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YIMU INTELLIGENCE

A New Energy Intelligent Mining Truck Company

Specializing in the R&D and manufacturing of new energy intelligent mining trucks, YIMU strives to deliver integrated smart solutions for modern mining operations.



Make Mining Transportation Better

Specializing in the R&D and manufacturing of new energy intelligent mining trucks, YIMU strives to deliver integrated smart solutions for modern mining operations.

150+

Patent applications filed

130–185 tonnes Payload Range

Multiple hybrid/battery-electric models available

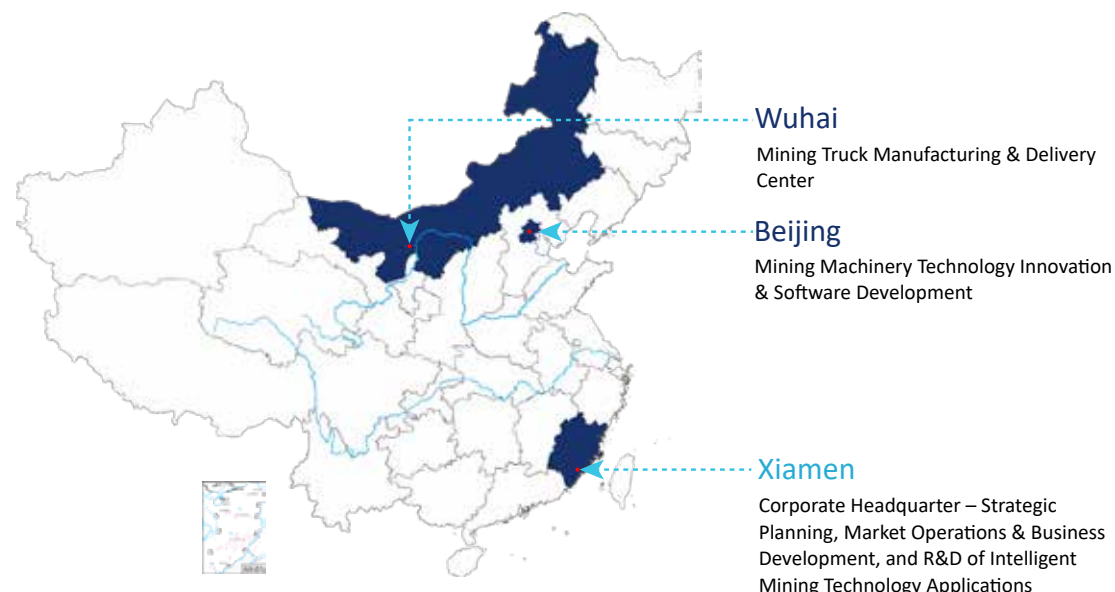


About YIMU

YIMU INTELLIGENCE is an innovation-driven high-tech company from China. As a provider of new energy intelligent mining trucks, YIMU INTELLIGENCE leverages innovative haulage platforms to **enhance mining efficiency, intelligence, safety, and sustainability**.

YIMU INTELLIGENCE is founded by a team of Tsinghua University automotive engineering graduates with over 20 years of experience in mining and construction machinery. Our expertise spans complete mining trucks designing, new energy vehicles, electric drivetrains, and intelligent technologies.

The company's core products include **large-scale new energy intelligent mining trucks** and new energy construction machinery tailored for demanding operating conditions. Designed for off-highway environments (such as mines, sand and aggregate operations, and large-scale hydropower projects), our products help customers significantly reduce operating costs and improve overall efficiency



Business Scope | Research&development, production, and sales of mining trucks and supporting equipment
Development and delivery of intelligent management systems for mining transportation equipment

YIMU INTELLIGENT Factory



- Annual output (two shifts): **3,000 units/year**
- **22,000 m²** assembly workshop
- **7,500 m²** intelligent warehouse



- Integrated R&D and manufacturing
- **Dedicated pilot production lines** for new products and processes
- Capable of delivering **tailored products** and modifications for unique customer needs



- Real-time monitoring of the entire production process, enabling full quality traceability
- **ISO International Standard Certification**
- Production of energy-efficient and new energy construction machinery



The Intelligent Digital Brain for Mining Haulage

An intelligent hub leveraging IoT and AI-driven big data
To achieve comprehensive “vehicle-field-personnel” management, covering the full lifecycle of each vehicle.

