

Global Off-highway Electric Wide-body Dump Trucks Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Off-highway Electric Wide-body Dump Trucks market size is expected to reach \$ 28215 million by 2032, rising at a market growth of 22.1% CAGR during the forecast period (2026-2032).

Off-highway Electric Wide-body Dump Truck also known as Electric Wide Body Mining Truck, generally refer to mining haulage vehicles with a body width of more than 2.5 meters, refers to a battery-electric, heavy-duty, wide-body dump truck designed for non-road and closed-site material haulage. It uses traction batteries, electric motors, motor controllers, high-voltage electrical systems, electric drive axles and regenerative braking systems as the core powertrain. Unlike road dump trucks, this product is mainly used in mines, quarries, construction sites, ports, steel plants and other off-road or semi-closed operating environments. Its key features include large payload, wide body structure, low-speed high-torque operation, high climbing capability, regenerative braking, lower emissions, lower noise and reduced energy cost compared with diesel-powered wide-body dump trucks.

In 2025, global Off-highway Electric Wide-body Dump Truck production reached approximately 7889 Units, with an average global market price of around US\$ 791 k per unit.

The upstream supply chain of Off-highway Electric Wide-body Dump Trucks mainly includes high-strength steel, battery cells, electric motors, mining tires, etc. Major material suppliers include Baowu Steel, HBIS Group, ArcelorMittal, Nippon Steel, etc.

Off-highway Electric Wide-body Dump Trucks are mainly used in Open Pit Coal Mine, Metal Ore, and Others. Typical customer groups include China Energy Investment

Corporation, China National Coal Group, Shaanxi Coal and Chemical Industry Group, etc.

The gross margin of Off-highway Electric Wide-body Dump Trucks is generally at 20%?35%.

By product type, Off-highway Electric Wide-body Dump Trucks can be divided into Less than 60t, 60t - 100t and Above 100t. The 60t - 100t segment is currently the most widely used mainstream payload category, as it achieves a strong balance among payload capacity, driving range, vehicle cost, road adaptability and operating economy. It is suitable for high-frequency heavy-duty haulage in open pit coal mine, metal ore and non-metallic mines and building material mines.

In terms of application, Off-highway Electric Wide-body Dump Trucks are mainly used in Open Pit Coal Mine, Metal Ore, Non-metallic Mines and Building Material Mines, Infrastructure Projects and Others. Open Pit Coal Mine is one of the most important application fields, where vehicles are used for coal haulage, stripping, overburden removal, dumping and internal short-haul transportation. The relatively fixed routes, high operating frequency, loaded downhill conditions and frequent braking scenarios make this application highly suitable for electrification. Metal Ore applications include iron ore, copper ore, gold ore, bauxite, nickel ore and other metal mining operations, where customers have higher requirements for payload capacity, gradeability, uptime and reliability, usually favoring medium-to-large payload and higher-specification models. Non-metallic Mines and Building Material Mines include limestone mines, cement mines, aggregate quarries, phosphate mines and gypsum mines.

The growth of the Off-highway Electric Wide-body Dump Truck market is driven by green and low-carbon transformation in the mining industry, stricter emission regulations for off-road mobile machinery, fuel cost volatility, electricity cost advantages, declining battery costs, improving electric drive system maturity, expanding charging and battery-swapping infrastructure, and accelerated smart mine development. Off-road wide-body dump trucks usually operate at high intensity and consume large amounts of diesel, making energy cost a significant part of total operating cost. Under suitable working conditions, electrification can reduce unit haulage cost. As mining companies place greater emphasis on carbon reduction, dust control, noise reduction and safety management, the value proposition of Off-highway Electric Wide-body Dump Trucks becomes more evident in open pit coal mine, metal ore and non-metallic mines and building material mines. At the same time, the continuous development of remote monitoring, energy management, autonomous driving, fleet dispatching and battery

health management technologies is transforming the product from a single-vehicle purchase into an integrated haulage solution.

The market still faces several restraints, including high initial purchase cost, uncertainty over battery life and residual value, driving range fluctuation under low-temperature and high-temperature conditions, high energy consumption under long-distance heavy uphill haulage, high investment requirements for charging and battery-swapping stations, insufficient grid capacity in some mining areas, uneven after-sales service coverage and long customer validation cycles for new technologies. For remote mines and temporary infrastructure projects, energy replenishment facilities, power access and maintenance support may become major barriers to large-scale adoption. Although pure electric models offer advantages in energy cost and emissions, they still need to address replenishment efficiency, battery thermal management, regenerative braking stability and whole-vehicle durability under continuous heavy-duty operations. Therefore, future market competition will depend not only on vehicle price, but also on energy replenishment systems, vehicle reliability, service capability, intelligent functions and total lifecycle cost advantages.

This report studies the global Off-highway Electric Wide-body Dump Trucks production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Off-highway Electric Wide-body Dump Trucks and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Off-highway Electric Wide-body Dump Trucks that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Off-highway Electric Wide-body Dump Trucks total production and demand, 2021-2032, (Units)

Global Off-highway Electric Wide-body Dump Trucks total production value, 2021-2032, (USD Million)

Global Off-highway Electric Wide-body Dump Trucks production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Off-highway Electric Wide-body Dump Trucks consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Off-highway Electric Wide-body Dump Trucks domestic production,

consumption, key domestic manufacturers and share

Global Off-highway Electric Wide-body Dump Trucks production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Off-highway Electric Wide-body Dump Trucks production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Off-highway Electric Wide-body Dump Trucks production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Off-highway Electric Wide-body Dump Trucks market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Caterpillar, Komatsu, Shaanxi Tonly, Zhengzhou Yutong, Sunward Intelligent, XCMG, Huzhou Hongwei, Tianjin Know-how Technology, SANY Group, Liugong Machinery, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Off-highway Electric Wide-body Dump Trucks market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Off-highway Electric Wide-body Dump Trucks Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Off-highway Electric Wide-body Dump Trucks Market, Segmentation by Type:

Less than 60t

60t - 100t

Above 100t

Global Off-highway Electric Wide-body Dump Trucks Market, Segmentation by Power Type:

Pure Electric

Hybrid

Global Off-highway Electric Wide-body Dump Trucks Market, Segmentation by Sales Channel:

Direct Sales

Indirect Sales

Global Off-highway Electric Wide-body Dump Trucks Market, Segmentation by Application:

Open Pit Coal Mine

Metal Ore

Non-metallic Mines and Building Material Mines

Infrastructure Projects

Others

Companies Profiled:

Caterpillar

Komatsu

Shaanxi Tonly

Zhengzhou Yutong

Sunward Intelligent

XCMG

Huzhou Hongwei

Tianjin Know-how Technology

SANY Group

Liugong Machinery

Zoomlion

SAIC Hongyan

Key Questions Answered:

1. How big is the global Off-highway Electric Wide-body Dump Trucks market?
2. What is the demand of the global Off-highway Electric Wide-body Dump Trucks

market?

3. What is the year over year growth of the global Off-highway Electric Wide-body Dump Trucks market?
4. What is the production and production value of the global Off-highway Electric Wide-body Dump Trucks market?
5. Who are the key producers in the global Off-highway Electric Wide-body Dump Trucks market?
6. What are the growth factors driving the market demand?

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