FAMBITION



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QINGDAO FAMBITION HEAVY MACHINERY CO.,LTD.

COMPANY PROFILE



QINGDAO FAMBITION HEAVY MACHINERY CO., LTD. is located in Qingdao, China, and is an established manufacturer of underground mining equipment. As a technology-leading enterprise, Fambition focuses on the R&D and manufacturing of underground loaders, dump trucks, development drill rigs, and auxiliary vehicles, establishing a comprehensive portfolio covering four major product series with over 100 specifications and models.

Fambition is a National High-tech Enterprise, a National-level Specialized, Sophisticated, Distinctive, and Innovative 'Little Giant' Enterprises, a Shandong Provincial "Little Giant" specializing in niche sectors, a Shandong Gazelle Enterprise, a Qingdao Hidden Champion Enterprise, and the Qingdao R&D Center of the National Key Laboratory for Intelligent Mining of Deep Metal Mines. It is also one of the drafting units for the national standard on underground auxiliary vehicles, a member of the Intelligent Mine Working Committee of the China Mining Association, and holds a leading position in China in areas such as intelligent mining of underground mines and new energy technology applications.

Fambition is committed to providing safe, reliable, and high-efficiency mining equipment for underground mines worldwide, helping mines improve production efficiency, reduce equipment life-cycle operating and maintenance costs, enhance production management levels, and achieve sustainable productivity.

QUALIFICATIONS AND HONORS



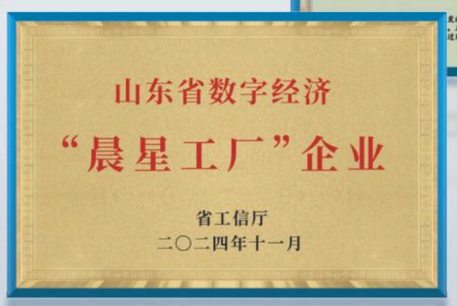


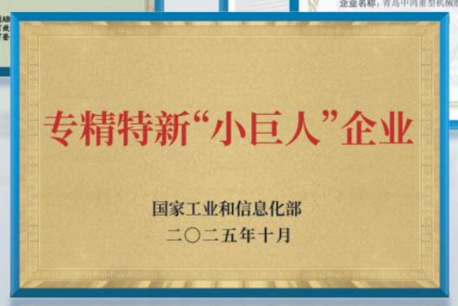


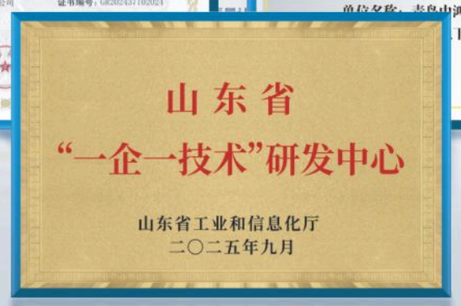


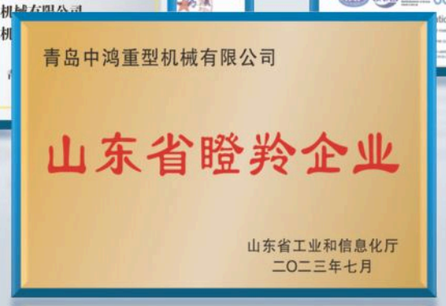














INTELLIGENT FACTORY

The final assembly workshop at Fambition Laixi Production Base covers 5,600 m^2. Built on a pulse-mixed production line model, it integrates AGV intelligent logistics and clean assembly systems to achieve full closed-loop control of key indicators such as torque and cleanliness, aiming to create benchmark products with outstanding performance and reliable quality. Fambition is with an annual capacity of over 6,00 units, capable of producing 4-25 tonne LHDs and 12-65 tonne trucks.

hestructural parts workshop achieves full in-house production covering plate cutting, pre-machining, welding, annealing, machining, and painting, with an annual capacity of over 700 units. This enables independent production of core structural parts and main products. To ensure machining quality, a new large floor-type boring mill has been introduced, allowing multiple processes to be completed in a single setup.

The assembly workshop adopts a team-based + assembly line model. Main models are produced on assembly lines to ensure consistent and stable product quality. Hydraulic component cleaning stations and dust-free assembly stations are also equipped to ensue that the overall machine cleanliness reaches NAS 8 class.

Digital transformation of ERP, MES, WMS and QMS systems has been implemented to enable seamless communication between multiple devices and systems, connecting end-to-end information flows. This enables digital factory operation, reduces administrative and operational costs, and improves manufacturing efficiency. By converting quantitative data into actionable insights, production management is professionalized and standardized, shifting the management approach from a statistical level to an analytical model.















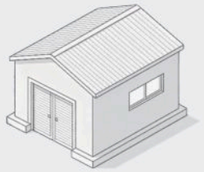




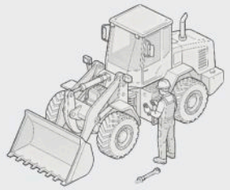
FULL LIFE CYCLE MANAGEMENT



Service Network



Spare Parts Management



Overhaul& Remanufacturing



Training Center

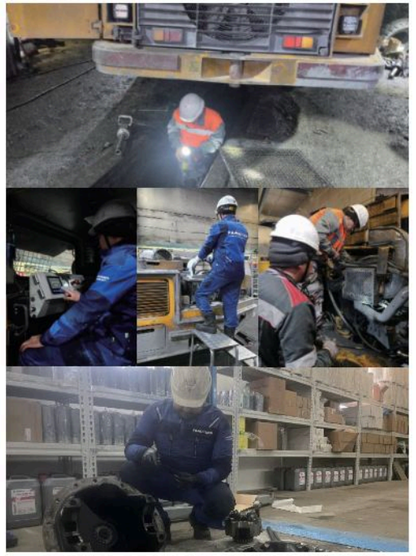
- Service System

  Fambition boasts a highly responsive and technically proficient after sales team with sufficient spare parts inventory. It has well established service management regulations, an overhaul center and standardized procedures for trackless equipment, as well as complete equipment operation records. Guided by the philosophy: “Efficient, premium and professional, delivering exceptional value added services anytime and anywhere”.

- Global Service Network

  We have built a multi dimensional sales network and localized service centers covering five continents across the globe, reaching major world economies, emerging markets and key regional markets. Relying on service stations located at key business nodes, we fully integrate full chain resources including product supply, technical support, after sales assurance, iterative upgrading and full lifecycle product management, to deliver tailor made integrated solutions for customers worldwide.





MAINTENANCE AND REPAIR SERVICE

122 — **Warranty Package**
Provide 12 months (1 year) or 2,000 hours of whole vehicle warranty.

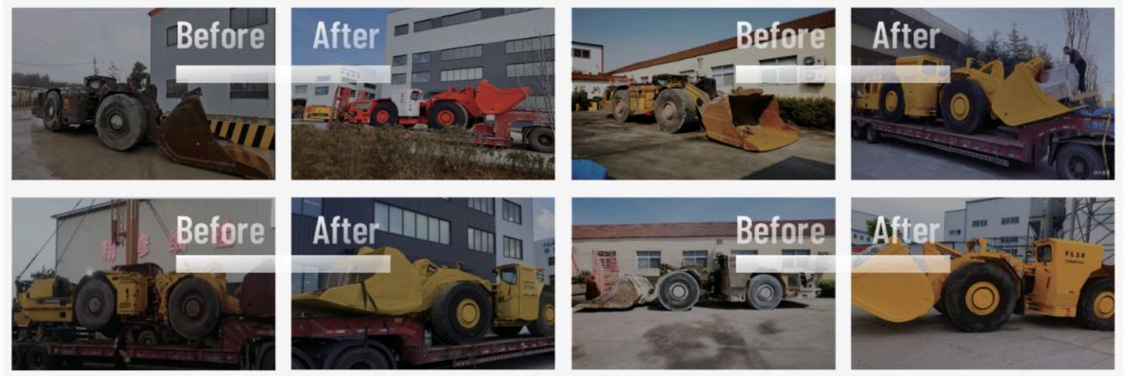
321 — **Butler Service**
Provide 3 times of equipment maintenance and inspection, 2 technical trainings during warranty, and issue 1 inspection report each time.

2471 — **Service Promise**
Arrive on-site within 24 hours, diagnose the fault within 7 hours, and restore production in 1 day.

EQUIPMENT REPAIR AND MAINTENANCE SERVICE

Adhering to a preventive maintenance service concept, combined with operating conditions, key components and the complete machine shall be overhauled promptly once they reach their designed service life.
After overhaul, the components and complete machine will achieve

- Standard: Fambition assembly standards, DANA axle and transmission, Volvo engine repair and service centre standards
- Inspection: Test bench inspection of key components
- Commissioning: Over 50 hours of simulated working condition operation testing
- Warranty: Covers assembly quality, parts quality, and system performance
- Traceability: Complete maintenance records



Deep Astral



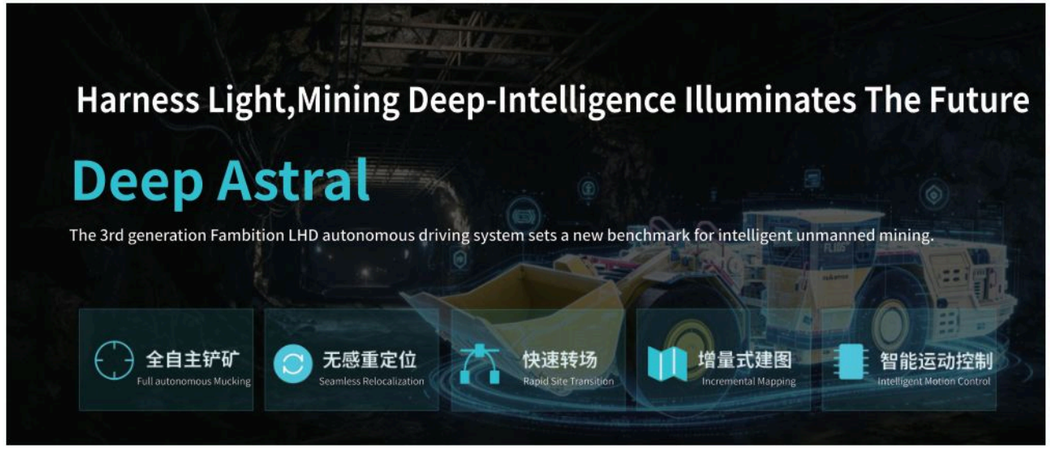
Deep Astral

Fambition DeepAstral remote autonomous driving system is tailor made for hard rock mining scenarios in non coal underground mines, widely applied in key operation links such as mucking, loading and haulage. Equipped with functions including beyond line of sight remote control, autonomous driving, autonomous mucking, autonomous dumping, production scheduling as well as data management and analysis, the system significantly improves operational efficiency and safety while cutting labor costs. Boasting strong compatibility, it fits multiple types of Fambition underground mining equipment, including underground diesel LHDs, cable powered LHDs, underground haulage trucks, battery powered LHDs and battery powered haulage trucks. It delivers a one stop solution for intelligent mine mining.

System functions & features

- Fully remote automatic intelligent driving cabin with ingot shaped industrial design, supporting one operator controls three units function
- Optical fiber transmission network; vehicle side adopts WiFi 6 or 5G transmission technology
- Full gigabit core industrial switch, self healing time ＜20
- ms for 250 switch deployment
- High reliability AI computing device with 200 TOPS computing power
- 3D solid state LiDAR, long service life and strong anti interference capability
- 3D mapping, precise positioning, automatic high speed cruise and obstacle avoidance
- Control cabinets and terminal devices feature IP67 protection rating, meeting mine safety requirements
- Equipped with safety access control system to reduce operational risks

