

Global Electric Heavy Truck Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electric Heavy Truck market size is expected to reach \$ 90144 million by 2032, rising at a market growth of 19.5% CAGR during the forecast period (2026-2032).

In 2025, the global production of Electric Heavy Truck reached approximately 83,000 units, with an average global market price of around US\$200,000–US\$400,000 unit. In the same year, the global total production capacity of Electric Heavy Truck reached 100,000 units. The industry average gross profit margin of this product reached 24%. Electric heavy trucks refer to commercial vehicles that use batteries or other electric drive systems as their primary power source to undertake medium- and long-distance or high-load logistics transportation tasks. They typically have a gross vehicle weight of 14 tons or more, sometimes reaching 49 tons. Their core characteristic is the replacement of traditional diesel engines with electric motors, achieving zero emissions, low noise, and high energy efficiency. Simultaneously, relying on battery management systems (BMS), electric drive systems, and intelligent connectivity technologies, they achieve efficient transportation and operational optimization, making them key equipment for the transformation of heavy logistics towards low-carbon and electric power.

The upstream of the electric heavy truck industry chain mainly includes power batteries, motors, electronic control systems, IGBT/SiC power devices, automotive-grade chips, and basic materials such as steel and aluminum. The midstream involves vehicle manufacturing and system integration, encompassing OEMs, electric drive system integrators, and chassis and body manufacturers, while also involving the manufacturing of charging and battery swapping system equipment. The downstream primarily targets logistics transportation, leasing companies, and large fleet customers, extending to charging infrastructure operation, energy services, and after-sales

services, presenting an integrated development trend of 'vehicle + electricity + energy + service.' The electric heavy-duty truck industry has a high degree of certainty in future growth, mainly driven by global carbon neutrality policies, increasingly stringent diesel vehicle emission regulations, energy structure transformation, and operating cost advantages. With the total cost of ownership (TCO) gradually decreasing compared to diesel vehicles, electric heavy-duty trucks have achieved commercial closed loop in short-haul transportation and are gradually penetrating into long-haul logistics. Coupled with the maturity of battery swapping models, the development of supercharging technology, and the improvement of battery energy density, the industry is expected to maintain high-speed growth in the next 5-10 years, with market penetration rapidly increasing from the current low level. At the same time, the integration of autonomous driving, electrification, and fleet digitalization will further improve industry efficiency and become an important infrastructure for the smart logistics system.

This report studies the global Electric Heavy Truck production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electric Heavy Truck 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 Electric Heavy Truck that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electric Heavy Truck total production and demand, 2021-2032, (Units)

Global Electric Heavy Truck total production value, 2021-2032, (USD Million)

Global Electric Heavy Truck production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Electric Heavy Truck consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Electric Heavy Truck domestic production, consumption, key domestic manufacturers and share

Global Electric Heavy Truck production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Electric Heavy Truck production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Electric Heavy Truck production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Electric Heavy Truck 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 Volvo, Tesla, Nikola Corporation, Daimler Trucks, Kenworth, Xos, Workhorse Trucks, Mercedes-Benz, Toyota, Hyundai Motor, 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 Electric Heavy Truck market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 Electric Heavy Truck Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electric Heavy Truck Market, Segmentation by Type:

Pure Electric Heavy-Duty Truck

Hydrogen Fuel Cell Heavy-Duty Truck

Hydrogen Hybrid Heavy-Duty Truck

Global Electric Heavy Truck Market, Segmentation by Power Replenishment Method:

Rechargeable

Battery Swapping

Hydrogen Fueling

Global Electric Heavy Truck Market, Segmentation by Vehicle Tonnage:

Medium-Duty Electric Truck (14–25 tons)

Heavy-Duty Electric Truck (25–40 tons)

Extra-Heavy-Duty Tractor (40–49 tons)

Global Electric Heavy Truck Market, Segmentation by Application:

Mining

Ports

Logistics

Municipal

Others

Companies Profiled:

Volvo

Tesla

Nikola Corporation

Daimler Trucks

Kenworth

Xos

Workhorse Trucks

Mercedes-Benz

Toyota

Hyundai Motor

BYD

Dayun Automobile

Beiben Trucks Group

Sany Group

XCMG

Hanma Technology

Yutong Bus

SAIC HONGYAN

BAIC Foton Motor

Faw Jiefang Group

Key Questions Answered:

1. How big is the global Electric Heavy Truck market?
2. What is the demand of the global Electric Heavy Truck market?
3. What is the year over year growth of the global Electric Heavy Truck market?
4. What is the production and production value of the global Electric Heavy Truck market?
5. Who are the key producers in the global Electric Heavy Truck market?
6. What are the growth factors driving the market demand?

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