

Make mining transportation
smarter, safer, greener and more efficient



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Yimu Intelligence

A company that manufactures
new energy intelligent mining dump trucks

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01 About Us

Focus on research and development, manufacturing and selling of new energy intelligent mining dump trucks, and providing relevant intelligent solutions



Overview

XIAMEN YIMU INTELLIGENCE TECHNOLOGY CO., LTD. is an innovative enterprise. As a company that specializes in manufacturing new energy intelligent mining dump trucks, it is committed to empowering mining with innovative operating platforms, making mining transportation smarter, safer, greener and more efficient.

Our founding team comes from the Department of Automobile Engineering of Tsinghua University, which has more than 20 years of experience in the R&D, production and sales of engineering machineries, and has been deeply involved in mining trucks, new energy vehicles, electric drive assemblies and intelligent related technical fields.

Our current main products include large-scale new energy intelligent mining trucks and new energy engineering machineries used under specific working conditions. They are suitable for specific closed transportation scenarios such as mines, sand and gravel disposal, large-scale water conservancy and hydro-power projects, and can significantly reduce costs and increase efficiency for customers.



Business Scope

R&D, production and sales of mining trucks and their related equipments

The development and delivery of intelligent management system for mining transportation equipments



Location



Production Base



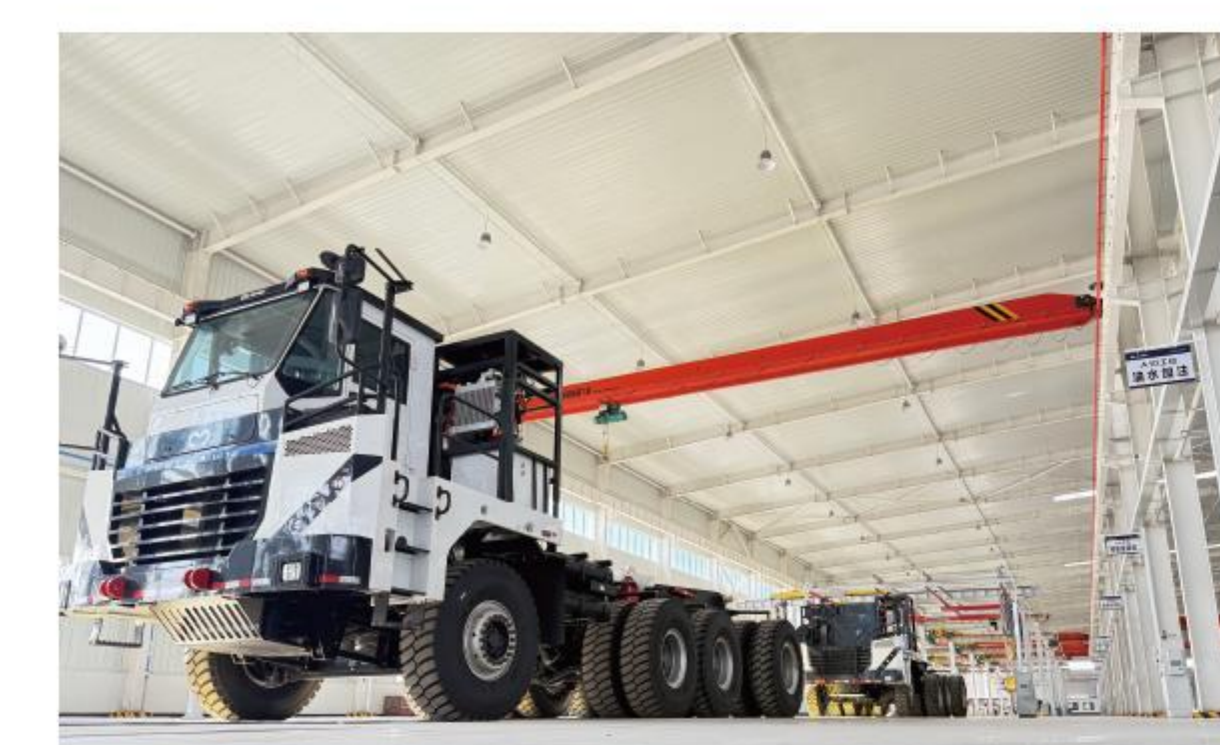
7,500 m² smart warehouse



22,000 m² final-assembly hall



Dual-shift 3,000-unit annual output



Rigorous quality control



Dedicated production line



Flexible manufacturing



02 The "Digital Brain" of Mine Transportation

Intelligent hub based on IoT/AI big data
To realize the full-factor management of "vehicle-field-personnel"
to cover the closed loop of the vehicle's entire life cycle