FAMBITION

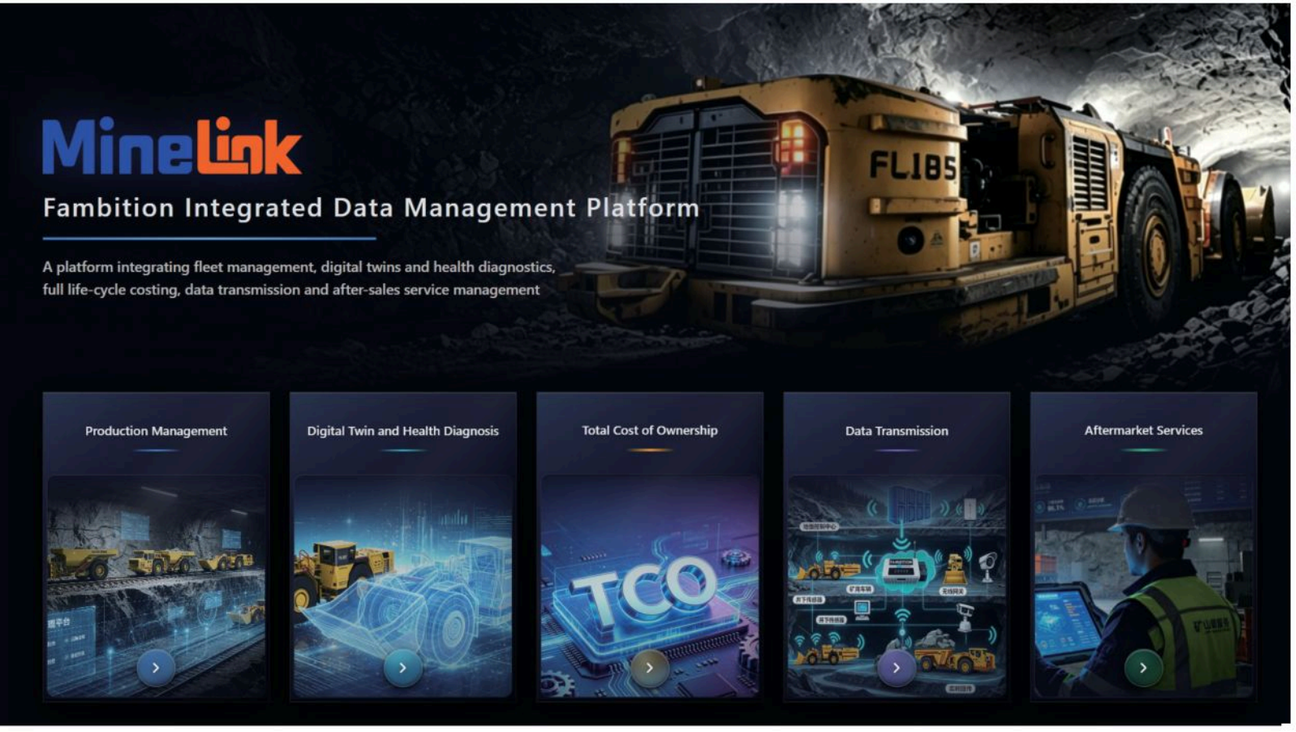


Production Data Management System

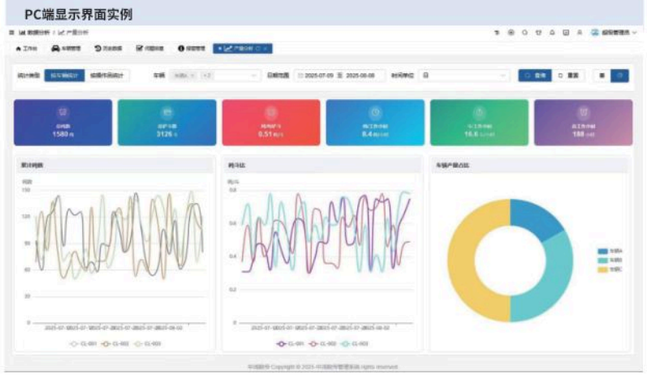
Data Management System	Store data such as production tasks, output and equipment information
Planning	Annual, monthly and weekly production planning & scheduling
Production	Production task issuance, vehicle status, work reporting statistics, task adjustment, etc.
Vehicles	Spare parts management, maintenance management, service management, vehicle ledgers, etc.
Faults	Fault alarm, display and recording, etc.
Analytics	Multi-dimensional statistics of output, fuel consumption, utilization rate, fuel consumption per ton, fault statistical analysis, etc.
Data	Management of factors related to production process, including construction units, team personnel, stope, ore pass, access control system, map, etc.
System	Parameter management



MineLink



PC端显示界面实例



Fleet Management

- Global Monitoring & Decision Support
- Full process Production Control
- Full life cycle Equipment Management
- Infrastructure & System Support

FAMBITION

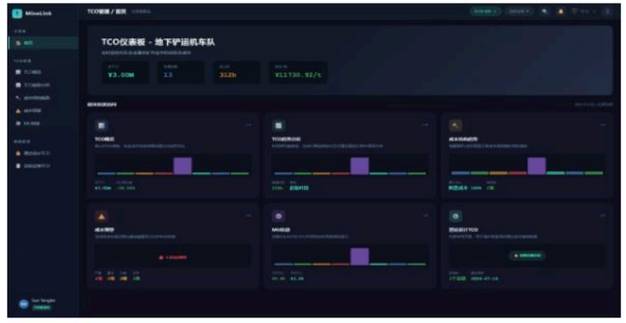


Digital Twin & Health Diagnosis

- 3D Digital Twin Visualization
- Real time Monitoring & Working condition Identification
- Health Inspection & Risk Diagnosis
- Data Playback & Historical Traceback

Full Life Cycle Cost

- Real time Cost Comparison & Early Warning
- One screen KPI Dashboard
- Three Key Indicators for Equipment Health
- Full process Operation Traceability





Data Transmission

- Data Management Hub
- Data Analysis Engine
- Convenient On site Operation
- High reliability Hardware

After sales Service

- Multi language Support
- Product Information Management
- Quick Parts Retrieval
- Spare part Order Placement







Product advantages

Full-cabin simulation:

Based on a high-precision simulated physical driving cabin and software system, systematic training can be conducted on the basis of simulating real LHD. This helps drivers master basic operations, tunnel driving norms and emergency procedures proficiently.

Immersive visual scene and sound effeet system:

Multi-view Display: Fully reproduces the visual views of the three-side glass of the cabin, supporting split-screen display. It allows simultaneous viewing or switching between the driver’ s first-person view (main screen) and the vehicle’ s top-down view (auxiliary screen), enhancing environmental perception and operation monitoring.

Realistic Environmental Sound Effects: Sounds such as engine roar, hydraulic movements, tire friction and alarm prompts are highly consistent with the actual operating environment.

Intelligent simulation control software:

Core: Based on a real physical engine, it accurately simulates the dynamics, hydraulics and power train of the LHD.

Scenarios: Contains at least one complete, high-precision typical underground tunnel operation scenario, and supports expansion.

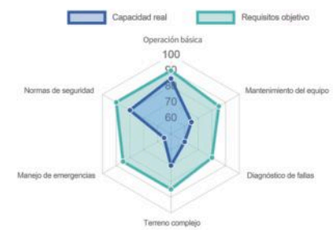
Training:

Realizes whole-process management of hierarchical training, emergency drills, fault simulation and assessment evaluation.

Equipment hardware	Intelligent training system
Main body of the cabin	Hierarchical courses
Operation system	Customized training
Simulation control hardware	Practical emergency drills
Software system	Equipment fault drills
Auxiliary equipment	System assessment

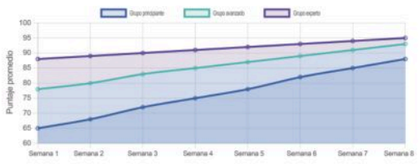
Simulator

The FAMBITION LHD simulator cockpit is designed based on real underground working environments and consists of a physical cabin that replicates the FL105 cabin at a 1:1 scale, along with a software simulation system. Specifically designed for pre-training of drivers in mines and system demonstrations, this system aims to enhance operators' driving skills, safety awareness, and emergency response capabilities, while significantly reducing unnecessary equipment wear and tear as well as training costs.



Data collection

Recording multi-dimensional data such as operation standardization, operation efficiency and emergency response time.



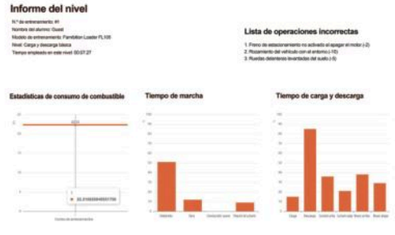
Automatic scoring

The system automatically scores the training process according to preset rules.



Data analysis

Visual display of training data and scores.



Report generation

For effect evaluation and summary.

FL25E



Performance

Standard bucket (SAE)	10 m³
Payload capacity	25,000 kg
Maximum Breakout Force	530 kN
Maximum Traction Force	450 kN
Grade ability	25 %

Dimensions

Length * Width * Height	14,568*4,100*3,187 mm
Steering Angle	±42.5°
Turning Radius	4,756/9,645 mm
Ground Clearance	532 mm
Machine Weight	77,600 kg

Motor Parameters

Travel Motor Power & Speed	315 kW/1492rpm
Hydraulic Motor Power & Speed	150 kW/1488rpm
Rated Voltage & Frequency	1000 V/50Hz

Power train

Torque Converter	Dana C9000
Gearbox	Dana 8000
Shift Type	Automatic & Manual Integrated Power Shift
Axle	Kessler D116
Tire	40/65-39I5 L-5S

Electrical System

CAN-bus Bus Communication Technology
Dynamic Monitoring of Operating Status, Fault Self-diagnosis
7-inch Touch Screen Display
Cable Length 330 m

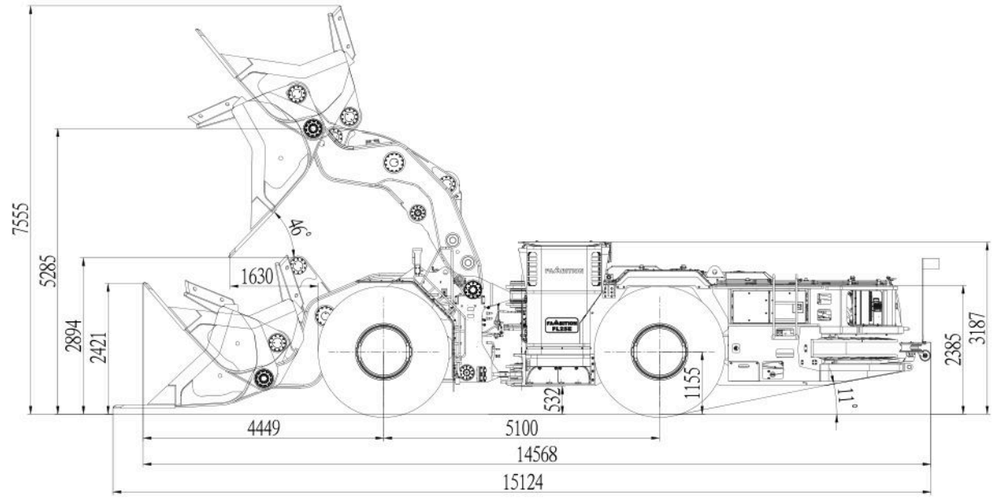
Options

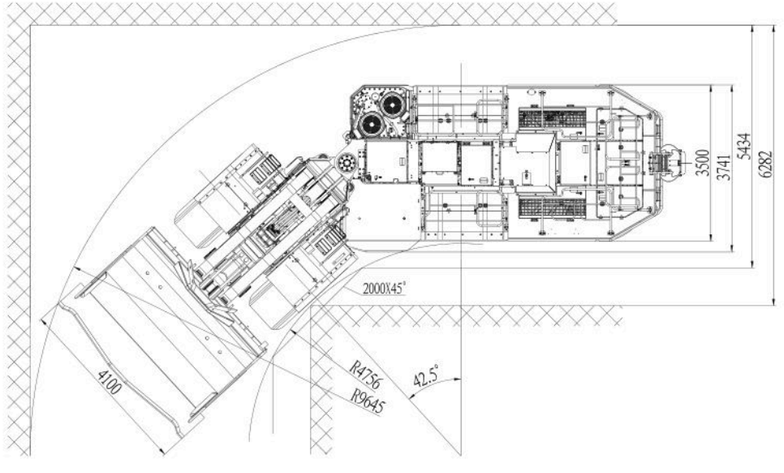
Weighing System
Camera Monitoring
Boom Floating, Smooth Travel
Electric Oil Pump
Remote Control System

FAMBITION

Feature

FL25E cable reeled electric LHD is a new generation intelligent load haul dump vehicle elaborately developed by Fambition Heavy Machinery for “loading, hauling and dumping” operations in global underground hard rock mines.
It has a payload capacity is 25t , compatible tunnel dimension width × height ⩾5.5×5.0m, and an operating radius ⩽ 300m. It can operate stably under wide range temperature from 20°C to 50°C and at altitudes below 3,000m, delivering outstanding working condition adaptability.





FL14E



Performance

Standard bucket (SAE)	6 m³
Payload capacity	14,000 kg
Maximum Breakout Force	246 kN
Maximum Traction Force	280 kN
Gradeability	21%

Dimensions

Length * Width * Height	11,200*2,853*2,587 mm
Steering Angle	±42.5°
Turning Radius	3,258/7,052 mm
Ground Clearance	386 mm
Machine Weight	39,000 kg

Motor Parameters

Travel Motor Power & Speed	132kw/1500rpm
Hydraulic Motor Power & Speed	45kw/1500rpm
Rated Voltage & Frequency	1000V/50HZ

Power train

Torque Converter	Dana C8600
Gearbox	Dana 6400
Shift Type	Automatic & Manual Integrated Power Shift
Axle	Kessler D106 (Dana 53R300D optional)
Tire	26.5-25 L-5S

Electrical System

Cable	450 mm²
Cable Length	300 m
Insulation Monitoring	Germany Bender
FET Electronic Technician	
Controller	HYDAC TTC60

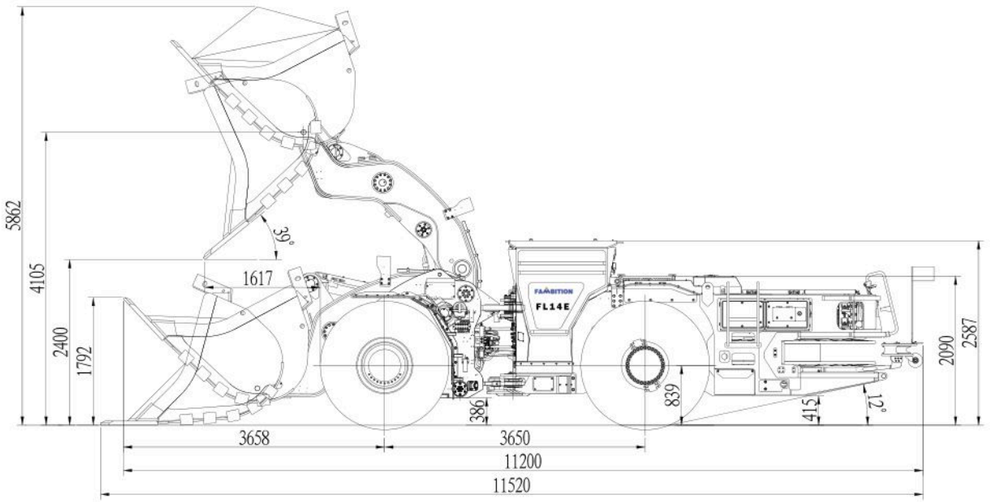
Main Devices

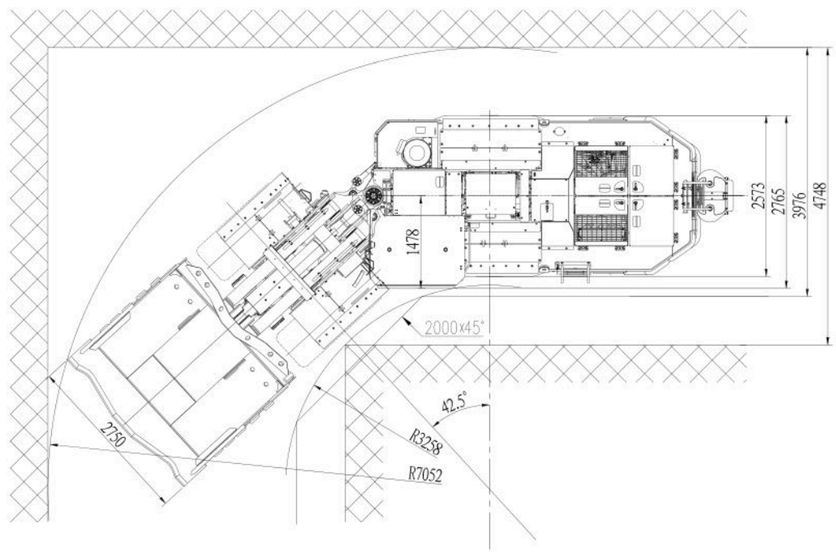
7 m³ Bucket or 5.4 m³ Dozer Blade with 7 m³
Automatic Central Lubrication
Boom Floating, Smooth Travel
Manual / Automatic Central Fire Suppression
Remote Control System

FAMBITION

Feature

FL14E Cable-reeled Electric LHD, developed by Fambition is a new generation intelligent LHD elaborately built for load-haul-dump operations in global underground hard rock mines. The machine has a rated load capacity of 14t. It adapts to roadway dimensions of width × height ⩾4.5×4.0m and an operating radius ⩽280m. It can operate stably in a wide temperature range of -20°C ~ 50°C and at altitudes below 3000m, delivering excellent adaptability to various working conditions.





