FAMBITION

QINGDAO FAMBITION HEAVY MACHINERY CO.,LTD.

FT155 TECHNICAL SPECIFICATION



High-efficiency Equipment, Made by FAMBITION

The FT155 underground diesel mining truck has a standard dump box of 7.5 m³ and a payload capacity of 15 tons, primarily used for transporting hard rock in underground non-coal mines with the tunnel dimension of 3.5*3.0 m or larger. The recommended matching LHD of FAMBITION is FL075.

Features:

- Centrally articulated vehicle, with full hydraulic power steering, compact structure, small turning radius, and strong passing ability
- High-quality alloy steel, strengthened treatment of key parts, advanced machining process, heat treatment process, and innovative design, to ensure that the body structure is sturdy and durable
- Enclosed air-conditioned cabin with FOPS/ROPS certification and flame retardant heat insulation interior
- Power transmission components made of world-class quality parts to ensure safe and stable system operation

Version number: 202601
Address: No.31, Beijing East Road, Longshui Subdistrict Office, Laixi City, Qingdao, Shandong, China.
E-mail: info@fambition.com Tel: +86(532)87900000 Website: Http://www.fambition.com

Basic dimensions	
Max. length	7 725 mm
Max. width	2 230 mm
Height	2 300 mm
Dumping angle	68°
Dump position max. height	4 133 mm
Ground clearance	296 mm
Steering angle	±42.5°
Inner turning radius	4 155 mm
Outer turning radius	6 580 mm

Operating weights	
Total operating weight	17 300 kg
Front axle load	11 700 kg
Rear axle load	5 600 kg
Loaded weights	
Total loaded weight	32 300 kg
Front axle load	14 100 kg
Rear axle load	18 200 kg
Dumping time	15 sec

Production capacity	
Standard dump box (SAE)	7.5 m^3
Payload capacity	15 000 kg
Maximum traction force	170 kN
Grade ability	25 %

Speeds forward & reverse (level/loaded)	
1st gear	4.4 km/h
2nd gear	8.8 km/h
3rd gear	14.0 km/h
4th gear	24.0 km/h

Operational conditions	
Environmental temperature	-20°C~+50°C
Standard operating altitude	-1500 m~+ 3000 m @ 25°C No power loss

Design Standards
AQ 1043-2007 Mining Products Safety Label
GB 20891-2014 Limits and Measurement Methods for Exhaust Pollutants from Diesel Engines of Non-road Mobile Machinery
GB 21500-2008 Trackless Tyred Mining Truck for Underground Mines—Safety Requirements
JB/T 8436-2015 Tyred Mining Truck for Underground Mines
GB 7679.4-2005 Mining Machinery Terminology—Part 4: Mine Hauling Equipment
JB/T 5946-1991 Construction Machinery—General Technical Specifications for Painting

Engine	
Brand&model	Volvo TAD880VE
Rated power	160 kW @ 2200 rpm
Output torque	1075 Nm @ 1400 rpm
Cylinders	Inline six-cylinder
Displacement	7.70 L
Cooling system	Liquid cooled
Combustion principle	4-stroke, common rail electric fuel injection with turbo
Air intake system	Two stage filtration, dry type, air-cooler
Operating voltage	24 V
Emissions standard	Stage V
Exhaust system	DOC+DPF+SCR
Average fuel consumption (at a 50% load)	20 L/h
Fuel tank refill capacity	230 L

Power train	
Transmission	Dana R32000
Torque converter	Dana C323
Gear shifting type	Electrical gear shift control, four gears forward and reverse
Axles	Kessler D91
	SAHR (Posi-stop) Standard slip differentials
	Rear axle fixed, front axle

	oscillating ±8°
	M&F manual traction control
Tires	17.5-25

Cabin
FOPS/ROPS certificate
Grammer mechanical suspension seat
Two-point seat belt
Two-sided laminated tempered glass window
Sound-absorbing, noise-reducing and heat-insulating interior
Trelleborg rubber shock absorption
Emergency outward-push escape window
Emergency stop switch & forced start
Cooling-only air conditioning
Three-point contact access system to quickly get into the cabin