Monitor | Dispatch | Diagnostics | Upgrades



Centralized Command Center

The system, accessible via mobile apps or a web-based platform, enables real-time monitoring of multi-dimensional data across mining sites, fleets, and individual vehicles. Powered by advanced analytics, it is capable of rapidly identifying root causes of issues and supporting precise decision-making. By providing real-time data for production scheduling, equipment maintenance, energy optimization, and safety management, it empowers mining operations to significantly improve efficiency while reducing operating costs.

Remote Equipment Upgrade

The platform supports remote bulk upgrades of onboard firmware, algorithms, and configuration files. Leveraging differential updates and breakpoint-resume technology, it ensures stable transmission of upgrade packages even over complex networks. It also allows customized upgrade strategies with end-to-end monitoring, and automatically rolls back in case of anomalies, fully safeguarding equipment stability and production continuity.

Intelligent Vehicle Fault Analysis & Diagnostics

By combining real-time monitoring with multi-sensor data fusion, the platform correlates fault timelines with historical operating data at the click of a button, delivering accurate, real-time insight into vehicle condition. An embedded multi-model analytics engine proactively detects potential failure risks. Together with multi-level alerts and intelligent decision recommendations, the system enables rapid fault localization and actionable guidance during abnormal events—effectively avoiding emergency repair costs and unplanned downtime, while ensuring the continuity and safety of mining operations.

Standardized Vehicle Integration

By uploading the vehicle DBC file and configuring core functional parameters, new vehicle models can be quickly onboarded to the system, significantly shortening project deployment cycles. The platform also offers flexible customization capabilities, enabling precise adaptation to the specific requirements of different vehicle models and operating scenarios.

Intelligent Digital Fleet Management

By deeply integrating data flows from the mine site, fleet, and individual vehicles, the platform delivers precise data-driven insights to optimize haul routes and operational workflows. It also supports large-scale data storage and analytics, enabling both offline and real-time data processing and statistical analysis.

Autonomous/Remote Driving Intelligent Management

Human-vehicle Collaboration and Remote Intervention: Autonomous-first, human-assisted for safety

All EM-series mining trucks are built on the open and scalable HiMADS platform. With strong flexibility and compatibility, the platform adapts to mines of different scales, diverse operating conditions, and varying levels of intelligent deployment. It supports phased implementation—from selected functions to full-process operation—with continuous upgrades, helping customers avoid redundant investment and protecting the long-term value of their capital investment.

Domain Controller

- Higher CPU performance
- Deterministic low-latency hardware and software meeting functional safety standards
- High reliability automotive-grade connectors
- Mass-producible with strong environmental adaptability
- Operates from -40°C to $+60^{\circ}\text{C}$, meeting commercial vehicle environment requirements

Primary LiDAR

- Maximum detection range: 200 m

Millimeter-Wave Radar

- Maximum detection range: 50 m
FOV: $25^{\circ}(\text{V}) \times 120^{\circ}(\text{H})$

Blind-Spot LiDAR

- Maximum detection range: 150 m
FOV: $70^{\circ}(\text{V}) \times 300^{\circ}(\text{H})$

Autonomous Driving and Path Tracking

Automatically performs start, stop, acceleration, and deceleration, accurately following designated routes.

Full Drive-by-Wire Control

Steering, throttle, braking, gear shifting, and dumping are fully automated.

Loading and Unloading Coordination

Integrates with automated loading and unloading systems to complete a closed-loop haulage process.

All-Weather Mine Operation

Ensures safe operation across diverse working conditions and weather environments.

Vehicle-Cloud Collaborative Management

Real-time vehicle monitoring to optimize task dispatching and overall operational efficiency.

Seamless Manual/Autonomous Mode Switching

Supports phased deployment based on mine requirements, enabling a smooth transition from intelligent assistance to fully autonomous operation.