Monitor



Scheduling



Diagnosis



Upgrade

Key Functions



Intelligent analysis and diagnosis of vehicle faults

- The real-time vehicle status monitor integrates multiple sensors to automatically link fault timelines with operational data
- Multi-mode data analysis engine can capture potential fault hazards in advance, perform maintenance in time and avoid repair costs and production stoppage losses
- It has multi-level fault warning and intelligent decision-making sending functions, and can send alarm information when abnormal conditions occur to shorten maintenance time



Intelligent management for unmanned driving and remote driving

- Real-time monitoring of unmanned vehicles in mining areas, issuing mission instructions analyzing mission execution, and achieving production targets
- Adopting 5G&private network dual-channel transmission to ensure timely response to control instructions and support remote driving takeover in emergency situations



Full area commanding center

- Real-time monitoring of multi-dimensional data of mining areas, fleets, and vehicles in-depth data analysis, and rapid identification of the problem causes
- Assisting accurate decision-making for production scheduling
- Real-time data support to boost mine efficiency and cut costs



Devices' remote upgrade

- Support remote batch upgrade of vehicle terminal firmware algorithms and config files
- Using differential upgrade and breakpoint resume technology to ensure efficient transmission of upgrade packages
- Customizable upgrade strategy can monitor the upgrade status in real time, and automatically roll back in case of abnormal situation



Standardization of vehicle model access

- New vehicle model access can be completed by uploading the vehicle DBC file and setting the function parameters, greatly shortening the deployment cycle
- Supporting custom function configuration to adapt to the personalized needs of different vehicle models



Digital and intelligent fleet management

- Real-time statistics of core indicators, automatic collection of vehicle operation data construction of data asset library, and tracing of vehicle history
- Accurate division of mining area operation boundaries, real-time monitoring of vehicle entry and exit, and ensuring compliance operations
- Marking of loading and unloading areas, optimization of transportation routes and improvement of turnover efficiency

03 The Advantages of HiMADS

China's first multi-axle new-energy rigid mining-truck platform
Redefines large-scale, multi-energy, intelligent-by-wire mining haulers

HiMADS Hybrid Intelligent Multi-Axle Driving&Steering

The newly designed multi-axle new energy rigid mining truck platform adopts localized supply chains to overcome dependence on foreign technology

It is smarter, safer, and more energy-efficient, which can reduce the transportation cost of mining areas and solve the technical bottleneck of domestic large-scale mining trucks

Advantages



Larger load capacity



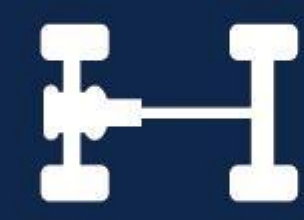
More flexible and safer steering



Better options for new energy powers



Localization



Wire-controlled chassis



Lower cost and faster return on investment



Key Features

1 Power coupling and intelligent power management system

- The "brain" can calculate and flexibly distribute the power ratio to reduce the risk of loss of control and slippage
- It can identify the different working conditions, so that to improve power performance, and save cost

2 Multi-controller domain control architecture

- It enable control of subsystems such as engine, chassis, and vehicle body
- It can provide unlimited possibilities for intelligent and unmanned driving

3 Multi-axle steering system

- Multi-axle steering at the front and rear, more than two steering axles (including the front and rear axles)
- More flexible turning and smaller turning radius

4 Intelligent energy-saving system

- The start-stop and operating condition management system can reduce energy loss
- It has intelligent energy-saving driving tips
- Through cloud platform data calculation, it provides optimized driving example under the same route
- It can calculate, evaluate and optimize energy consumption each time

5 Multi-modular hybrid system

- Modular energy supply: diesel range extension module; hydrogen battery module; pure electric module; methanol range extension module
- Series-parallel hybrid system: single-engine drive, single-motor drive, combined drive — for both driving and power generation

6 Network system and data analysis platform

- It can record operation data/perform data analysis and decision making

04 Core Product EM888H

The vehicle can be equipped with
pure battery drive
fuel + battery drive
methanol range-extended drive
hydrogen range-extended drive
and other power systems

Product Highlights

- 130 Ton Rated Capacity
Transportation is more efficient
- Unique four axles reinforced load-bearing structure
Transportation is more stable

It has the characteristics of high transportation efficiency, energy saving and environmentally intelligent design, safety and reliability, flexible configuration, etc. The use of a fully localized supply chain and common parts speeds up the delivery cycle. Combining multi-axle drive and oil-electric hybrid drive technology, it can still operate normally on a 30% slope when fully loaded. The intelligent energy-saving control system works in conjunction with the downhill energy recovery system, making it more energy-efficient.