FL10E



Performance	
Standard bucket (SAE)	4 m³
Payload capacity	10,000 kg
Maximum Breakout Force	188 kN
Maximum Traction Force	232 kN
Gradeability	25 %

Dimensions	
Length * Width * Height	10,592*2,635*2,390 mm
Steering Angle	42.5°
Turning Radius	3,199/6,632 mm
Ground Clearance	380 mm
Machine Weight	31,000 kg

Motor Parameters	
Travel Motor Power & Speed	110 kW/1487 rpm
Hydraulic Motor Power & Speed	45 kW/1482 rpm
Rated Voltage & Frequency	1000V/50HZ

Power train	
Torque Converter	Dana C5000
Gearbox	Dana R36000
Shift Type	Automatic & Manual Integrated Power Shift
Axle	Kessler D102 (Dana20D)
Tire	18.00-25, L-5S

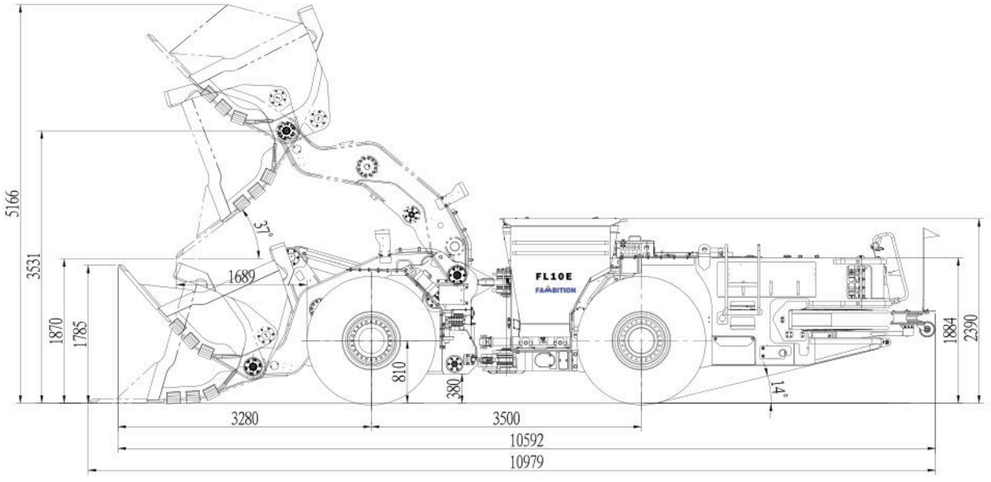
Electrical System	
Cable	435 mm²
Cable Length	300 m
Insulation Monitoring	Germany Bender
FET Electronic Technician	
Controller	HYDAC TTC60

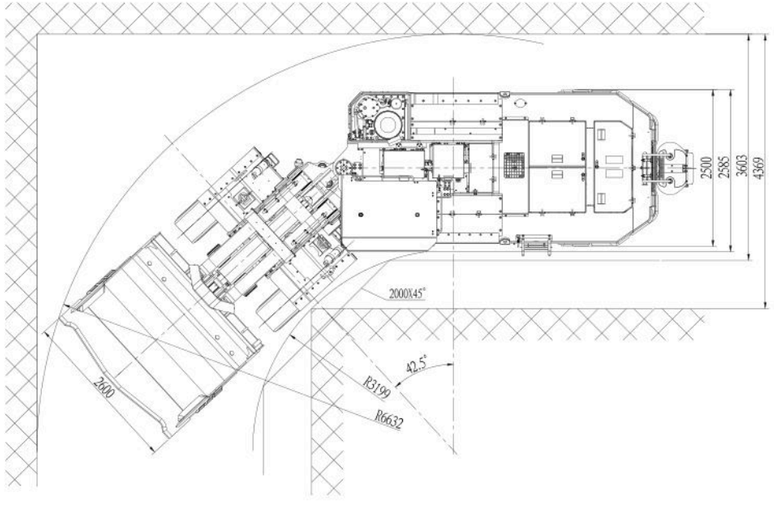
Main Devices
Tire Pressure Monitoring System
Automatic Central Lubrication
Boom Floating, Smooth Travel
Manual / Automatic Central Fire Suppression
Remote Control System

FAMBITION

Feature

FL10E Cable-reeled Electric LHD, developed by Fambition is a new generation intelligent LHD elaborately built for load-haul-dump operations in global underground hard rock mines. The machine has a rated load capacity of 10t. It adapts to roadway dimensions of width × height ⩾3.8×3.5m and an operating radius ⩽280m. It can operate stably in a wide temperature range of -20°C ~ 50°C and at altitudes below 3000m, delivering excellent adaptability to various working conditions.





FL07E



Performance

Standard bucket (SAE)	3 m³
Payload capacity	7,000 kg
Maximum Breakout Force	134 kN
Maximum Traction Force	156 kN
Gradeability	25 %

Dimensions

Length * Width * Height	9,639*2,324*2,248 mm
Steering Angle	42.5°
Turning Radius	2,757/5,910 mm
Ground Clearance	285 mm
Machine Weight	19,000 kg

Motor Parameters

Travel Motor Power & Speed	90 kW/1485 rpm
Hydraulic Motor Power & Speed	18.5 kW/1480 rpm
Rated Voltage & Frequency	1000V/50HZ

Power train

Gearbox	MTE 14400
Shift Type	Automatic & Manual Integrated Power Shift
Axle	Kessler D91
Tire	17.5-25-20 L-5S

Electrical System

Cable	4-core 435 mm²
Cable Length	200 m
Insulation Monitoring	Germany Bender
FET Electronic Technician FET	
Controller	EPEC 4602

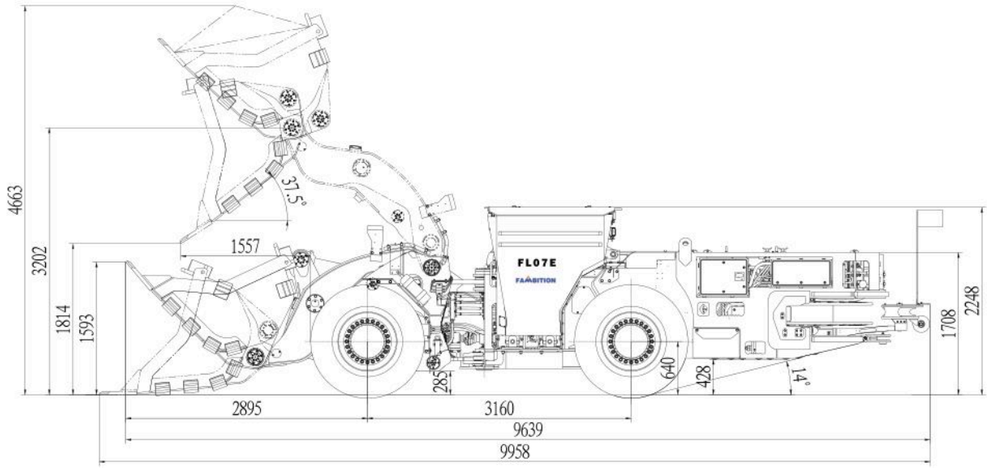
Main Devices

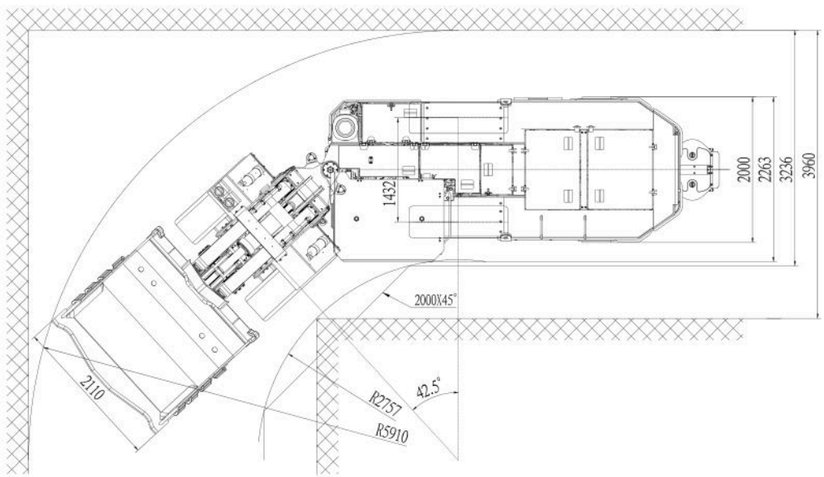
Line-of-sight Remote Control System
Auxiliary Steering
Manual / Automatic Central Fire Suppression
Electric Oil Pump
Intelligent Production Management System

FAMBITION

Feature

FL07E Cable-reeled Electric LHD, developed by Fambition is a new generation intelligent LHD elaborately built for load-haul-dump operations in global underground hard rock mines. The machine has a rated load capacity of 7t. It adapts to roadway dimensions of width × height ⩾3.5×3.5m and an operating radius ⩽180m. It can operate stably in a wide temperature range of -25°C ~ 45°C and at altitudes below 3000m, delivering excellent adaptability to various working conditions.





FL15B



Performance	
Standard bucket (SAE)	6.3 m³
Payload capacity	15,000 kg
Maximum Breakout Force	265 kN
Maximum Traction Force	360 kN
Gradeability	25 %

Dimensions	
Length * Width * Height	10,728*2,900*2,600 mm
Steering Angle	42.5°
Turning Radius	3,533/7,352 mm
Ground Clearance	386 mm
Machine Weigh	42,000 kg

Power Transmission System	
Travel Motor Power	245 kW/430 kW
Hydraulic Motor Power	162 kW/310 kW
Axle	Kessler D106
Tire	26.5R25 L-5S

Battery System	
Chemistry	LiFePO4
System Energy	423.9 kWh
System Capacity	980 Ah
Platform Voltage	614.4 V
Cooling Method	Liquid Cooling
Operating Charging Temperature Range	-10℃～55℃
Operating Discharging Temperature Range	-30℃～55℃
KA Charging Pile	2120 kW/380 VAC

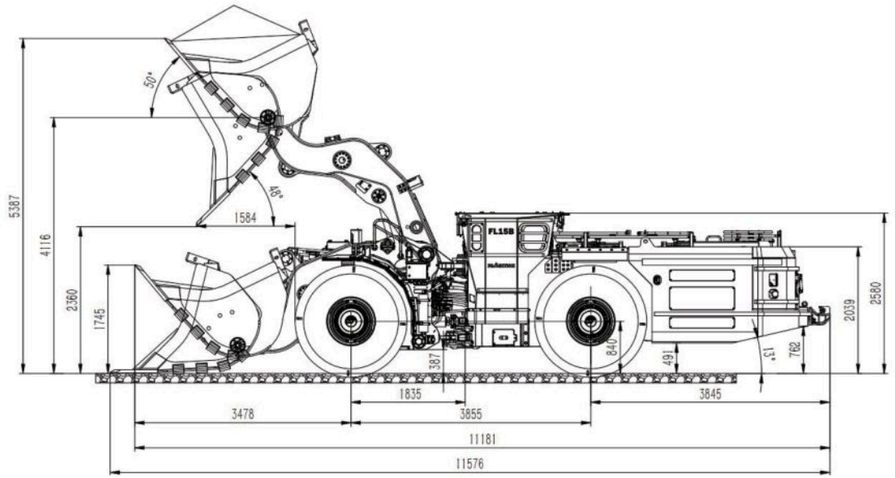
Main Options

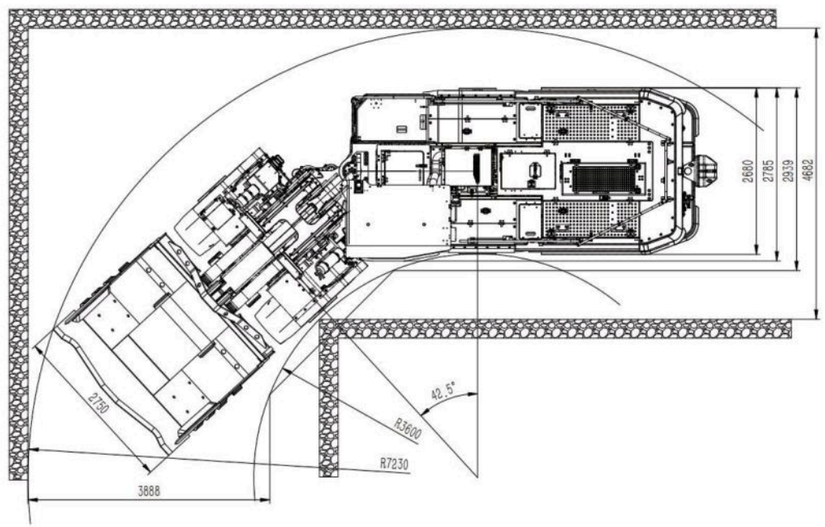
- 5.4 m³ Dozer Bucket 5.4 m³
- Emergency Brake Release System
- Manual / Automatic Central Fire Suppression
- Electric Oil Pump
- Intelligent Production Management System

FAMBITION

Feature

FL15B battery-powered LHD is a new generation of intelligent loader meticulously developed by Fambition for loading, hauling and dumping operations in underground hard rock mines worldwide. The machine has a rated load capacity of 15t, suitable for roadways with width × height ⩾4.8×3.5m. It can operate stably within a wide temperature range of -25°C to 45°C and at altitudes below 3000m, featuring excellent adaptability to various working conditions.





