Xiamen Yimu Intelligence Technology Co., Ltd.

Email:info@easymoveme.com

Web:www.easymoveme.com

TEL:+86-592-5966380











New Energy Intelligent Mining Dump Truck With A Load Capacity of

130 Tons



N2 About EM186H

Hybrid intelligent Multi Axle Driving & Steering



EM186H is a new generation of large new energy intelligent mining dump truck developed by Yimu Intelligence specially for mines, ports, steel mills, water conservation projects, highroad constructions and other working conditions. The standard load capacity can reach 130 tons, and it has features such as high transportation efficiency, energy saving, smart control, high safety and reliability, and configuration variety.

EM186H can be equipped with various power systems, including pure electric drive, fuel + battery drive, methanol extended range hybrid, and hydrogen extended range hybrid. It can also be equipped with manual or automatic transmission. The truck adopts drive-by wire technology and can be equipped with autonomous driving modules. Various configuration can be applied based on different working scenarios to achieve optimal economic benefits and work efficiency.

N4Product Advantages



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



Product Advantages

/// Large load capacity and high efficiency

- 1. 130 tons load capacity provides higher efficiency.
- 2. Innovative four axle reinforced load bearing structure provides a more balanced load distribution. The load-bearing components are more durable, enabling the system.

/// Domestic common core components, lower procurement and maintenance costs

- 1. The innovative vehicle design allows for the utilization of a domestic supply chain, ensuring the lead time less than 3 months.
- 2. The use of platform-based, domestically produced components not only lowers manufacturing and maintenance costs but also facilitates standardization and interchangeability.

/// The intelligent hybrid power system provides a balance between power and energy saving

- 1. The adoption of multi-axle and hybrid driving technologies ensures that the mining dump truck can operate normally even on extreme slopes with a maximum gradient of 30%.
- 2. The IES (intelligent energy-saving) system, combined with the energy recovery system can achieve a minimum energy-saving rate of 20% per ton-kilometer.

/// High reliability and easy maintenance

- 1. The intelligent regenerative braking system significantly enhances reliability and safety.
- 2. The hydropneumatics suspension improves durability and lowers component failure rates.
- 3. The intelligent remote management system provides real-time data collection, remote diagnostics and updates for the trucks.

/// A comfortable and flexible driving experience

- 1. An innovative multi-axle steering system allows for a tighter turning radius of approximately 12.5 meters and enhances the flexibility.
- 2. The hydraulic steering system allows for an easier steering and more precisely handling.
- 3. The hydropneumatics suspension provides higher resistance and comfort.

Flexible options in power systems including pure electric drive

fuel + battery drive

methanol extended range hybrid

and hydrogen extended range hybrid





N5Product Specifications



⊘ Vehicle

MODEL	EM186H
Length	12,500mm
Width	4,260mm
Height	4,900mm

Weights Weights

MODEL	EM186H
Vehicle weight	58t
Maximum gross vehicle weight	188t
Rated load capacity	130t

⊗ Body Specifications

MODEL		EM186H
Standard capacity		75/85m³
Body raise time /lower time		35/30s
Maximum internal dimensions	Length	8,650mm
	Width	3,900mm
	Height	2,415mm

⊗ Main Specifications

MODEL		SPECIFICATIONS
	Model	YCK16775-T30
Engine	Displacement	16L
	Rated power	570/1,900kW/rpm
	Maximum Torque	3,200/1,300-1,500Nm/rpm
Gearbox	Main drive	8DS260
Gearbox	Auxiliary drive	AMT E-drive
Axle		35+45+45+60
Tire		460/95R25, 480/95R29
Drive motor	power	260/400kW
Dattavi	Battery power	118kWh
Battery	Туре	Lithium manganate
Drive mode		8x6
Maximum tra	avel speed	40km/h
Gradeability		30%
Steering	Steering	Full hydraulic / Two-axle steering, 1st and 4th axle are the steering axles
perfor-	Minimum turning radius	12,500mm
mance	Minimum passing radius	14,500mm
	Parking brake mode	Air brake
Braking perfor-	Parking slope	≥25%
mance	Driving brake mode	Air controlled double circuit drum brake + Motor reverse + Engine cylinder brake
	30km/h Fully loaded brake distance	≤15.75m
	Suspension	Semi-suspened structure
Cabin	Seat	Air spring
Cabili	Dashboard	Combination dashboard + 10 inch LCD screen
	Air-condition	Cool + heat
Fuel tank volume		1,000L
Approach angle		24°
Departure angle		65°
Minimum gro	ound clearance	415mm
Suspension	structure	Full hydropneumatics suspension

10

Xiamen Yimu Intelligence Technology Co., Ltd.