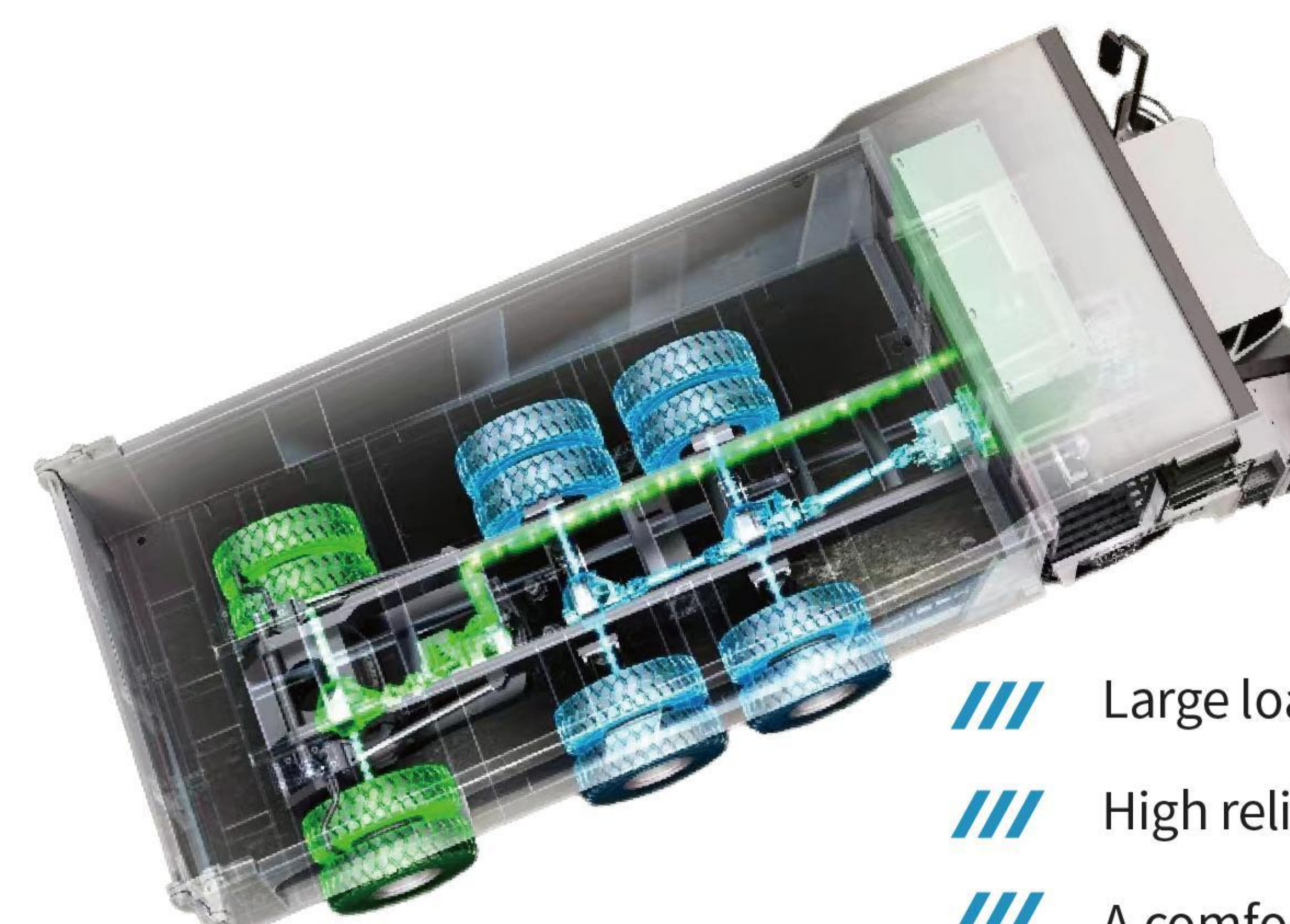
Energy cost reduction

>20 %

Delivery cycle

<3 months

Product Advantages



- Large load capacity and high efficiency
- High reliability and easy maintenance
- A comfortable and flexible driving experience
- Provides a balance between power and energy saving
lower procurement and maintenance costs
- The intelligent hybrid power system provides a balance
between power and energy saving

05 Flagship Product EM999H



Product Configuration

Equipped with "smart cockpit"

Remote driving takeover signal, supporting unmanned operation in mining area



Load performance

Super load capacity

- 200 ton rated capacity
- 300 ton maximum total weight

Giant cargo box

- 100 cubic meters' cargo box can match various excavator models



Power system

Dual drives

- Dual engine+combined gearbox

Intelligent energy consumption management

- Large-capacity, high-rate lithium battery
- Supports regenerative braking



Applicable to all conditions

Full oil-gas suspension

- Five-axle linkage, adaptable to complex mine roads

Flexible steering

- 1st, 2nd and 5th axle full hydraulic steering
- 16m minimum turning radius

06 Service



Global Reach

Global insight, local execution
delivering higher-efficiency mining trucks



Controllable Delivery

Proven quality with shorter lead-time



Professional Teams

Provide warranty service throughout the vehicle's whole life cycle
Quick response after sales and establish maintenance center near our customers



