

Global Heavy-Duty Truck Electric Drive Powertrain Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Heavy-Duty Truck Electric Drive Powertrain Systems market size is expected to reach \$ 19574 million by 2032, rising at a market growth of 17.6% CAGR during the forecast period (2026-2032).

Heavy-Duty Truck Electric Drive Powertrain Systems refer to integrated electric propulsion and driveline systems used in new energy heavy-duty trucks. These systems convert electrical energy into tractive force and perform speed reduction, gear shifting, torque distribution and power delivery. A typical system may include traction motors, motor controllers, reducers, electrified transmissions, differentials, electric drive axles, half shafts, axle housings, cooling units and control modules. Major configurations include central drive systems, integrated electric drive axle systems, distributed electric drive systems and hybrid electrified transmission systems.

Heavy-Duty Truck Electric Drive Powertrain Systems are mainly used in battery electric trucks, battery-swapping trucks, fuel cell electric trucks, plug-in hybrid trucks and range-extended heavy-duty trucks. Typical applications include port drayage, steel mill transport, mining haulage, construction dump trucks, tractor trucks, regional logistics and municipal refuse vehicles. Major production and application regions include China, Europe and North America. China is advancing fastest in commercial deployment, battery-swapping heavy trucks and integrated e-axle applications, while Europe and North America are mainly driven by zero-emission freight, regional distribution and high-end electric powertrain platforms.

In 2025, global Heavy-Duty Truck Electric Drive Powertrain Systems production reached approximately 285,000-325,000 units, with mainstream OEM-level FOB prices

ranging from USD 15,000 to USD 21,000 per unit. Price differences mainly depend on system architecture, rated power, number of gears, motor configuration, e-axle integration, electrified transmission content, thermal management design and control unit configuration. High-power dual-motor e-axes and multi-speed electrified transmission systems are generally positioned at the upper end of the price range.

The global Heavy-Duty Truck Electric Drive Powertrain Systems market is moving from early demonstration toward scalable commercialization. Electric heavy-duty trucks are gaining traction first in high-utilization operating scenarios such as ports, mines, steel mills, aggregates transport, urban construction and regional delivery. Growth is mainly driven by lower operating costs, diesel substitution, tighter emission regulations, the expansion of battery-swapping and fast-charging infrastructure, and continuous improvement in vehicle platform integration. Compared with conventional engine, transmission and axle combinations, electric drive powertrain systems can reduce mechanical driveline losses, deliver stronger low-speed torque and free up more packaging space for vehicle design. As e-axes, central drive units and electrified transmissions develop in parallel, competition is shifting from individual components to complete system architecture.

At the same time, the market still faces challenges in cost, reliability, thermal management, service networks and duty-cycle matching. Long-haul trucking is more sensitive to range, charging time and payload, while high-power e-axes and multi-speed electrified transmissions improve efficiency and gradeability but also increase system cost and calibration complexity. Over the next few years, downstream demand will expand in two directions. Closed-loop scenarios such as short-haul transport, mining, ports and steel mills will accelerate standardized system adoption, while tractor trucks and premium logistics fleets will drive upgrades toward dual-motor, multi-speed, lightweight and high-efficiency integrated systems. For OEMs and Tier 1 suppliers, the ability to balance cost, reliability, energy consumption and platform compatibility will determine access to the next generation of new energy heavy-duty truck programs.

This report studies the global Heavy-Duty Truck Electric Drive Powertrain Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Heavy-Duty Truck Electric Drive Powertrain Systems 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 Heavy-Duty Truck Electric Drive Powertrain Systems that contribute to its increasing demand

across many markets.

Highlights and key features of the study

Global Heavy-Duty Truck Electric Drive Powertrain Systems total production and demand, 2021-2032, (Units)

Global Heavy-Duty Truck Electric Drive Powertrain Systems total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Heavy-Duty Truck Electric Drive Powertrain Systems domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Heavy-Duty Truck Electric Drive Powertrain Systems 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 ZF Friedrichshafen AG, Dana Incorporated, Cummins Inc., Allison Transmission, Inc., Eaton Corporation plc, Danfoss A/S, Voith GmbH & Co. KGaA, BAE Systems plc, Kessler + Co. GmbH & Co. KG, Wabtec Corporation, 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 Heavy-Duty Truck Electric Drive Powertrain Systems 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 Heavy-Duty Truck Electric Drive Powertrain Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Heavy-Duty Truck Electric Drive Powertrain Systems Market, Segmentation by Type:

Central Drive Systems

Integrated Electric Drive Axle Systems

Hybrid Electric Transmission Systems

Others

Global Heavy-Duty Truck Electric Drive Powertrain Systems Market, Segmentation by Gross Vehicle Weight:

31 t to 49 t Trucks

49 t to 80 t Trucks

Others

Global Heavy-Duty Truck Electric Drive Powertrain Systems Market, Segmentation by Motor Configuration:

Single Motor Systems

Dual Motor Systems

Multiple Motor Systems

Global Heavy-Duty Truck Electric Drive Powertrain Systems Market, Segmentation by Drive Layout:

Single Rear Drive Axle Systems

Tandem Drive Axle Systems

Central Propeller Shaft Drive Systems

Global Heavy-Duty Truck Electric Drive Powertrain Systems Market, Segmentation by Application:

Battery Electric Trucks

Plug-in Hybrid and Range-Extended Trucks

Fuel Cell Electric Trucks

Others

Companies Profiled:

ZF Friedrichshafen AG

Dana Incorporated

Cummins Inc.

Allison Transmission, Inc.

Eaton Corporation plc

Danfoss A/S

Voith GmbH & Co. KGaA

BAE Systems plc

Kessler + Co. GmbH & Co. KG

Wabtec Corporation

Robert Bosch GmbH

BorgWarner Inc.

Schaeffler AG

Equipmake Holdings plc

Turntide Technologies Inc.

Hyundai Transys Inc.

Shaanxi Fast Auto Drive Group Co., Ltd.

Shaanxi Hande Axle Co., Ltd.

Suzhou Lvkon Transmission S&T Co., Ltd.

Tebaijia Powertrain Technology Co., Ltd.

Jing-Jin Electric Technologies Co., Ltd.

Shanghai Edrive Co., Ltd.

Suzhou Inovance Automotive Co., Ltd.

Shanghai OE Industrial Co., Ltd.

Key Questions Answered:

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

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