Hydraulics	
Steering hydraulics	
Fully hydraulic powered steering The oil flow from steering hydraulic pump is directed to bucket hydraulics when steering is not used.	
Steering cylinder	Ø100 mm, 2 pcs
Hydraulic steering gear	Danfoss
Dump box hydraulics	
Hydraulic pilot proportional control	
Lift cylinders	Ø125 mm, 2 pcs
Joystick	Parker
Main valve	Parker
Steering&braking pumps	Parker tandem gear pump
Brakes	
Charging valve	Rexroth
Service brake valve	Mico
Brake accumulator	Parker
Solenoid valve	Vickers
Hydraulic oil tank	160 L (Donaldson oil suction filter)

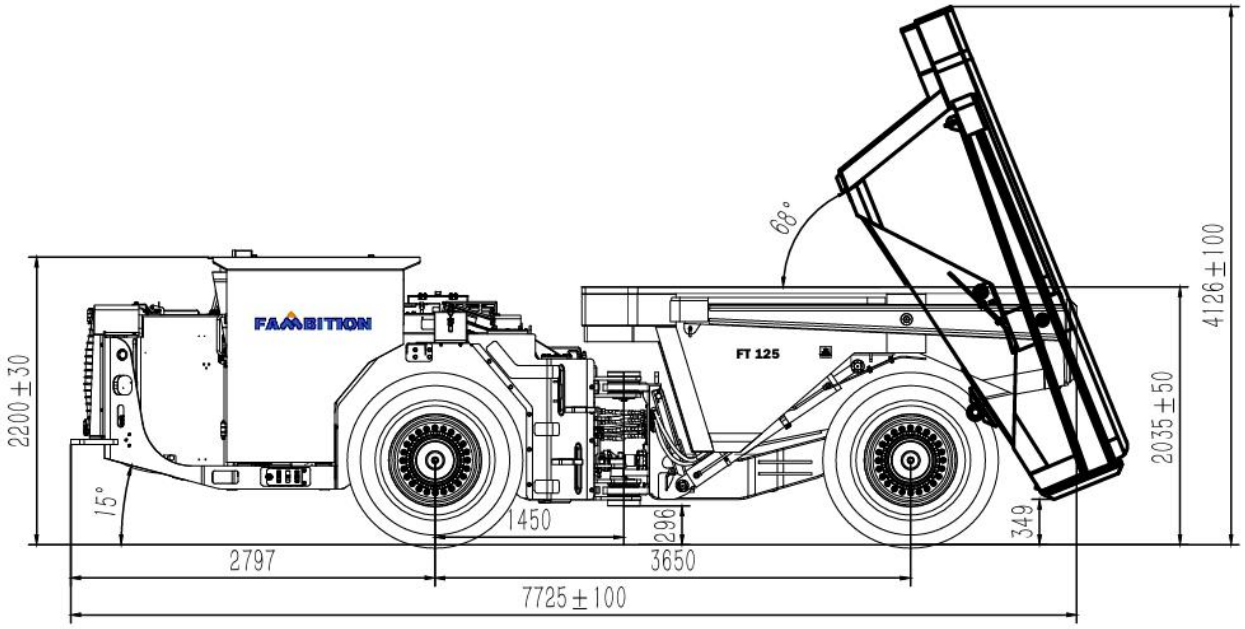
Electrical system	
Circuit breaker	ABB
Electric relay	Bosch
Connector	TE
Engine faults detection	Display that monitors engine operation
Battery	2*12 V Camel