Transparent Service

Service process/content
charges are transparent and traceable



Remote Service

Online diagnosis of vehicle faults and
troubleshooting of software faults



Intelligent Operation and Maintenance

The intelligent operation and maintenance platform can monitor vehicle status in real time, predict faults,
and send solutions to our customers



Customized Services

Selectable engine brands | Customizable intelligent vehicle management system | Expandable vehicle features

07 Working Conditions



Our company's mining trucks have a total
operating mileage of more than 2 million kilometers
in Xinjiang and Inner Mongolia
and the average fuel consumption is more than 20%
lower than that of wide-body vehicles and 40%
lower than that of rigid dump trucks

 2 million kilometers 

08 EM888H Product Parameters



Vehicle

MODEL	EM888H
Length	12,500mm
Width	4,460mm
Height	4,900mm

Weights

MODEL	EM888H
Vehicle weight	64,000kg
Maximum gross vehicle weight	194,000kg
Rated payload	130,000kg

Body Specifications

MODEL		EM888H
Standard capacity		75/85m³
Body raise time /lower time		45/30s
Maximum internal dimensions	Length	8,770mm
	Width	4,200mm
	Height	2,580mm
Dump body type		Without tail gate
Wheelbase		3,350+1,850+2,600mm

MODEL		SPECIFICATIONS
Drive engine	Model	YCK16775-T30
	Displacement	16L
	Rated power	570kW/1,900rpm
	Maximum torque	3,200Nm/1,300-1,500rpm
Transmission	Main drive	Dual-motor 8-speed hybrid transmission with uninterrupted shifting
	Auxiliary drive	Single-motor 4-speed AMT
Rear axle motor power		315/510kW
Battery	Capacity	176kWh
	Type	High-rate lithium-ion
Drive mode		8x6
Max. speed(unloaded)		40km/h
Max. gradeability		30%
Pass-Through Performance	Steering type	1st and 4th axle full hyadraulic steering
	Minimum turning radius	12,500mm
	Minimum passing radius	14,500mm
Axle Load Distribution		35+60+60+60t
Tire		505/95R29
Braking	Parking brake type	Air brake
	Parking slope capability	≥25%
	Service brake type	Air controlled double circuit drum brake +Motor reverse + Engine cylinder brake
	Fully loaded brake distance	≤15.75m
Cabin	Suspension	Semi-suspended structure
	Seat type	Air spring seat
	Air-conditioning	Cool &heat
Approach angle		24°
Fuel tank capacity		900L
Minimum ground clearance		460mm
Departure angle		65°
Suspension structure		Full oil-gas suspension

09 EM999H Product Parameters



Vehicle

MODEL	EM999H
Length	15,000mm
Width	5,500mm
Height	5,500mm

Weights

MODEL	EM999H
Vehicle weight	100,000kg
Maximum gross vehicle weight	300,000kg
Rated payload	200,000kg

Body Specifications

MODEL		EM999H
Standard capacity		100/136m³
Body raise time /lower time		45/35s
Maximum internal dimensions	Length	10,500mm
	Width	5,200mm
	Height	2,620mm
Dump body type		Tail-up type
Wheelbase		2,450+2,550+2,350+2,800mm

MODEL		SPECIFICATIONS
Drive engine	Model	YCK16775-T30
	Amount	1
	Displacement	16L
	Rated power	570kW/1,900rpm
	Maximum torque	3,200/1,300-1,500Nm/rpm
Range -Extenged Engine	Amount	1
	Generting power	400kW
Transmission	Main drive	Dual-motor 8-speed hybrid transmission with uninterrupted shifting
	Auxiliary drive	Single-motor 4-speed AMT tramsmission
Rear axle motor power		500/800kW
Battery	Capcaity	234kWh
	Type	High-rate lithium-ion
Drive mode		10x6
Max. speed(unloadede)		40km/h
Max. gradeability		30%
Pass-Through Performance	Steering type	1st, 2nd and 5th axle full hyadraulic steering
	Minimum turning radius	16,000mm
	Minimum passing radius	17,000mm
Axle Load Distribution		40+40+80+80+80t
Tire		24.00R35
Braking	Parking brake type	Air brake
	Parking slope capability	≥25%
	Service brake type	Pneumatic dual-circuit drum braking + motor reverse drag + engine in-cylinder braking
	Fully loaded brake distance	≤15.75m
Cabin	Suspension	Semi-suspended structure
	Seat type	Air spring seat
	Air-conditioning	Cool &heat
Approach angle		24°
Fuel tank capacity		1,500L
Minimum ground clearance		625mm
Departure angle		65°
Suspension structure		Full hydropneumatics suspension