



FH-5

Underground Concrete Mixer Truck

FH-5 is special trackless equipment for underground concrete loading and conveying, suitable for 4.1×4.1 meters mine tunnel. The concrete transport truck is used for underground concrete loading and conveying. Through special design, the concrete transport truck has strong loading capacity and flexible conveying mode. The concrete transport truck is especially suitable for poor working conditions, narrow, low and muddy working surface.

The concrete mixing tank adopts the rotary sealing structure to improve the safety and stability of the concrete transport truck, and the wet brake is more suitable for the complex and harsh underground working environment to ensure safety. The cab adopts a monolithic frame structure to ensure overall stability, and all walking surfaces adopt anti-slip measures to minimize the possibility of slip and fall accidents.

The use of rotary sealed mixing tank effectively ensures the transportation quality of concrete without spraying, the vehicle's center of gravity is lower, the effective loading rate is higher, the passage is better and the constant temperature of concrete has a better guarantee, the driving is safer, cleaner, safer and more efficient.



MAIN PARAMETERS

Concrete mixing tank geometric volume	5.2 m ³
Effective volume	4 m ³
Total Weight	14000 kg
Dimensions (mm)	9250×1950×2500

SPEEDS FORWARD & REVERSE

1st gear	3.5 km/h
2nd gear	7 km/h
3rd gear	13 km/h
4th gear	23 km/h

Trafficability Specifications

Vehicle swing Angle	±8°
Max. Steering Angle	±40°
Min.Off-ground Clearance	250 mm
Max. Grade-ability	14° (25%)
Approach Angle	16°

Operating conditions and restrictions

Working temperature	-15 °C ~ +50 °C
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Design Standards

GB21500-2008 Underground mine trackless tire type mining vehicle Safety requirements
Q/XY 011-2019 Mine diesel engine trackless concrete transporter

Power Transmission System

Power System

Diesel Engine	DEUTZ TCD2013L04
Output	120 kW @ 2300 rpm
Torque	618 Nm @ 1600 rpm
Cylinder	In-line 4
Displacement	4.7 L
Cooling	Water cooling
Combustion	Integrated hand oil pump and remote fuel filter turbo
Air intake system	Dry air filtration, two-stage filtration
Control System	Fuel electronically controlled injection system
Starting system	24V starting motor
Emission Standards	Euro Tier III
Exhaust system	DOC+POC+Silencer
Average fuel consumption at 50% load	12.0 L/h
Fuel tank volume	210 L

Torque converter

DANA C270	Single-stage three-element with hydraulic pump drive
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TRANSMISSION

DANA R32000	Power shift Forward and Reverse 4Gears
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Axles(Front)

Xingye Machinery	fixed
UK12	Fully enclosed multi-disc wet brake;

Axles(Rear)

Xingye Machinery	fixed
UK12	Fully enclosed multi-disc wet brake;

Tire

Tire	14.00-24
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Hydraulic System

Components	Working system, steering system, braking system, oil filling system
Joint standard	JIC
Hose standard	GB 3683
Hydraulic tank volume	200 L
Oil absorption filtration accuracy	80 μm
Oil return filtration accuracy	10 μm

Steering hydraulic system

Steering control	hydraulic redirector
Steering hydraulic cylinder	2 pcs
Steering pump	Gear type ration pump

Braking hydraulic system

Components	Working brake, parking brake and emergency brake
Features	Fully enclosed multi-disc wet brake Set working brake, parking brake, emergency brake in one Spring brake, hydraulic release

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

OPERATOR'S COMPARTMENT

The FH-5 enclosed cab provides a spacious ergonomic operating space with an ergonomic console arrangement that improves comfort and productivity.

CABIN

ROPS certification in accordance with ISO 3471

FOPS certification in accordance with ISO 3449

Electrical System

Main configuration

Battery	2×12 V, 100 Ah
generator	28 V 55 A
starter	24 V / 4 kW
Light	2 pcs on front frame 2 pcs on rear frame
Sensor	Oil filter, coolant, brake pressure alarm, Engine failure alarm
horn	standard

FIRE SAFETY

Portable fire extinguisher	2kg 1pc
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Energy isolation

Main power switch can be locked	Standard
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Trailer connecting device	Standard
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Documents

Standard manual

Spare parts manual	English
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Instruction manual and maintenance manual	English
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Decals	English
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Optional

Surveillance camera system

Centralized fire extinguishing system

centralized lubrication system



Outline dimensional drawing