FL07B



Performance

Standard bucket (SAE)	3 m³
Payload capacity	7,000 kg
Maximum Breakout Force	134 kN
Maximum Traction Force	180 kN
Gradeability	3 %

Dimensions

Standard bucket (SAE)	9,432*2,243*2,248 mm
Payload capacity	42.5°
Turning Radius	2,930/5,977 mm
Ground Clearance	287 mm
Machine Weight	22,170 kg

Power Transmission System

Travel Motor Power	158 kW/341 kW
Hydraulic Motor Power	90 kW/172 kW
Axle	Kessler D91
Tire	17.5-25-20 L-5S

Main Options

Emergency Brake Release System
Manual / Automatic Central Fire Suppression
Electric Oil Pump
Intelligent Production Management System

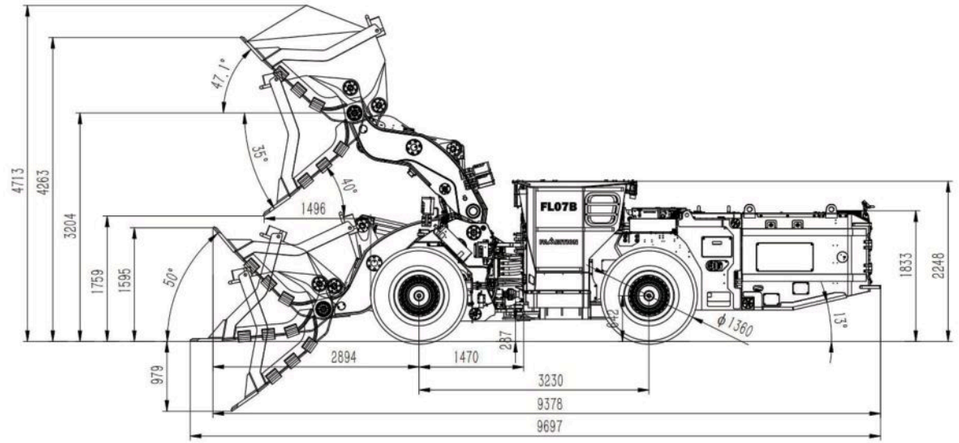
Battery System

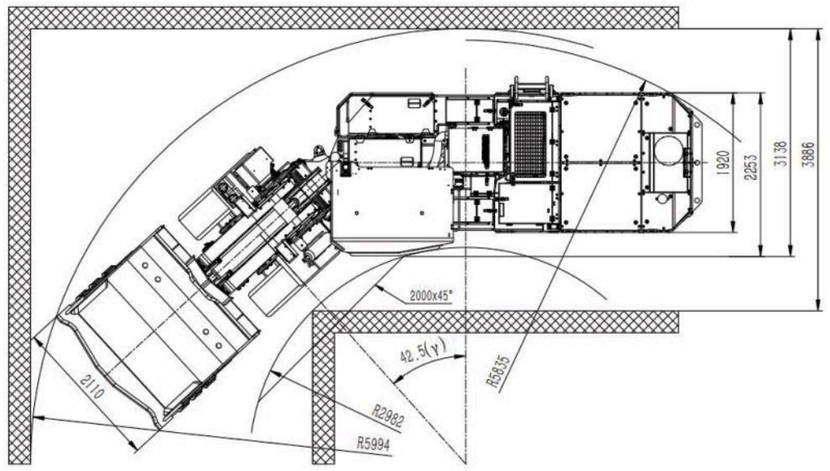
Chemistry	LiFePO4
System Energy	423.9 kWh
System Capacity	980 Ah
Platform Voltage	614.4 V
Cooling Method	Liquid Cooling
Charging Pile Power	300 kW
Input Voltage	330~438 V AC
Output Voltage	200~750 V DC
Operating Charging Temperature Range	-10℃～55℃
Operating Discharging Temperature Range	-30℃～55℃

FAMBITION

Feature

FL07B battery-powered LHD is a new generation of intelligent loader meticulously developed by Fambition for loading, hauling and dumping operations in underground hard rock mines worldwide. The machine has a rated load capacity of 7t, suitable for roadways with width × height ⩾3.5×3.5m. It can operate stably within a wide temperature range of -25°C to 45°C and at altitudes below 3000m, featuring excellent adaptability to various working conditions.





FL225



Performance	
Standard bucket (SAE)	8.5 m³
Payload capacity	22,000 kg
Maximum Breakout Force	330 kN
Maximum Traction Force	450 kN
Gradeability	23%
Empty Mass	61,000 kg

Dimensions	
Length	11,972 mm
Width	3,300 mm
Height	3,000 mm
Inner Turning Radius	3,717 mm
Outer Turning Radius	7,886 mm
Ground Clearance	490 mm

Engine	
Brand & Model	Volvo TAD1384VE
Rated Power	375 kW @ 1900 rpm
Output Torque	2592 Nm @ 1100 rpm
Emission Standard	Euro Stage V
Fuel Tank	780 L

Power train	
Gearbox	Dana CL9000
Torque Converter	Dana 8000
Shift Type	Electronic Power Shift
Axle	Kessler D116
Tire Model	35/65 R33 L-5S

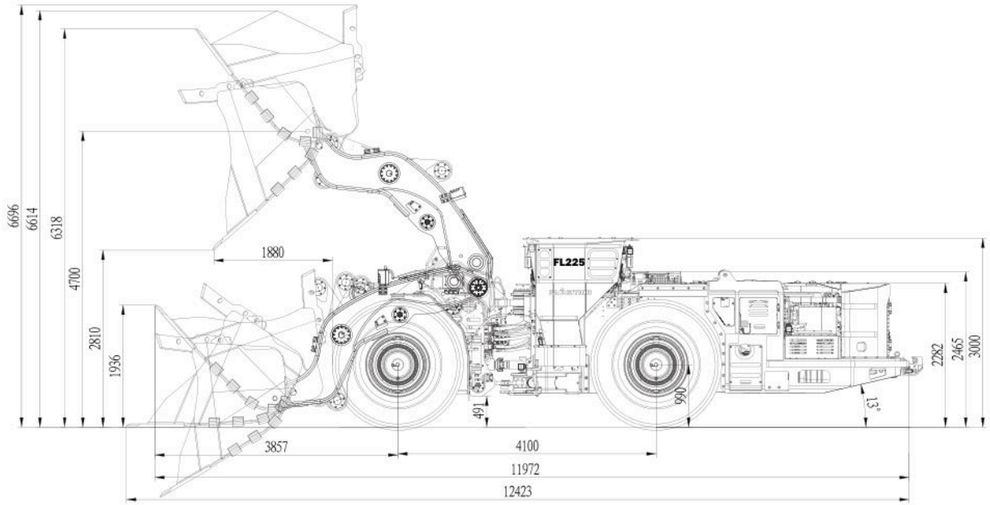
Travel Speed (Flat Ground, Full Load)	
1st Gear (Fwd/Rev)	4.9 km/h
2nd Gear (Fwd/Rev)	8.9 km/h
3rd Gear (Fwd/Rev)	15.6 km/h
4th Gear (Fwd/Rev)	27.9 km/h

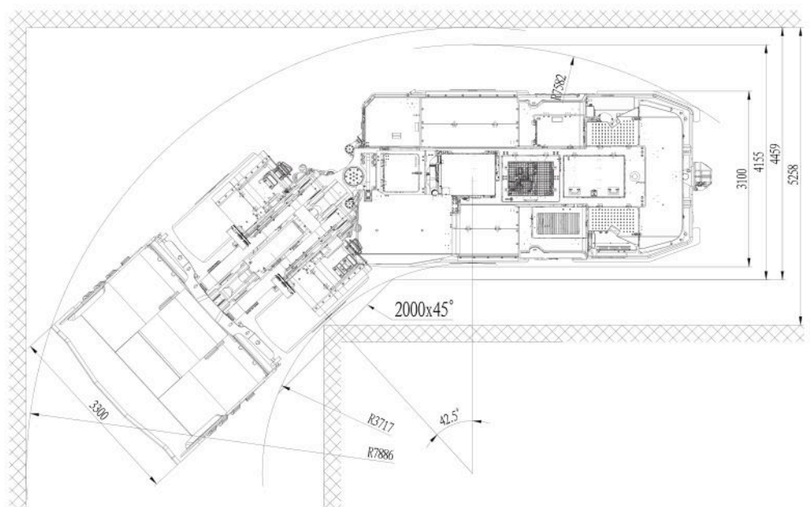
Options	
Travel Control	Weighing System
Traction Release Brake & Electric Oil Pump	
8.5 m³ GET Bucket	
Fambition Vehicle Data Transmission System	

FAMBITION

Feature

FL225 diesel LHD is a new generation intelligent loader developed by Fambition for loading, hauling and dumping in underground hard rock mines worldwide. Rated load 22t, suited for roadways of width × height ⩾6.0×5.0m. It operates reliably at -25°C~55°C and altitudes below 3000m, delivering outstanding working condition adaptability.





FL185



Performance	
Standard bucket (SAE)	7.5 m³
Payload capacity	18,000 kg
Maximum Breakout Force	290 kN
Maximum Traction Force	350 kN
Gradeability	25%
Empty Mass	54,000 kg

Dimensions	
Length	11,840 mm
Width	3,300 mm
Height	2,854 mm
Inner Turning Radius	3,764 mm
Outer Turning Radius	7,825 mm
Ground Clearance	472 mm

Engine	
Brand & Model	Volvo TAD1383VE
Rated Power	345 kW @ 1900 rpm
Output Torque	2384 Nm @ 1200 rpm
Emission Standard	Euro Stage V
Fuel Tank	730 L

Power train	
Torque Converter	Dana CL9000
Gearbox	Dana 8000
Axle	Kessler D111
Tire	29.5R29 L-5S
Shift Type	Electronic Power Shift

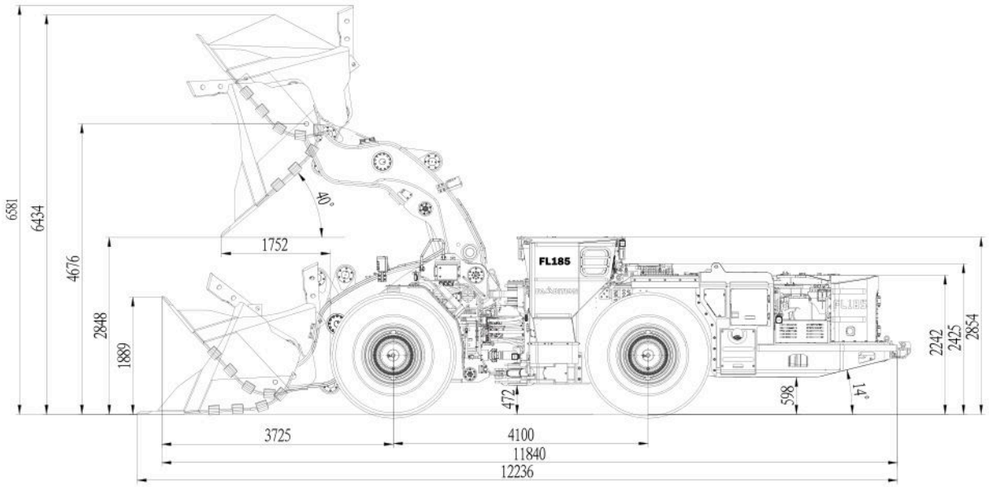
Travel Speed (Flat Ground, Full Load)	
1st Gear (Fwd/Rev)	5.3 km/h
2nd Gear (Fwd/Rev)	9.0 km/h
3rd Gear (Fwd/Rev)	16.5 km/h
4th Gear (Fwd/Rev)	25.0 km/h

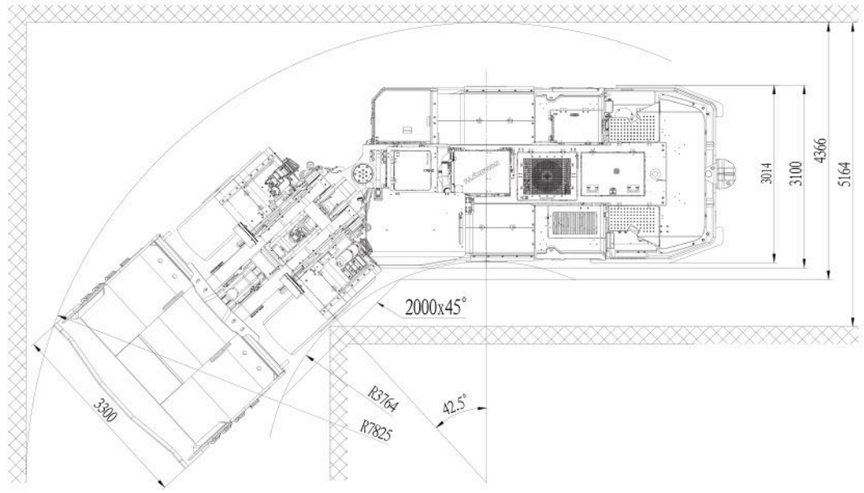
Options	
Automatic Central Fire Suppression System	
Proximity Detection Function	
Line-of-sight Remote Control / Long-distance Remote Control	
Traction Release Brake	360° Surround View 360°

FAMBITION

Feature

FL185 diesel LHD is a new generation intelligent loader developed by Fambition for loading, hauling and dumping in underground hard rock mines worldwide. Rated load 18t, suited for roadways of width × height ⩾5.0×4.5m. It operates reliably at -25°C~55°C and altitudes below 3000m, delivering outstanding working condition adaptability.





