



FW-10 Underground Multimec Truck

FW-10 Underground Multimec Truck is a kind of trackless equipment specially designed for underground service, suitable for 3.6×3.6m mine tunnel. This multi-purpose service vehicle is used for underground service, through professional powertrain design, four-wheel drive, articulated structure, enclosed cab with air conditioning, the equipment is especially suitable for harsh working conditions, narrow, low and muddy job sites work surface.

Better stability and simple manipulation can improve the safety of multi-function service vehicles, and fully enclosed multi-disc wet brakes are more suitable for complex and harsh underground working environments to ensure safety. The cab adopts an integral frame structure to ensure overall stability, and all walking surfaces are anti-slip to minimize the possibility of slip and fall accidents. The front axle hydraulic shock absorption system, and the cab is equipped with spring shock absorption seat, which improves the driving comfort.

This multi-purpose service vehicle is a quick-change universal chassis, with quick-change functions for sliding installation and sliding removal of different tops. A multifunctional chassis and a top with different functions can provide a safe and economical transportation system and operating platform for manpower, materials, fuel, etc.

The FW-10 series utility vehicle is the ideal solution for mine service needs.



Technical Specification

Carrying capacity	10 000kg
Operating Weight	9600Kg
Dimensions(mm)	7640×2000×2200

Speed Forward and Reverse

1st Gear	5.4 km/h
2nd Gear	11.5 km/h
3ird Gear	24km/h

Trafficability Specifications

Front Frame Swing Angle	±8 °
Max. Steering Angle	±40 °
Min. Off-ground Clearance	270mm
Max. Grade-ability	14 ° (25%)
Approach Angle	15 °



Operating conditions and restrictions

Working temperature	-15 °C~+50 °C
Standard Operating Altitude Range	No power loss at ambient temperature 25 °C from -1500m to +1500m

Design Standards

GB21500-2008 Underground mine trackless tire type mining vehicle Safety requirements
JB / T 13429-2018 underground service vehicle

Power Transmission System

Power System

Diesel Engine	DEUTZ TCD2013L04
Rated Power	120 kW @ 2300 rpm
Cylinder	4
Cooling	Water cooling
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 purifier	DOC+POC+Silencer
Fuel tank volume	130 L

Torque converter& gearbox

DANA 3019FHR24321	Electronically controlled shifting with buffer function Single-stage three-element with hydraulic pump drive Forward and Reverse 3 Gears
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Axles(Front)

DANA 123	Fully enclosed multi-disc wet hydraulic brake; with hydraulic shock absorber.
Rigid axle	

Axles(Rear)

DANA 123	Fully enclosed multi-disc wet hydraulic brake;
Rigid axle	

Tyre

Tyre Model	12.00-20
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Hydraulic System

Components	Working system, steering system, braking system, oil filling system
Joint standard	JIC
Hose standard	GB3683
Hydraulic tank volume	230L
Oil absorption filtration accuracy	80µm
Oil return filtration accuracy	10µm

Steering hydraulic system

Full hydraulic steering gear	Steering wheel operation
Steering hydraulic cylinder	Two pcs double-acting steering cylinders
Steering pump	Load Sensing Variable Pump

Braking hydraulic system

Components	Working brake, parking brake and emergency brake
Features	Fully enclosed multi-disc wet brake; The working brake is hydraulic brake and spring release; The parking brake is spring brake, hydraulic release.

Brake system performance meets GB/T33921-2017,JB/T13003-201 standards.

OPERATOR'S COMPARTMENT

FW-10 cab provides a spacious ergonomic operating space with ergonomic console layout for better comfort and productivity.

Cab

ROPS certification in accordance with ISO 3471

FOPS certification in accordance with ISO 3449

Shock absorbing seat

Closed cab

Electrical System

Main configuration

Battery	2×12 V, 100Ah
Light	LED 4 pcs on front frame 2 pcs on rear frame
Sensor	Diesel, hydraulic oil level sensor Steering and braking system pressure sensor
Dual horn	standard
Monitor	IFM CR1083 7" LED
Controller	IFM CR2532 CPU 50 MHz

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
Decals	English

Optional

Manual centralized fire extinguishing

Emergency steering system

Automatic centralized lubrication system

Heating and air conditioning system

Open cab



Optional cassettes

4000L oil tank

4m³ explosives transport carriage

14-passenger carriage

3 tons lifting platform

Maintenance platform



General Chassis Dimensions