Email:info@easymoveme.com

Web:www.easymoveme.com

TEL:+86-592-5966380











EMI65H

New Energy Intelligent Mining Dump Truck With A Load Capacity of

115 Tons



N2 About EM165H

Hybrid intelligent Multi Axle Driving & Steering



EM165H is a new generation of large new energy intelligent mining dump truck developed by Yimu Intelligence specially for mines, ports, steel mills, water conservation projects, highroad constructions and other working conditions. The standard load capacity can reach 115 tons, and it has features such as high transportation efficiency, energy saving, smart control, high safety and reliability, and configuration variety.

EM165H can be equipped with various power systems, including pure electric drive, fuel + battery drive, methanol extended range hybrid, and hydrogen extended range hybrid. It can also be equipped with manual or automatic transmission. The truck adopts drive-by wire technology and can be equipped with autonomous driving modules. Various configuration can be applied based on different working scenarios to achieve optimal economic benefits and work efficiency.

N4 Product Advantages



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



Product Advantages

/// Large load capacity and high efficiency

- 1. 115 tons load capacity provides higher efficiency.
- 2. Innovative four axle reinforced load bearing structure provides a more balanced load distribution. The load-bearing components are more durable, enabling the system.

/// Domestic common core components, lower procurement and maintenance costs

- 1. The innovative vehicle design allows for the utilization of a domestic supply chain, ensuring the lead time less than 3 months.
- 2. The use of platform-based, domestically produced components not only lowers manufacturing and maintenance costs but also facilitates standardization and interchangeability.

/// The intelligent hybrid power system provides a balance between power and energy saving

- 1. The adoption of multi-axle and hybrid driving technologies ensures that the mining dump truck can operate normally even on extreme slopes with a maximum gradient of 30%.
- 2. The IES (intelligent energy-saving) system, combined with the energy recovery system can achieve a minimum energy-saving rate of 20% per ton-kilometer.

/// High reliability and easy maintenance

- 1. The intelligent regenerative braking system significantly enhances reliability and safety.
- 2. The hydropneumatics suspension improves durability and lowers component failure rates.
- 3. The intelligent remote management system provides real-time data collection, remote diagnostics and updates for the trucks.

/// A comfortable and flexible driving experience

- 1. An innovative multi-axle steering system allows for a tighter turning radius of approximately 12.5 meters and enhances the flexibility.
- 2. The hydraulic steering system allows for an easier steering and more precisely handling.
- 3. The hydropneumatics suspension provides higher resistance and comfort.

Flexible options in power systems including pure electric drive

fuel + battery drive

methanol extended range hybrid

and hydrogen extended range hybrid





N5Product Specifications



⊘ Vehicle

MODEL	EM165H
Length	12,200mm
Width	4,160mm
Height	4,785mm

Weights Weights

MODEL	EM165H
Vehicle weight	53t
Maximum gross vehicle weight	168t
Rated load capacity	115t

⊗ Body Specifications

MODEL		EM165H
Standard capacity		60/70m ³
Body raise time /lower time		35/30s
Maximum internal dimensions	Length	8,650mm
	Width	3,900mm
	Height	2,415mm