FL145



Performance	
Standard bucket (SAE)	6 m³
Payload capacity	14,000 kg
Maximum Breakout Force	265 kN
Maximum Traction Force	300 kN
Gradeability	25%
Empty Mass	39,000 kg

Dimensions	
Length*Width*Height	10,928*2,843*2,608 mm
Steering Angle	42.5°
Inner / Outer Turning Radius	3,268/7,052 mm
Ground Clearance	387 mm
Machine Weight	39,000 kg

Engine	
Brand & Model	Volvo TAD1181VE
Rated Power	265 kW @ 2100 rpm
Output Torque	1795 Nm @ 1400 rpm
Emission Standard	Euro Stage V
Fuel Tank	410 L

Power train	
Torque Converter	Dana C9600
Gearbox	Dana 6400
Shift Type	Electronic Power Shift
Axle	Kessler D106 (Optional: Dana53R300D)
Tire	26.5-25 L-5S

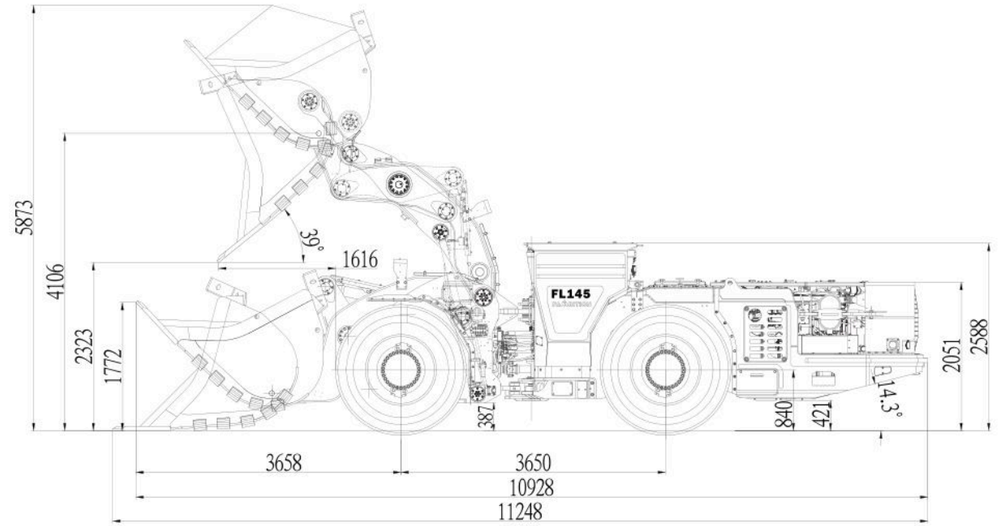
Travel Speed (Flat Ground, Full Load)	
1st Gear (Fwd/Rev)	4.7 km/h
2nd Gear (Fwd/Rev)	8.2 km/h
3rd Gear (Fwd/Rev)	14.1 km/h
4th Gear (Fwd/Rev)	24.6 km/h

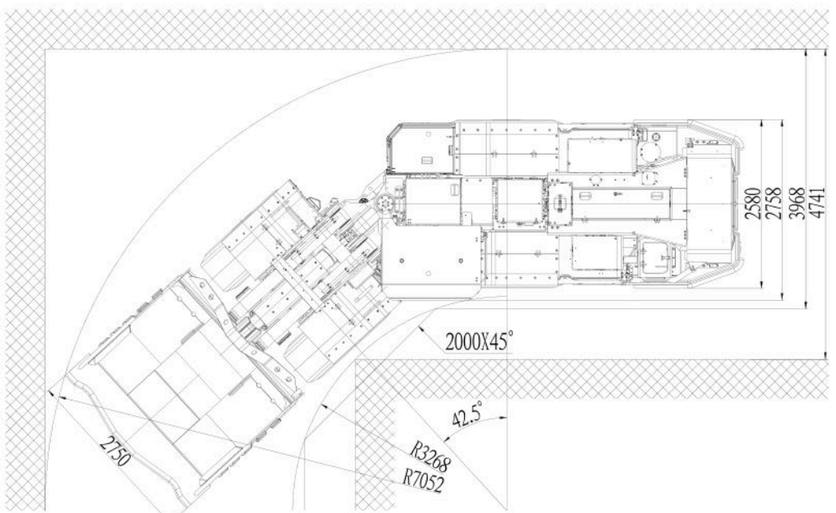
Options	
Automatic Central Fire Suppression System	
Proximity Detection Function	
Long-distance Remote Control	Traction Release Brake
Line-of-sight Remote Control	360° Surround View 360°

FAMBITION

Feature

FL145 diesel LHD is a new generation intelligent loader developed by Fambition for loading, hauling and dumping in underground hard rock mines worldwide. Rated load 14t, suited for roadways of width × height ⩾4.8×3.5m. It operates reliably at -25°C~50°C and altitudes below 3000m, delivering outstanding working condition adaptability.





FL105



Performance	
Standard bucket (SAE)	4 m³
Payload capacity	10,000 kg
Maximum Breakout Force	188 kN
Maximum Traction Force	200 kN
Gradeability	25 %
Empty Mass	30,400 kg

Dimensions	
Length	9,968 mm
Width	2,635 mm
Height	2,390 mm
Inner Turning Radius	3,719 mm
Outer Turning Radius	6,632 mm
Ground Clearance	380 mm

Engine	
Brand & Model	Volvo TAD883VE
Rated Power	235 kW @ 2200 rpm
Output Torque	1330 Nm @ 1400 rpm
Emission Standard	Euro Stage V
Fuel Tank	310 L

Power train	
Gearbox	Dana CL9000
Torque Converter	Dana 8000
Shift Type	Electronic Power Shift
Axle	Kessler D116
Tire Model	35/65 R33 L-5S

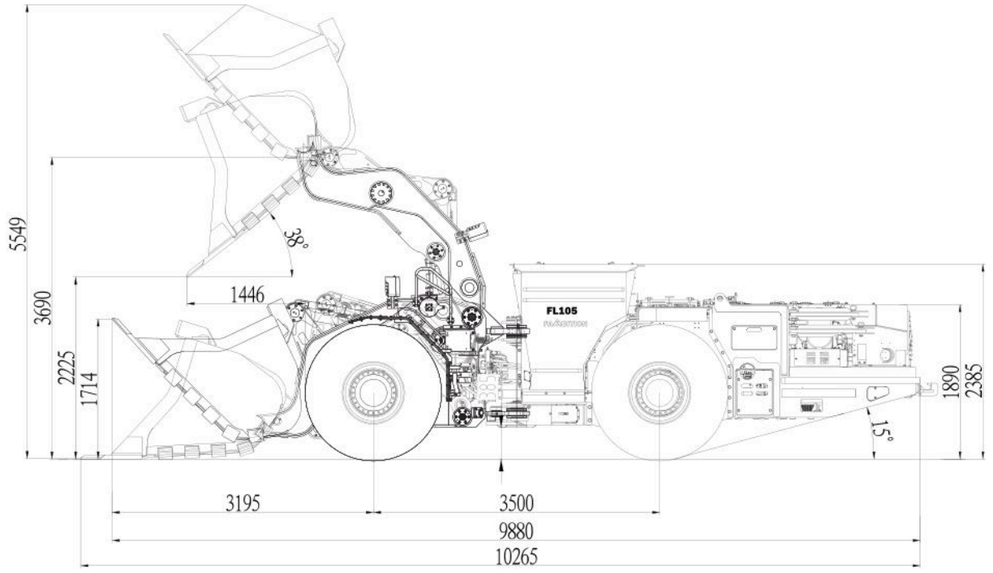
Travel Speed (Flat Ground, Full Load)	
1st Gear (Fwd/Rev)	4.5 km/h
2nd Gear (Fwd/Rev)	8.8 km/h
3rd Gear (Fwd/Rev)	14.7 km/h
4th Gear (Fwd/Rev)	25.0 km/h

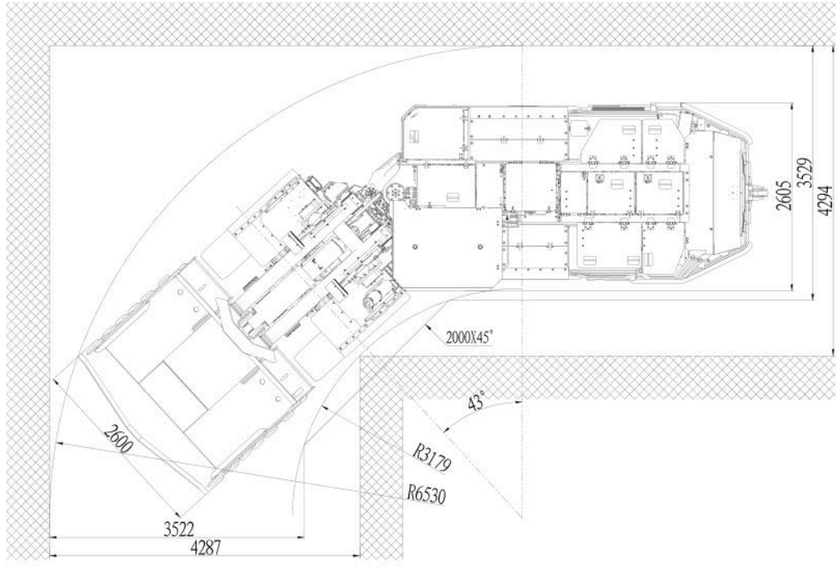
Options
Automatic Central Fire Suppression System
Traction Release Brake
Line-of-sight Remote Control System / Long-distance Remote Control System
Boom Suspension & Smooth Ride

FAMBITION

Feature

FL105 diesel LHD is a new generation intelligent loader developed by Fambition for loading, hauling and dumping in underground hard rock mines worldwide. Rated load 10t, suited for roadways of width × height ⩾3.8×3.8m. It operates reliably at -25°C~50°C and altitudes below 3000m, delivering outstanding working condition adaptability.





FL105+



Performance	
Standard bucket (SAE)	4 m³
Payload capacity	10,000 kg
Maximum Breakout Force	200 kN
Maximum Traction Force	270 kN
Gradeability	25 %
Empty Mass	31,500 kg

Dimensions	
Length	9,857 mm
Width	2,733 mm
Height	2,400 mm
Inner Turning Radius	3,316 mm
Outer Turning Radius	6,646 mm
Ground Clearance	385 mm

Engine	
Brand & Model	Volvo TAD883VE
Rated Power	235 kW @ 2,200 rpm
Output Torque	1330 Nm @ 1,400 rpm
Emission Standard	Euro Stage V
Fuel Tank	310 L

Power train	
Gearbox & Torque Converter	2F-4WG260
Shift Type	Auto-manual Power Shift
Axle	Kessler D102
Brake Type	Hydraulic Release Spring Brake
Tire Model	18.00-25-32 L-5S

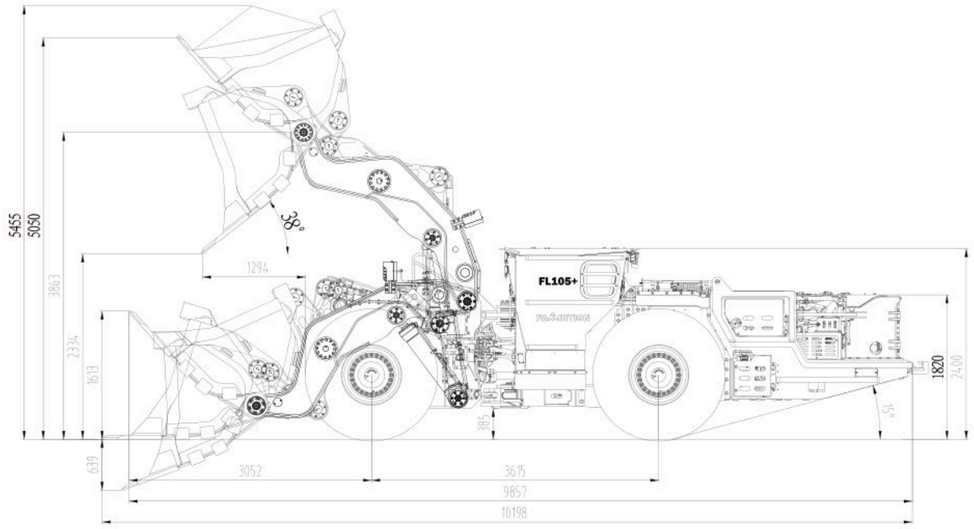
Travel Speed (Flat Ground, Full Load)	
1st Gear (Fwd/Rev)	4.4 km/h
2nd Gear (Fwd/Rev)	10.3 km/h
3rd Gear (Fwd/Rev)	21.4 km/h
4th Gear (Fwd/Rev)	25.0 km/h

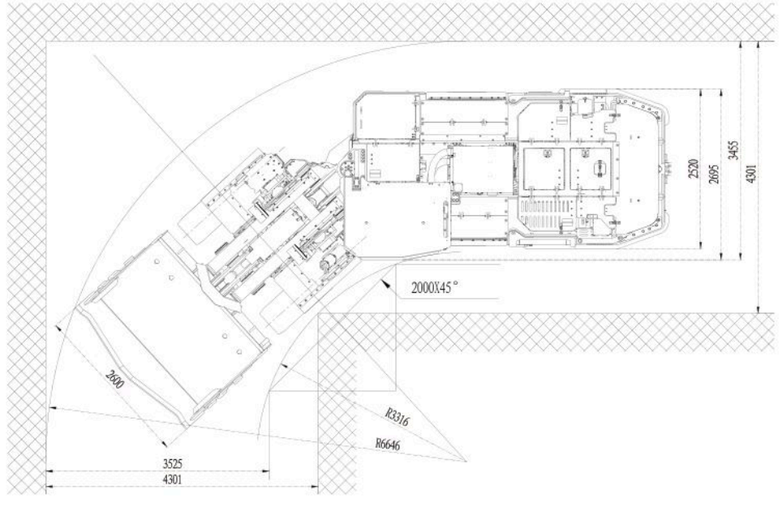
Options
Automatic Central Fire Suppression System
Traction Release Brake
Line-of-sight Remote Control System / Long-distance Remote Control System
Boom Suspension & Smooth Ride

FAMBITION

Feature

FL105+ diesel LHD is a new generation intelligent loader developed by Fambition for loading, hauling and dumping in underground hard rock mines worldwide. Rated load 10t, suited for roadways of width × height ⩾3.8×3.8m. It operates reliably at -25°C~55°C and altitudes below 3000m, delivering outstanding working condition adaptability.