RTK Positioning System

- Supports multiple communication modes: 5G/4G, private network, and LTE-V
- Achieves centimeter-level (1 cm) RTK high-precision positioning



Independently Developed Drive-by-Wire Chassis

- Automatic gear shifting control
- Electronic hydraulic steering / full hydraulic steering
- Forward-designed electronic and electrical architecture for autonomous mining operations
- Tire temperature and pressure monitoring, redundant braking, redundant parking, redundant steering

Onboard Camera

- Remote driving, 360° panoramic imaging

HiMADS Platform

China's First Multi-Axle New Energy Rigid Mining Truck Platform
Pioneering the Next Generation of Large-Scale, Multi-Energy, Intelligent Drive-by-Wire Mining Trucks

"HiMADS" stands for Hybrid Intelligent Multi-Axle Driving & Steering.

This newly designed multi-axle new energy rigid mining truck platform leverages a fully domestic supply chain, achieving smarter, safer, and more energy-efficient operation while reducing mining transportation costs. It overcomes the technical bottlenecks of large-scale domestic mining trucks and breaks foreign technology monopolies.

Higher Payload
Better Matching of
New Energy Powertrain

Flexible Steering for Enhanced Safety
Fully Drive-by-Wire Chassis

Fully Domestic
Lower Cost, Faster Payback



● Power Coupling and Intelligent Power Management System

The "brain" flexibly allocates power through intelligent computing, optimizing traction and anti-slip performance, while accurately identifying operating conditions to comprehensively enhance power performance and efficiency.

● Multi-Controller Domain Architecture

The domain architecture enables centralized control of key subsystems such as the engine, chassis, and vehicle body, laying a solid foundation for intelligent driving and autonomous applications, and expanding broader technological possibilities.

● Multi-Axle Steering System

Equipped with front-and-rear multi-axle steering, including two or more steerable axles, the vehicle delivers enhanced maneuverability and a reduced turning radius.

● Intelligent Energy-Saving System

The system reduces energy consumption through start-stop and economic condition management, provides intelligent energy-saving driving prompts, and, based on cloud platform data, offers optimized driving demonstrations for the same route, enabling precise assessment and continuous optimization of energy consumption for each cycle.

● Modular Series-Parallel Hybrid Powertrain

The modular energy system supports multiple energy modes, including diesel range-extending, hydrogen fuel cell, pure electric, and methanol range-extending. Its series-parallel hybrid powertrain allows operation in engine-only, motor-only, combined, or in-motion power generation modes, providing versatile and efficient performance.

● Vehicle Networking System and Data Analytics Platform

Records operating data / Supports data analysis and decision-making

Hybrid Intelligent Mining Truck – 130 t Payload EM888H (176 kWh)

EM888H is a hybrid intelligent mining truck developed by YIMU INTELLIGENCE, utilizing a "Diesel-First" control strategy. Powered by a high-efficiency engine, it ensures long-term stable operation. In environments with limited charging conditions, its high-rate battery, featuring a delicate capacity design, efficiently recovers energy during braking or idle phases. The battery can rapidly provide auxiliary power when needed, significantly enhancing the vehicle's power response speed and fuel economy under complex working conditions.



Specifications

Dimensions	
Length	12,790 mm
Width	4,488 mm
Height	5,276 mm

Weights	
Vehicle Weight	65,000 kg
Rated Payload	130,000 kg
Max. Gross Vehicle Weight	195,000 kg

Item		Specification
Dump Body Capacity		75/86 m³
Dump Body Lift/Lowering Time		45/30 s
Maximum Internal Dimensions	Length	8,885 mm
	Width	4,200 mm
	Height	2,465 mm
Engine	Model	YCK16775-T30
	Displacement	16 L
	Rated Power	570 kW/1,900 rpm
	Maximum Torque	3,200 Nm/1,300 -1,500 rpm
Transmission	Main Drive	Dual-Motor 8-Speed Hybrid Transmission (Seamless Power Delivery)
	Auxiliary Drive	Single-Motor 4-Speed AMT
Drive Motor Power		315/510 kW
Battery	Capacity	176 kWh
	Type	High-Rate Lithium-ion Battery
Drive Mode		8×6 (Engine Direct Drive on Second and Third Axles, Electric Drive on Fourth Axle)
Max. Speed (unloaded)		40 km/h
Max. Gradeability		30 %
Steering Performance	Steering Type	Full Hydraulic Steering on Front and Rear Axles
	Minimum Turning Radius	12,500 mm
	Minimum Passing Radius	14,500 mm
Braking Performance	Parking Brake Type	Air Brakeand Rear Axles
	Parking Slope Capacity	≥25 %
	Service Brake Type	Dual-circuit Air Brake System (Drum Type) + Electric Motor Retarder + Engine Compression Brake
	Braking Distance (Full Load, 30 km/h)	≤15,75 m
Cab	Suspension	Semi-Suspended Structure
	Seat	Air Spring Seat
	Air Conditioning	Cooling & Heating
Wheelbase		3,350+1,850+2,600 mm
Fuel Tank Capacity		900 L
Approach Angle		24°
Departure Angle		65°
Minimum Ground Clearance		460 mm
Suspension Structure		Full Hydropneumatic Suspension
Tire		505/95 R29
Axle Load Distribution		35+60+60+60 t

