck is used together with WJ-3 or WJ-4 UG production loader. Power supply is emission tier 3 water-cooled diesel engine, to reduce the fuel consumption, and exhaust.

Hydraulic system: proportional electro-hydraulic control, with electric joystick to control the cylinder extension so that the wagon box lift and descend softly.

MAIN FEATURES

- Tunnel suitable: $\geq 3.0\text{m} \times 3.0\text{m}$
- CAN-BUS control for monitoring the failure of the operation;
- Engine: Low pollution diesel engine CUMMINS
- Transmission and Converter: DANA Spicer R32000+C273
- Drive axle: DANA 16D no-spin or Kessler+CO D81
- Main pump: Permco Hydraulics
- Other main hydraulic components: MICO, Williams, Wolvoil, Danfoss, etc.

MAIN SPECIFICATIONS

DIMENSIONS

Overall length	7718±100 mm
Width	2216±50 mm
Height (to Ceiling)	2390±50 mm
Wagon box volume (SAE)	7.5 m ³
Wagon box lifting height	4037 mm
Ground clearance	254 mm
Unload angle	65°
Turning radius (Inner)	3122±150 mm
Turning radius (Outer)	6045±250 mm
Steering angle	44°±2°

Empty weight

Empty weight	15 metric ton
Front axle load	10 metric ton
Rear axle load	5 metric ton

Full load weight

Weight full load	30.8 metric ton
Front axle load	15 metric ton
Rear axle load	15.8 metric ton

HAULING (4 speed forward+4 speed reverse)

Travelling speed (full load)	0 ~ 27.9 km/h
Travelling speed (empty)	0~28.2 km/h
Grade ability	20% @ gear 1 4.4 km/h

Speed when full load at flat horizontal hard road

1 st Gear	5.2 km/h
2 nd Gear	10.3 km/h
3 rd Gear	17.1 km/h
4 th Gear	28.2 km/h

MAIN COMPONENTS

Diesel engine	
Brand	CUMMINS
Model	QSB6.7-190
Type	Water-cooled low pollution diesel engine
Rated power output	153 kw@2200rpm
Starting method	Electric starter
Exhaust purifier	Oxidate catalytic
Fuel consumption 50% load	16 L/hour

Drive line	
Power converter	DANA C273 series
Power transmission	DANA R32000 (4 speed)
Drive axle (front)	DANA 16D with POSI-TORQ limited spin differential
Drive axle (rear)	DANA 16D limited spin
Tires	14.00-24 smooth surface cut-resistance pneumatic tires

OPTIONS: KESSLER+CO D81



HYDRAULIC SYSTEM	
Hydraulic pump and control valve	Permco+ Danfoss
System pressure	18 MPa
Steering method	Central articulation, hydraulic steering

BRAKE SYSTEM	
Brake pump	Permco
Brake valve	Mico
Brake pressure	11 MPa
Service brake	Hydraulic brake, spring release
Parking brake	Spring brake, hydraulic release

ELECTRIC SYSTEM	
Voltage	24VDC
Generator	28V/70A
Starter motor	6.0 kW/24V
Battery	100 Ah×2

OPTIONS:

Sealed cabin with air-conditioner



Automatic central lubrication system



Fire suppression system



360° View travel aid with recording system