FL075



Performance

Standard bucket (SAE)	3 m³
Payload capacity	7,000 kg
Maximum Breakout Force	134 kN
Maximum Traction Force	156 kN
Gradeability	25 %
Empty Mass	20,700 kg

Dimensions

Length	8,984 mm
Width	2,319 mm
Height	2,267 mm
Inner Turning Radius	2,762 mm
Outer Turning Radius	5,910 mm
Ground Clearance	286 mm

Engine

Brand & Model	Volvo TAD582VE
Rated Power	160 kW @ 2300 rpm
Output Torque	925 Nm @ 1380 rpm
Emission Standard	Euro Stage V
Fuel Tank	210 L

Power train

Torque Converter	Dana C270
Gearbox	Dana R32000
Shift Type	Auto-manual Power Shift
Axle	Kessler D91/Dana17D
Tire Model	17.5-25-20 L-5S

Travel Speed (Flat Ground, Full Load)

1st Gear (Fwd/Rev)	4.6 km/h
2nd Gear (Fwd/Rev)	9.50 km/h
3rd Gear (Fwd/Rev)	14.5 km/h
4th Gear (Fwd/Rev)	22.0 km/h

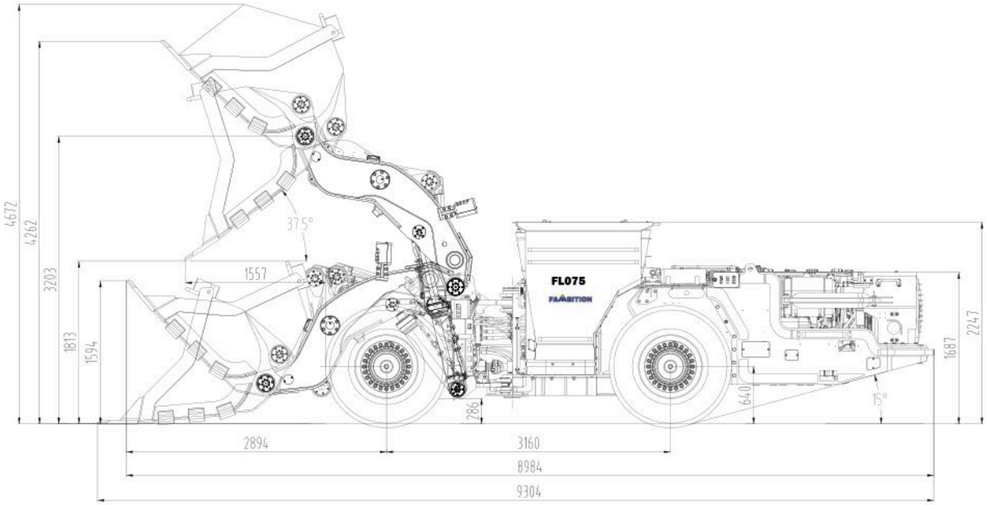
Options

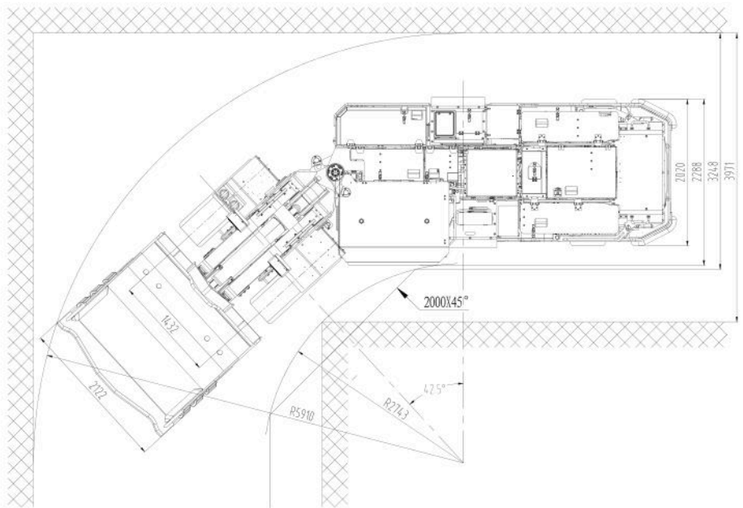
Automatic Central Fire Suppression	
Automatic Central Lubrication	
Line-of-sight Remote Control	
360° Surround View	Electric Oil Pump

FAMBITION

Feature

FL075 diesel LHD is a new generation intelligent loader developed by Fambition for loading, hauling and dumping in underground hard rock mines worldwide. Rated load 7t, suited for roadways of width × height ⩾3.5×3.5m. It operates reliably at -25°C~50°C and altitudes below 3000m, delivering outstanding working condition adaptability.





FL055



Performance	
Standard bucket (SAE)	2.5 m³
Payload capacity	5,000 kg
Maximum Breakout Force	85 kN
Maximum Traction Force	130 kN
Gradeability	25 %
Empty Mass	15,000 kg

Dimensions	
Length	7,780 mm
Width	1,888 mm
Height	2,170 mm
Inner Turning Radius	2,817 mm
Outer Turning Radius	5,242 mm
Ground Clearance	257 mm

Engine	
Brand & Model	Volvo TAD581VE
Rated Power	129 kW @ 2300 rpm
Output Torque	800 Nm @ 1300 rpm
Emission Standard	Euro Stage V
Fuel Tank	150 L

Power train	
Torque Converter & Gearbox	Dana C270&Dana 32000
Shift Type	Auto-manual Power Shift
Axle	Kessler D81
Brake Type	Hydraulic Release Spring Brake
Tire Model	12.00-24 L-5S

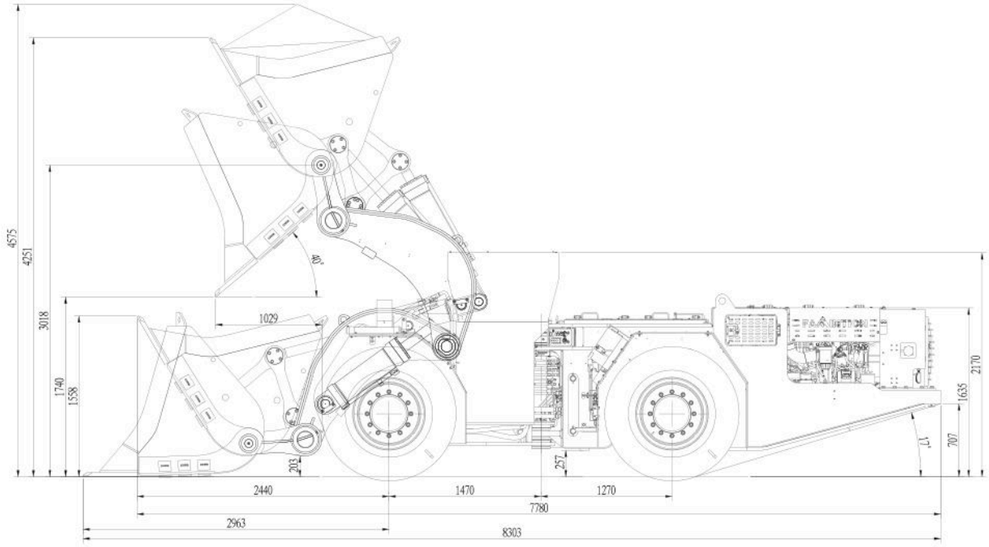
Travel Speed (Flat Ground, Full Load)	
1st Gear (Fwd/Rev)	4.9 km/h
2nd Gear (Fwd/Rev)	9.0 km/h
3rd Gear (Fwd/Rev)	14.5 km/h
4th Gear (Fwd/Rev)	22.0 km/h

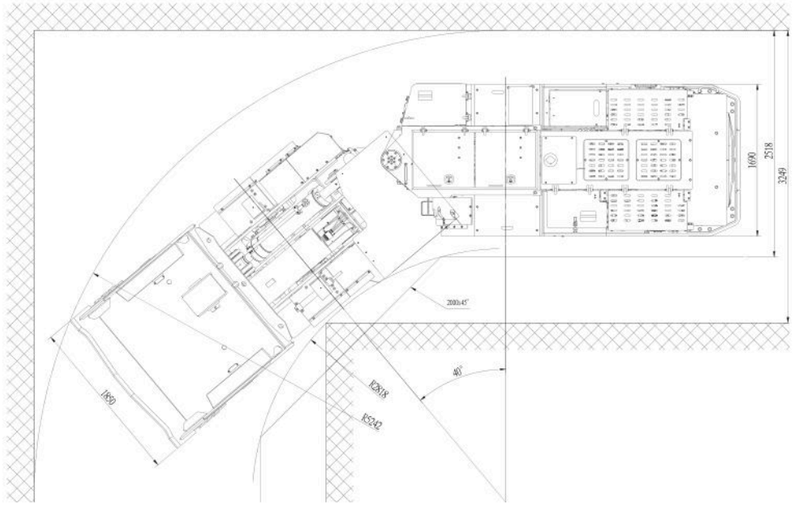
Options
Automatic Central Fire Suppression
Automatic Central Lubrication
Wheel Chocks
Travel Direction Indicator (Traffic Light)

FAMBITION

Feature

FL055 diesel LHD is a new generation intelligent loader developed by Fambition for loading, hauling and dumping in underground hard rock mines worldwide. Rated load 5t, suited for roadways of width × height ⩾3.0×2.8m. It operates reliably at -20°C~50°C and altitudes below 3000m, delivering outstanding working condition adaptability.





FT455



Performance	
Standard bucket (SAE)	22 m³
Payload capacity	45,000 kg
Maximum Traction Force	485 kN
Gradeability	25%
Empty Mass	39,500 kg

Dimensions	
Length	10,696 mm
Width	3,180 mm
Height	2,899 mm
Inner Turning Radius	5,067 mm
Outer Turning Radius	9,140 mm

Engine	
Brand & Model	Volvo TAD1385VE
Rated Power	405 kW @ 1,800 rpm
Output Torque	2,650 Nm @ 1,200 rpm
Emission Standard	Euro Stage V
Fuel Tank Capacity	760 L

Power train	
Torque Converter	Dana CL9000
Gearbox	Dana 8000
Axle	Kessler D106
Brake Type	Hydraulic Release Spring Brake
Tire Model	29.5R25 E4

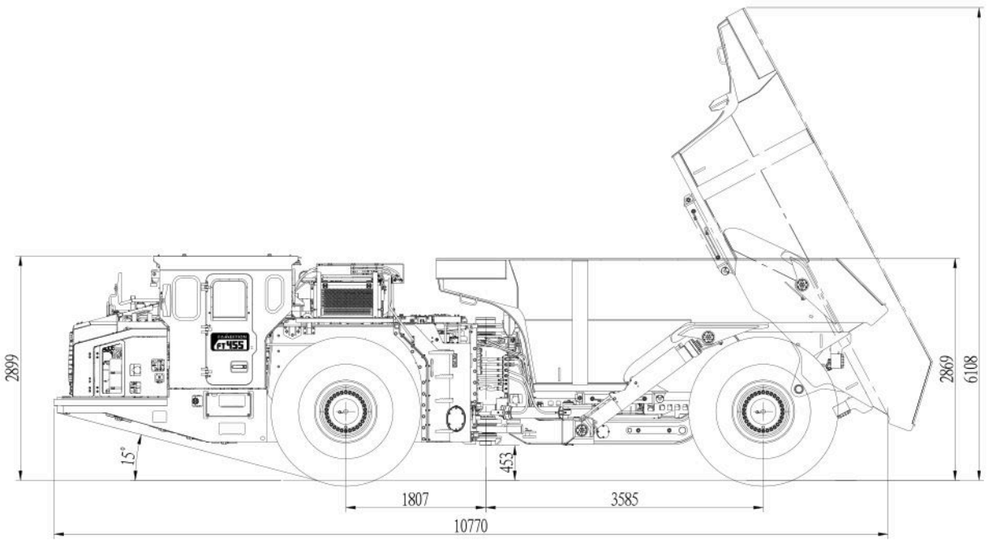
Travel Speed (Flat Ground, Full Load)	
1st Gear	5.4 km/h
2nd Gear	7.1 km/h
3rd Gear	9.8 km/h
4th Gear	12.9 km/h
5th Gear	17.1 km/h
6th Gear	22.6 km/h
7th Gear	30.6 km/h