Hybrid Intelligent Mining Truck – 120 t Payload

EM888HE(Equipped with 800 kWh High-Capacity Battery)

EM888HE is a high-electric-capacity hybrid intelligent mining truck developed by YIMU INTELLIGENCE, featuring a large-capacity battery system and an "electric-drive-priority" control strategy. Under most operating conditions, the vehicle operates in pure electric mode, delivering quiet, smooth, and zero-emission performance, significantly reducing fuel consumption and carbon emissions. Its intelligent energy management system dynamically optimizes power distribution in real time based on operating conditions. During heavy-load uphill operations, it delivers strong electric driving power, while during downhill driving and braking, it efficiently recovers energy, thereby effectively extending the vehicle’s operating range.



Specifications

Dimensions	
Length	12,790 mm
Width	4,488 mm
Height	5,276 mm

Weights	
Vehicle Weight	73,000 kg
Rated Payload	120,000 kg
Max. Gross Vehicle Weight	193,000 kg

Item		Specification
Dump Body Capacity		70/81 m³
Dump Body Lift/Lowering Time		40/30 s
Maximum Internal Dimensions	Length	8,600 mm
	Width	4,200 mm
	Height	2,365 mm
Engine	Model	YCK16775-T30
	Displacement	16 L
	Rated Power	570 kW/1,900 rpm
	Maximum Torque	3,200 Nm/1,300-1,500 rpm
Transmission	Main Drive	Dual-Motor 8-Speed Hybrid Transmission (Seamless Power Delivery)
	Auxiliary Drive	Single-Motor 4-Speed AMT
Drive Motor Power		315/510 kW
Battery	Capacity	800 kWh (Charging / Battery Swapping)
	Type	LiFePO ₄
Drive Mode		8×6 (Engine Direct Drive on Second and Third Axles, Electric Drive on Fourth Axle)
Max. Speed (unloaded)		40 km/h
Max. Gradeability		30 %
Steering Performance	Steering Type	Full Hydraulic Steering on Front and Rear Axles
	Minimum Turning Radius	12,500 mm
	Minimum Passing Radius	14,500 mm
Braking Performance	Parking Brake Type	Air Brake
	Parking Slope Capacity	≥25 %
	Service Brake Type	Dual-circuit Air Brake System (Drum Type) + Electric Motor Retarder + Engine Compression Brake
	Braking Distance (Full Load, 30 km/h)	≤15.75 m
Cab	Suspension	Semi-Suspended Structure
	Seat	Mechanical Suspension Seat
	Air Conditioning	Cooling & Heating
Wheelbase		3,350+1,850+2,600 mm
Fuel Tank Capacity		900 L
Approach Angle		24 °
Departure Angle		65 °
Minimum Ground Clearance		460 mm
Suspension Structure		Full Hydropneumatic Suspension
Tire		505/95 R29
Axle Load Distribution		35+60+60+60 t

Electric Intelligent Mining Truck

EM888E (1,600 kWh)

EM888E is a pure electric intelligent mining truck developed by YIMU INTELLIGENCE for operating scenarios with well-established charging and battery swapping infrastructure. Leveraging an ultra-large-capacity battery pack and a high-efficiency electric drive system, the vehicle is capable of long-duration, low-carbon operation in pure electric mode during daily operations. By significantly reducing fuel consumption and exhaust emissions, the EM888E supports near-zero-emission, high-efficiency continuous operation and serves as one of the core pieces of equipment for the development of green and intelligent mining operations.