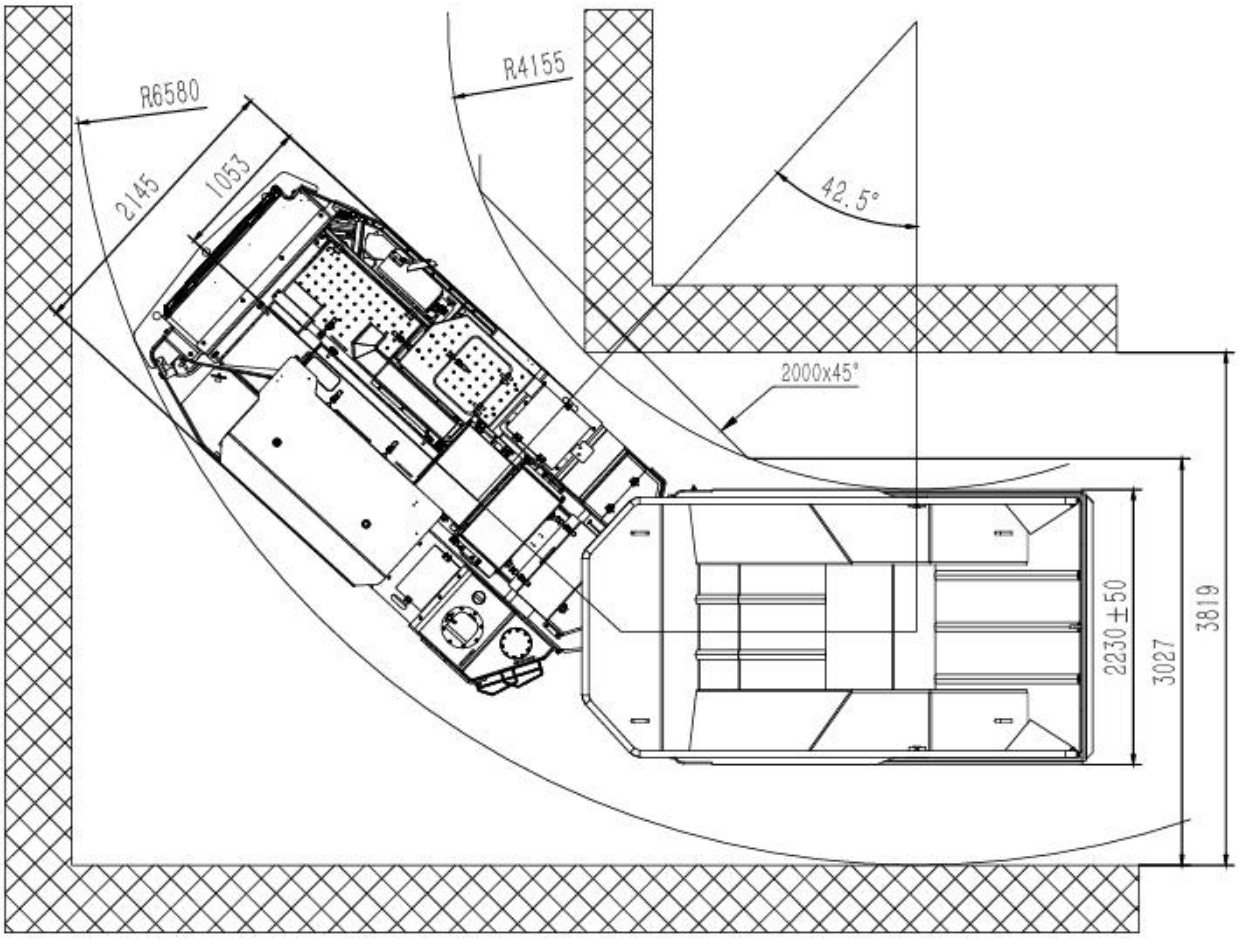
Safety	
Portable fire protection	2*6 kg
Supporting bar for dump box repair	2 pcs
Alarm horn&back-up alarm	Ecco 107 dB
LED	5*20 W
Turn signals and brake lights	4 pcs
Manual central lubrication	1 set
Flashing beacon	1 pc
Reverse imaging	1 set
Emergency stop button	3 pcs

Options
Manual/automatic centralized fire protection
Automatic central lubrication system
Electric filling pump
7.5 m³ dump box
Heating, ventilation and air conditioning (HVAC)
Anti-skid chain
Monitoring camera system
Wheel choke

Manuals	
Spare parts manual	Chinese/English 4 copies
Operation and maintenance manual	Chinese/English 4 copies
Electronic manual	4*USB stick in pdf format

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Subject to change without further notice!

United in Progress, Striving for Excellence

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