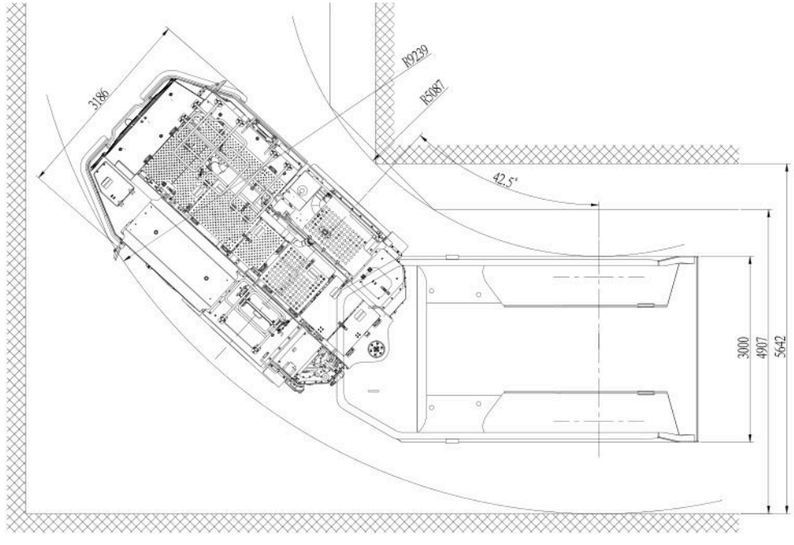
Options
Heater & Air Conditioning
Automatic Central Fire Suppression
Automatic Central Lubrication
20 m³ & 26 m³ Cargo Box
Air Suspension Seat

FAMBITION

Feature

FT455 underground mining truck is a new generation of intelligent articulated truck carefully developed by FAMBITION for ore haulage operations in global underground hard rock mines. It has a rated load capacity of 45t. The applicable tunnel dimension is width × height ⩾4.8×3.8m. It can operate stably in a wide temperature range of -20°C to 50°C and at altitudes below 3000m, featuring excellent working condition adaptability.





FT305



Performance	
Standard bucket (SAE)	16 m³
Payload capacity	30,000 kg
Maximum Traction Force	310 kN
Gradeability	25%
Empty Mass	32,600 kg

Dimensions	
Length	10,511 mm
Width	2,978 mm
Height	2,670 mm
Inner Turning Radius	4,808 mm
Outer Turning Radius	8,788 mm

Engine	
Brand & Model	Volvo TAD1382VE
Rated Power	315 kW @ 1,900 rpm
Output Torque	2,175 Nm @ 1,200 rpm
Emission Standard	Euro Stage V
Fuel Tank Capacity	430 L

Power train	
Torque Converter	Dana CL8000
Gearbox	Dana 6000
Axle	Kessler D102
Brake Type	Hydraulic Release Spring Brake
Tire Model	26.5R25 E4

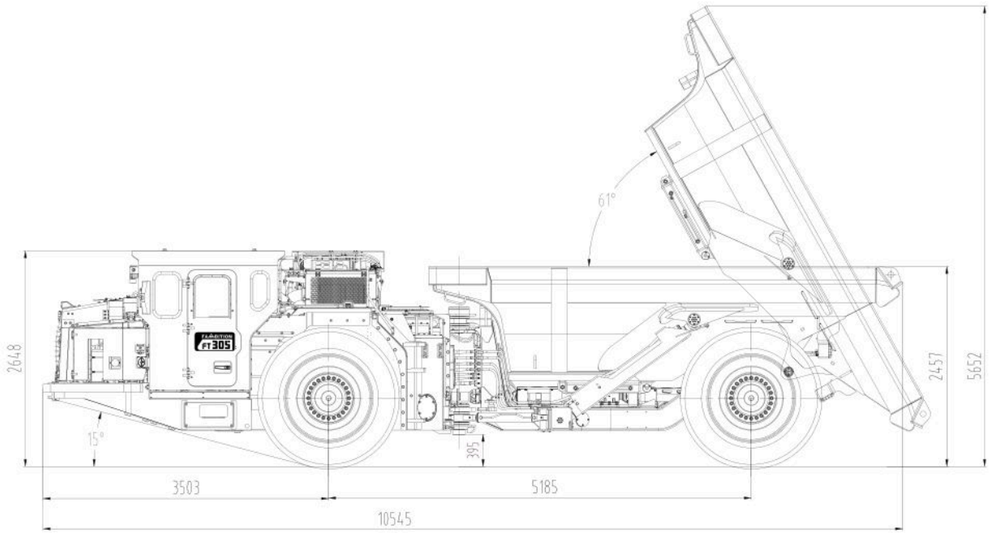
Travel Speed (Flat Ground, Full Load)	
1st Gear	5.9 km/h
2nd Gear	10.2 km/h
3rd Gear	17.7 km/h
4th Gear	30.4 km/h

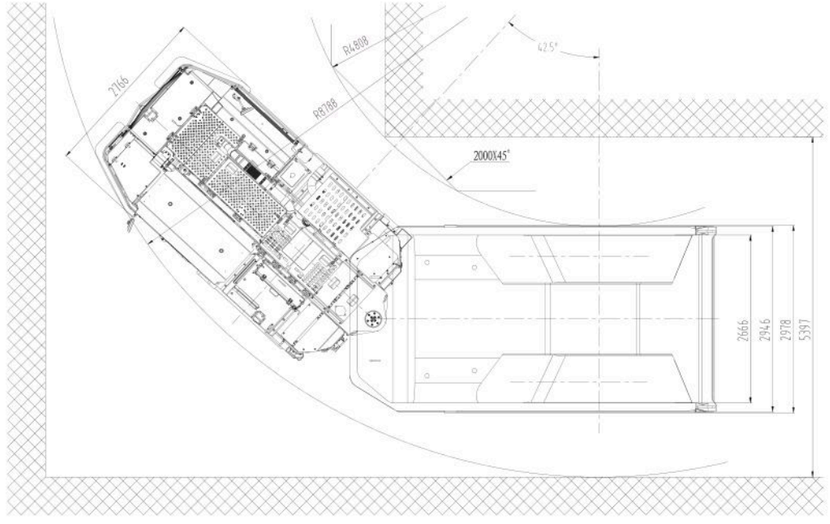
Options
Heater & Air Conditioning
Automatic Central Fire Suppression
Manual Central Lubrication
Weighing System
Eddy Current Retarder

FAMBITION

Feature

FT305 underground mining truck is a new generation of intelligent articulated truck carefully developed by FAMBITION for ore haulage operations in global underground hard rock mines. It has a rated load capacity of 30t. The applicable tunnel dimension is width × height ⩾4.3×3.5m. It can operate stably in a wide temperature range of -20°C to 50°C and at altitudes below 3000m, featuring excellent working condition adaptability.





FT225



Performance

Standard bucket (SAE)	10 m³
Payload capacity	22,000 kg
Maximum Traction Force	233 kN
Gradeability	25%
Empty Mass	23,000 kg

Dimensions

Length	9,260 mm
Width	2,400 mm
Height	2,483 mm
Inner Turning Radius	4,540 mm
Outer Turning Radius	7,667 mm

Engine

Brand & Model	Volvo TAD884VE
Rated Power	250 kW @ 2,200 rpm
Output Torque	1,360 Nm @ 1,400 rpm
Emission Standard	Euro Stage V
Fuel Tank Capacity	370 L

Power train

Torque Converter	Dana-CL8500
Gearbox	Dana 6400
Axle	Kessler D91
Brake Type	Hydraulic Release Spring Brake
Tire Model	18.00R25 E4

Travel Speed (Flat Ground, Full Load)

1st Gear	5.1 km/h
2nd Gear	9.1 km/h
3rd Gear	16.1 km/h
4th Gear	28.7 km/h

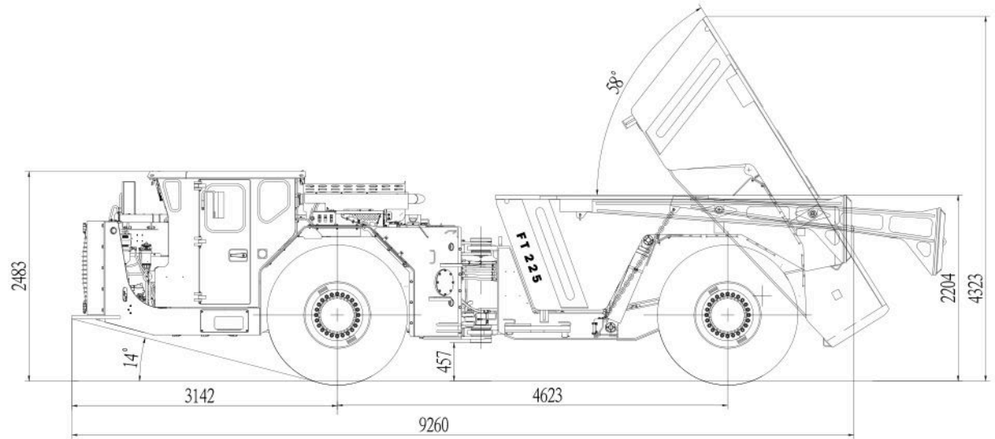
Options

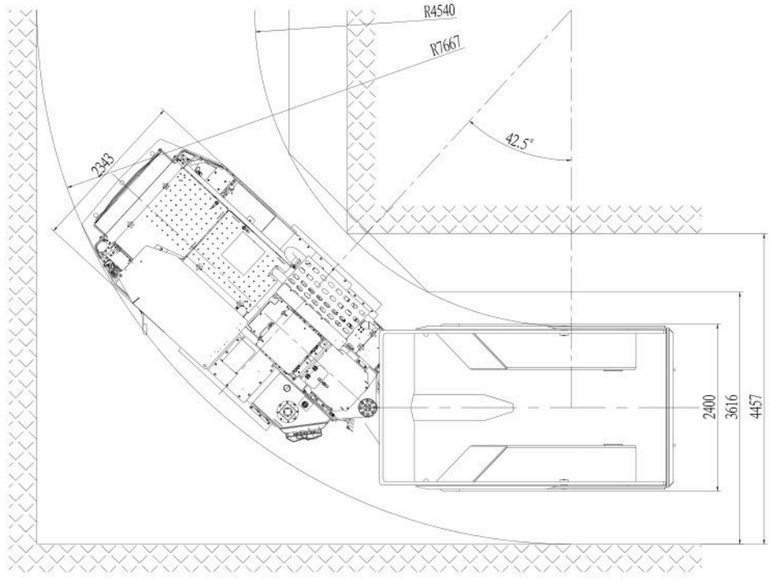
Heater & Air Conditioning
Automatic Central Fire Suppression
Automatic Central Lubrication
11 m³ Bucket

FAMBITION

Feature

FT225 underground mining truck is a new generation of intelligent articulated truck carefully developed by FAMBITION for ore haulage operations in global underground hard rock mines. It has a rated load capacity of 22t. The applicable tunnel dimension is width × height ⩾4.3×3.5m. It can operate stably in a wide temperature range of -20°C to 50°C and at altitudes below 3000m, featuring excellent working condition adaptability.





FT155



Performance

Standard bucket (SAE)	7.5 m³
Payload capacity	15,000 kg
Maximum Traction Force	170 kN
Gradeability	25%
Empty Mass	17,300 kg

Dimensions

Length	7,725 mm
Width	2,250 mm
Height	2,300 mm
Inner Turning Radius	4,155 mm
Outer Turning Radius	6,580 mm

Engine

Brand & Model	Cummins B6.7CS4
Rated Power	162 kW @ 2,200 rpm
Output Torque	1,000 Nm @ 1,400 rpm
Emission Standard	Euro Stage V
Fuel Tank Capacity	230 L

Power train

Torque Converter	Dana C323
Gearbox	Dana R32000
Axle	Kessler D91/Dana 17D
Brake Type	Hydraulic Release Spring Brake
Tire Model	17.5-25 E4

Travel Speed (Flat Ground, Full Load)