Specifications

Dimensions	
Length	12,790 mm
Width	4,488 mm
Height	5,276 mm

Weights	
Vehicle Weight	78,000 kg
Rated Payload	120,000 kg
Max. Gross Vehicle Weight	198,000 kg

Item		Specification
Dump Body Capacity		70/81 m³
Dump Body Lift/Lowering Time		40/30 s
Maximum Internal Dimensions	Length	8,600mm
	Width	4,200 mm
	Height	2,365 mm
Transmission	Main Drive	3-Speed / 4-Speed AMT
	Auxiliary Drive	4-Speed AMT
Front Drive Motor Power		612/1,040 kW
Rear Drive Motor Power		315/510 kW
Battery	Capacity	1,600 kWh (Charging / Battery Swapping)
	Type	LiFePO₄
Drive Mode		8×6, Electric Drive
Max. Speed (unloaded)		50 km/h
Max. Gradeability		30%
Steering Performance	Steering Type	Full Hydraulic Steering on Front and Rear Axles
	Minimum Turning Radius	12,500 mm
	Minimum Passing Radius	14,500 mm
Braking Performance	Parking Brake Type	Air Brake
	Parking Slope Capacity	≥25%
	Service Brake Type	Dual-circuit Air Brake System (Drum Type) + Electric Motor Retarder
	Braking Distance (Full Load, 30 km/h)	≤15.75 m
Cab	Suspension	Semi-Suspended Structure
	Seat	Mechanical Suspension Seat
	Air Conditioning	Cooling & Heating
Wheelbase		3,350+1,850+2,600 mm
Approach Angle		24°
Departure Angle		65°
Minimum Ground Clearance		460 mm
Suspension Structure		Full Hydropneumatic Suspension
Tire		505/95 R29
Axle		35+60+60+60t

Dual-Engine Hybrid Intelligent Mining Truck

EM999H

- » Equipped with the "Intelligent Cabin"
- » Combined instrument cluster and 10-inch LCD display with real-time display of platform dispatch commands
- » Supports remote driving takeover signals, enabling autonomous mining operations



Exceptional Load Carrying Capacity

Ultra-High Payload Capacity
Rated Payload: **185 t**
Maximum Gross Vehicle Weight (GVW): **260 t**
Large-Capacity Dump Body
Dump Body Capacity (Struck): **100 m³**
Compatible with a Wide Range of Excavator Models

High-Performance Power System

Dual-Engine Powertrain
Dual Engines with CHD / Electric-Drive AMT
Combined Transmission System
Intelligent Energy Consumption Management
Supported by Large-Capacity, High-Rate Lithium Battery
Energy Recovery via Motor Regenerative Braking

Excellent Road Adaptability

Full Oil-Gas Suspension System
Five-Axle Coordinated Operation
Adapted to Complex Mining Road Conditions
Flexible Steering Performance
Hydraulic Steering on the 1st, 2nd, and 5th Axles
Minimum Turning Radius: 13.5 m

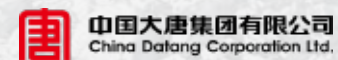
Specifications

Dimensions		Weights	
Length	13,200 mm	Vehicle Weight	76,000 kg
Width	4,664 mm	Rated Payload	185,000 kg
Height	5,500 mm	Max. Gross Vehicle Weight	261,000 kg

Item		Specifications
Dump Body Capacity		100/113 m³
Dump Body Lift/Lowering Time		45/30 s
Maximum Internal Dimensions	Length	9,275 mm
	Width	4,500 mm
	Height	3,000 mm
Engine	Model	YCK16775-T30
	Quantity	2
	Displacement	16 L
	Rated Power	570 kW/1,900 rpm
	Maximum Torque	3,200 Nm/1,300-1,500 rpm
Transmission	Main Drive	Dual-Motor 8-Speed Hybrid Transmission (Seamless Power Delivery)
	Auxiliary Drive	Single-Motor 4-Speed AMT
Drive Motor Power		315/510 kW
Battery	Capacity	1,600 kWh (Charging / Battery Swapping)
	Type	High-Rate Lithium-ion Battery
Drive Mode		Five-Axle Coordinated Operation
Max. Speed (unloaded)		40 km/h
Max. Gradeability		30 %
Steering Performance	Steering Type	Full Hydraulic Steering on 1st, 2nd and 5th Axles
	Minimum Turning Radius	13,500 mm
	Minimum Passing Radius	15,000 mm
Axle		35+35+60+60+60 t
Tire		505/95 R29
Braking Performance	Parking Brake Type	Air Brake
	Parking Slope Capacity	≥25%
	Service Brake Type	Dual-circuit Air Brake System (Drum Type) + Electric Motor Retarder + Engine Compression Brake
	Braking Distance (Full Load, 30 km/h)	≤15.75m
Cab	Suspension	Semi-Suspended Structure
	Seat	Mechanical Suspension Seat
	Instrument Panel	LCD Instrument Cluster with 10-inch Display
	Air Conditioning	Cooling & Heating
Fuel Tank Capacity		900 L
Approach Angle		25°
Departure Angle		60°
Minimum Ground Clearance		380 mm
Suspension Structure		Full Hydropneumatic Suspension
Wheelbase		1,950+2,150+1,850+2,500 mm