⊗ Main Specifications

MODEL		SPECIFICATIONS
	Model	YCK16775
Engine	Displacement	16L
	Rated power	570/1,900kW/rpm
	Maximum Torque	3,200/1,300-1,500Nm/rpm
Gearbox	Main drive	8DS260A
Gearbox	Auxiliary drive	AMT E-drive
Axle		30+45+45+45
Tire		16.00R25
Drive motor	power	260/400kW
Dattani	Battery power	90/108kWh
Battery	Туре	Lithium manganate
Drive mode		8x6
Maximum tra	avel speed	42km/h
Gradeability		30%
Steering	Steering	Full hydraulic / Two-axle steering, 1st and 4th axle are the steering axles
perfor-	Minimum turning radius	12,500mm
mance	Minimum passing radius	14,200mm
	Parking brake mode	Air brake
Braking perfor-	Parking slope	≥25%
mance	Driving brake mode	Air controlled double circuit drum brake + Motor reverse + Engine cylinder brake
	30km/h Fully loaded brake distance	≤15.75m
	Suspension	Semi-suspened structure
Cabin	Seat	Air spring
Cabiii	Dashboard	Combination dashboard + 10 inch LCD screen
	Air-condition	Cool + heat
Fuel tank volume		1,000L
Approach angle		24°
Departure angle		65°
Minimum ground clearance		415mm
Suspension	structure	Full hydropneumatics suspension





About Us

Xiamen Yimu Intelligence Technology Co., Ltd. (referred to as "Yimu Intelligence" or "the company") is a technology driven startup company, which designs and manufactures new energy intelligent large mining dump trucks, electric engineering machinery, and related products and services. The company's main products are applicable for various engineering conditions, such as mines, ports, steel mill, water conservation projects, highroad constructions, which can significantly reduce costs and increase efficiency for clients.

Three founders of the company all graduated from Tsinghua University with a master degree of Automotive Engineering and have over 15 years of experiences in design, manufacture and sale of engineering machinery, new energy vehicle, assembly of electric drive and vehicle intelligence technology. We are committed to empowering mining with innovative operating platform and making transportation better.





02 HIMADS

Hybrid intelligent Multi Axle Driving & Steering

Based on the market demand for large-scale, intelligent and new energy mining dump trucks, Yimu Intelligence has innovatively built 'HiMADS' -a brand new generation of new energy intelligent mining dump truck platform to effectively addresses the issues faced by domestic mining dump trucks in terms of limited load capacity, restricted supply chain, and high costs in achieving large-scale operations, and well suited for future autonomous driving scenarios. Meanwhile, HiMADS can achieve multi-driving and multi-steering with various driving combinations and energy module.

After multiple iterations and validations, HiMADS has been successfully applied to the new energy intelligent mining dump truck EM165H series.

High flexibility

3

Strong power

Key Features of the HiMADS Platform:

- 1. Large load capacity: HiMADS can be used to produce large mining dump trucks with a load capacity of 115-200 tons.
- 2. Strong power: by adopting the new multi-axle driving technology, HiMADS ensures that the mining dump truck can maintain its maximum speed and robust climbing ability even when carrying its maximum payload.
- 3. High flexibility: by adopting the new multi-axle steering technology, HiMADS ensures that the mining dump truck can maintain a relatively small turning radius.
- 4. Diversity of energy supply: HiMADS adopts Hybrid and mixed power technology which can include various types of energy sources, such as fuel + battery, pure electric drive, methanol range extension, hydrogen range extension, and others.
- 5. Energy saving and environmentally friendly: fuel consumption per ton-kilometer can be reduced by at least 20% in tough working conditions.
- 6. Smart control: Equipped with a multi-controller domain control architecture and V2X system, HiMADS can achieve autonomous driving functions.

Large load capacity

Smart control

Energy saving and environmentally friendly

Diversity of energy supply

MISS

EMI65H

04







After-sales Service





One-year vehicle warranty



Real-time online fault diagnosis, nearby service stations provide fast maintenance response



Spare Parts Supply Program: parts inventory management + parts sales + central warehouse management

N7 Production Capacity

Our self-owned production base and testing center, strictly adhering to the ISO9001 international quality management system standards, ensure product quality and stability. Located in Wuhai, Inner Mongolia, and Suizhou, Hubei, known as the "Special Vehicle City" in China, the center benefits from a well-developed industrial ecosystem and has the advantage of scale production capabilities.

Our manufacturing team has extensive experience in engineering management and mass production. Products developed based on the HiMADS platform can be rapidly prototyped and iterated, and delivered to clients within 3 months.