1st Gear	4.4 km/h
2nd Gear	8.8 km/h
3rd Gear	14.0 km/h
4th Gear	24.0 km/h

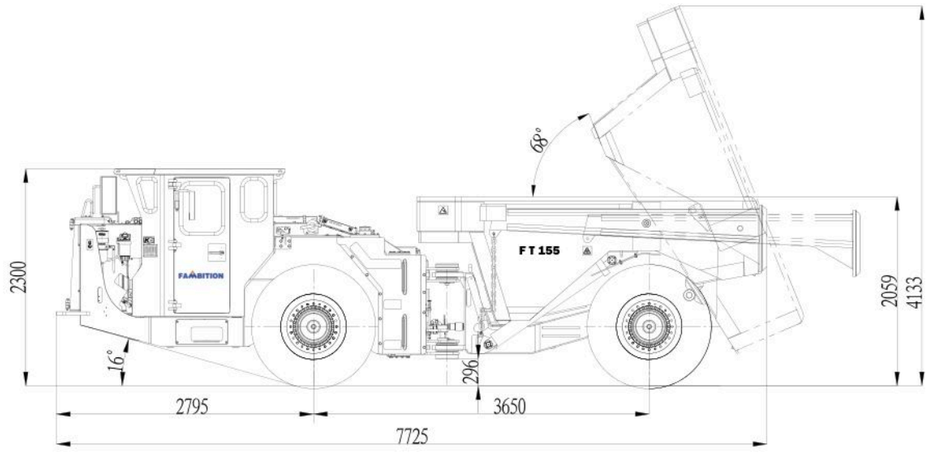
Options

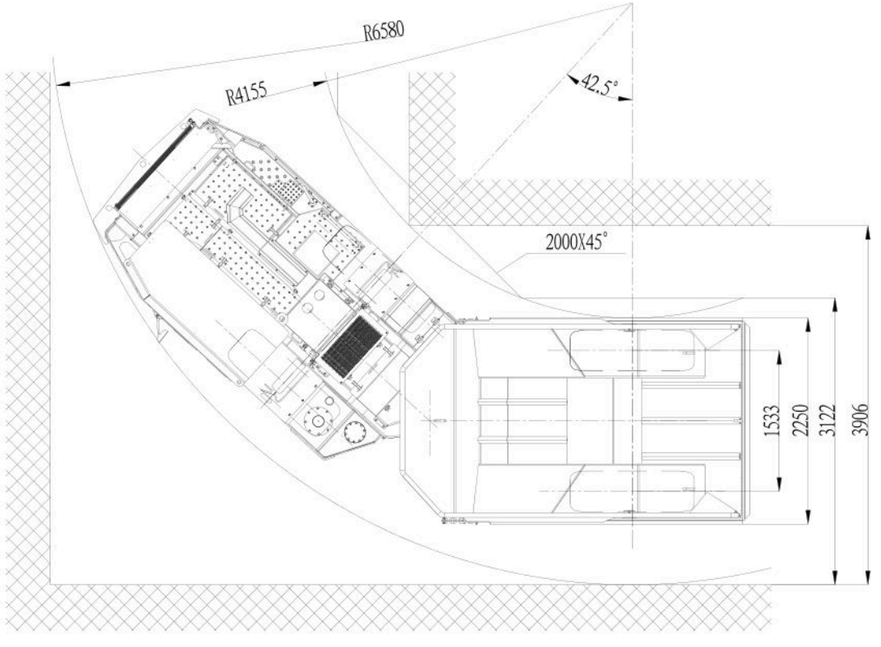
Manual / Automatic Central Fire Suppression
Automatic Central Lubrication
Electric Oil Pump
Heater & Air Conditioning

FAMBITION

Feature

FT155 underground mining truck is a new generation of intelligent articulated truck carefully developed by FAMBITION for ore haulage operations in global underground hard rock mines. It has a rated load capacity of 15t. The applicable tunnel dimension is width × height ⩾3.5×3.0m. It can operate stably in a wide temperature range of -25°C to 45°C and at altitudes below 3000m, featuring excellent working condition adaptability.





FT125



Performance	
Standard bucket (SAE)	6 m³
Payload capacity	12,000 kg
Maximum Traction Force	167 kN
Gradeability	25%
Empty Mass	16,700 kg

Dimensions	
Length	7,725 mm
Width	2,230 mm
Height	2,300 mm
Inner Turning Radius	4,155 mm
Outer Turning Radius	6,580 mm

Engine	
Brand & Model	DCE Cummins B6.7CS4
Rated Power	162 kW @ 2200 rpm
Output Torque	1000 Nm @ 1400 rpm
Emission Standard	Euro Stage V
Fuel Tank Capacity	230 L

Power train	
Torque Converter	Dana C323
Gearbox	Dana R32000
Axle	Kessler D91
Brake Type	Hydraulic Release Spring Brake
Tire Model	17.5-25 E4

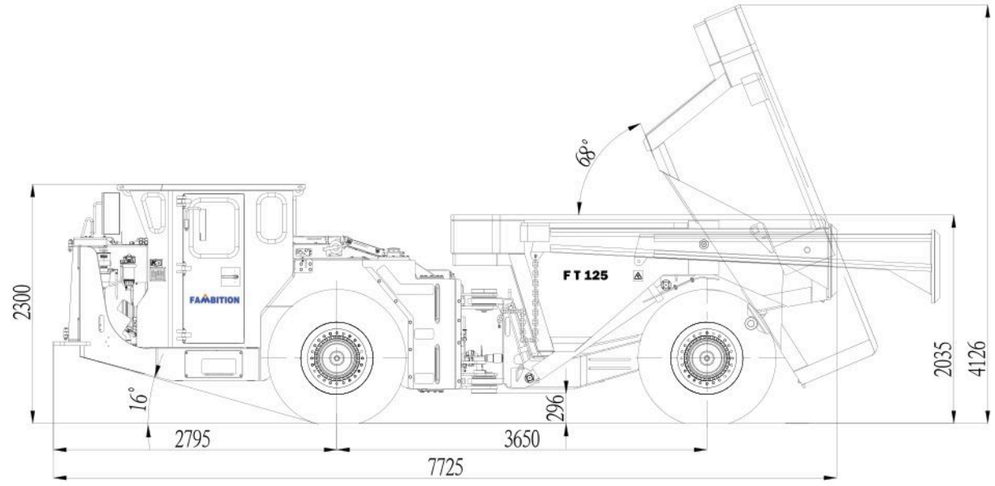
Travel Speed (Flat Ground, Full Load)	
1st Gear	4.4 km/h
2nd Gear	8.8 km/h
3rd Gear	14.0 km/h
4th Gear	24.0 km/h

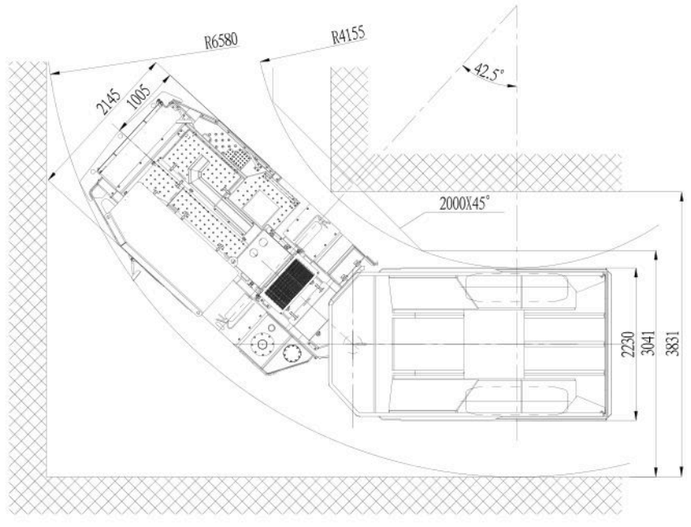
Options
Manual / Automatic Central Fire Suppression
Automatic Central Lubrication
Electric Oil Pump
7.5 m³ Bucket

FAMBITION

Feature

FT125 underground mining truck is a new generation of intelligent articulated truck carefully developed by FAMBITION for ore haulage operations in global underground hard rock mines. It has a rated load capacity of 12t. The applicable tunnel dimension is width × height ⩾3.5×3.0m. It can operate stably in a wide temperature range of -25°C to 45°C and at altitudes below 3000m, featuring excellent working condition adaptability.





FT225



Performance	
Coverage Area	34 m²
Feed Beam	1 * FDF600-12' (12' rods)
Drilling Depth	3440 mm (12' rods)
Transport Width	1600 mm
Transport Height	2070 mm/2750 mm
Transport Length	10065 mm (FDF-600-12')
Machine Weight	11600 kg

Rock Drill	
Model	(MONTABERT) HC95
Impact Power	20 kW
Impact Pressure	Max. 180 bar
Frequency	55-63 Hz
Hole Diameter	43-64 mm
Reaming Diameter	76-127 mm
Shank	T38 (male)

Hydraulic System	
Motor	55 kW
Drive Type	Hydraulic Drive
Hydraulic Oil Tank Capacity	200 L
Refueling Type	Electric Refueling
Hydraulic Oil Cooling Type	Water-injection hydraulic oil cooler (30 kW)

Chassis	
Chassis Type	Central Articulated
Steering Angle	±35°
Rear Axle Swing Angle	±6°
Diesel Engine	Deutz TCD3.6L4 (74 kW, China Stage IV)
Travel Speed	0-8 km/h (flat road), 0-4 km/h (14% gradient)

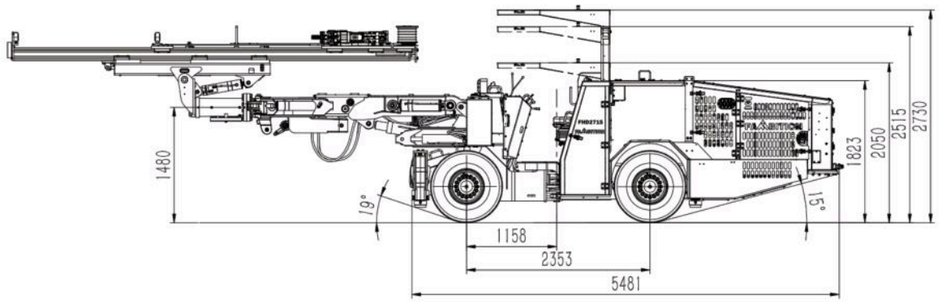
Drill Boom	
Model	FD26F
Parallel Hole Coverage Area	29 m²
Type	Automatic Hydraulic Control
Drill Boom Telescopic Stroke	1200 mm
Feed Beam Compensation Stroke	1600 mm
Feed Beam Rotation Angle	360°

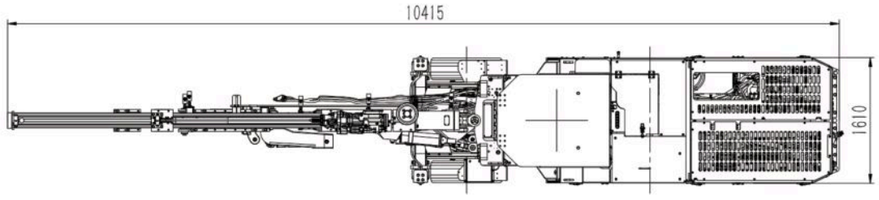
Electrical System	
Rated Voltage	380 V (±10%)
Frequency	50-60 Hz
Total Input Power	70 kW
Automatic Cable Reel	Cable reel with cable pulling interlock
Protection Class	IP66
Starting Method	Star-delta Starter

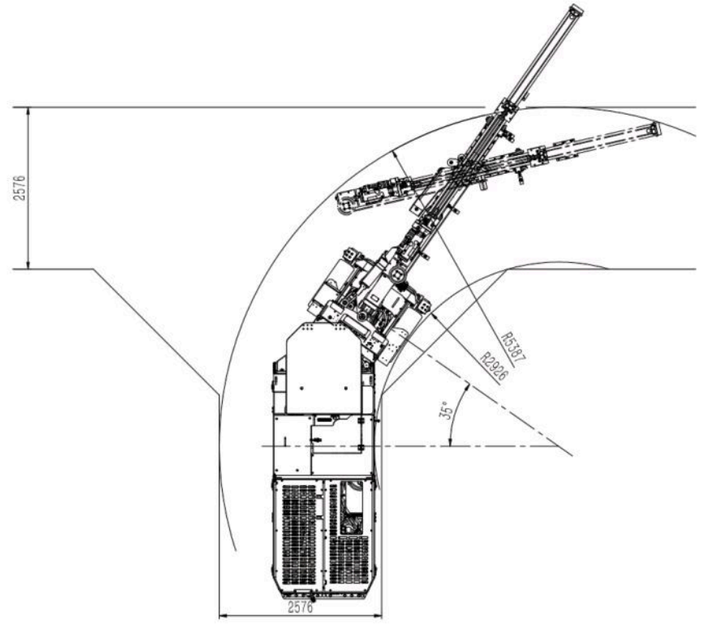
FAMBITION

Feature

FHD2715 is a single-boom underground hard rock drilling jumbo, equipped with Montabert HC95 rock drill. It adapts to working face of width × height ⩾2.7×3.0m, with a maximum coverage area of 34m².







FT155













Dimensions	
Max. Length	8,250±100 mm
Max. Width	2,200±20 mm
Overall Height	2,400±50 mm
Inside Turning Radius	4,214±100 mm
Outside Turning Radius	6,749±100 mm

Engine	
Brand & Model	Cummins B5.9CS4
Rated Power	129 kW @ 2200 rpm
Output Torque	760Nm @ 1600 rpm
Cylinders	Inline 6-cylinder
Cooling Type	Liquid-cooled

FAMBITION

Unladen Mass	
Overall Weight	12,800 kg
Front Axle Load	8,960 kg
Rear Axle Load	3,840 kg

Travel Speed (Flat Slope, Full Load)	
1st Gear	5±1 km/h
2nd Gear	12±1 km/h
3rd Gear	24±1 km/h

Hydraulic System	
Steering Cylinder	Ø90 mm, 2 pcs
Full Hydraulic Steering Unit	BZZ1-E1000C
Steering Pump	P835
Brake Charge Valve	Mico
Hydraulic Tank	200L

Electrical System	
Relay	Schneider
Circuit Breaker	Schneider
Controller	EPEC 4602
Engine Fault Monitoring	Display, monitors engine & gearbox fault information
Battery	2×12V Camel

Feature

The vehicle adopts a central articulated frame and full hydraulic power steering. It is fitted with safe fully-enclosed multi-disc wet brakes with spring-applied and hydraulic-release function, and a water-cooled turbocharged engine meeting China Stage IV emission standard. Featuring low emission and low pollution, it enables more environmentally friendly underground operation. The cab complies with the latest FOPS/ROPS safety certification standards, boasting wide field of vision for comfortable, safe and convenient driving. A single chassis can be equipped with different functional carriages to perform various tasks. The carriage can be replaced at any location and time within two to three minutes. It is equipped with a multi-functional display to monitor equipment operating status in real time and assist in fault inspection and maintenance.

Model

Personnel Carrier: FUP18, FUP24

Fuel Tanker: FUD03, FUD05

Blasting Material Transport Vehicle: FUE02

Material Transport Vehicle: FUE02

Cooling Vehicle: FURO7