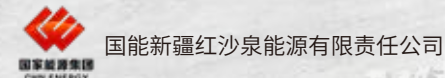
Implementation Cases

YIMU INTELLIGENCE mining trucks have accumulated **over 3 million kilometers** of total operating mileage across mining areas in Xinjiang, Inner Mongolia, and other regions. The average **fuel savings reach 20%–50%** compared with conventional diesel mining trucks.



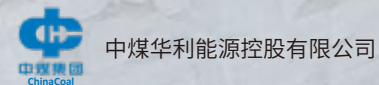
Xilinhote, Inner Mongolia (Open-Pit Coal Mine)

- › Frequent extreme weather conditions
- › Ultra-low-temperature operation down to -30°C



Changji Prefecture, Xinjiang (Open-Pit Coal Mine)

- › Extreme climate conditions
- › Typical Gobi desert environment



Hami, Xinjiang (Open-Pit Coal Mine)

- › Extremely high requirements for equipment availability



Wuhai, Inner Mongolia (Open-Pit Coal Mine)

- › High traffic density
- › Steep haul road gradients
- › Severe weather conditions with strong winds and dust

Tongda Coal Mine

Wuhai, Inner Mongolia (Open-Pit Coal Mine)

- › High traffic density
- › Narrow haul roads and complex operating environment
- › Limited operating area



Benxi, Liaoning Province (Open-Pit Iron Mine)

- › Strict ecological protection constraints
- › Poor ground conditions
- › High-density loaded materials

Zero-distance One-stop After-sales Service Assurance

We consistently uphold a customer-centric, value-driven service philosophy. Committed to full-process, all-weather, all-round, and dedicated “365-day” service, we rely on a professional service team, solid technical expertise, and outstanding service quality to maintain close, zero-distance communication with customers. We are dedicated to providing professional, efficient, and comprehensive full-life-cycle after-sales support.



Intelligent Operation & Maintenance Platform

Real-time monitoring of vehicle operating status
Predictive fault analysis with proactive solution recommendations



Remote Service Support

Online diagnosis of vehicle faults
Remote troubleshooting of software-related issues



Professional Service Team

Rapid after-sales response
Establishment of maintenance centers in close proximity to customer sites



Local Spare Parts Network

Key components stocked locally and centrally allocated for
faster repairs and maximum equipment uptime.



Customized Service Solutions

Optional engine brand configurations
Expanded vehicle customization options
Customized intelligent vehicle management system



Transparent Service Process

Full transparency of service processes, content, and costs
Traceable and verifiable service records throughout the service lifecycle

Global Service Networks Guarantee Efficient Operations

Built on high reliability, our products undergo rigorous quality control and durability testing to ensure outstanding uptime and long service life. Optimized supply chains and production processes shorten delivery cycles, allowing customers to deploy equipment rapidly and seize market opportunities.

Dual Assurance: Reliable Quality and Agile Delivery

With high reliability as a core product principle, we implement stringent quality control systems and durability testing to ensure high equipment availability and extended service life.
At the same time, by optimizing supply chains and production processes, we achieve shorter delivery cycles, enabling customers to deploy equipment rapidly and seize market opportunities.

Notes:

- 1. This service commitment applies to mining trucks sold by YIMU INTELLIGENCE or its authorized distributors, excluding remanufactured and second-hand equipment.
- 2. YIMU INTELLIGENCE reserves the right of final interpretation of this service commitment.

