

Global EV Rotor Shaft Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global EV Rotor Shaft market size is expected to reach \$ 1063 million by 2032, rising at a market growth of 11.8% CAGR during the forecast period (2026-2032).

In 2025, global sales of electric vehicle (EV) motor shafts are projected to reach approximately 21 million units, with an average price of around \$22 per unit.

The motor shaft is a critical mechanical component within the EV drive system; it not only transmits torque output from the motor but also converts the motor's rotational motion into driving force for the wheels. Positioned inside the rotor and connected to the silicon steel laminations within the rotor's center bore, the shaft drives the rotor's rotation, serving as a core element of the motor's powertrain.

Upstream activities primarily encompass alloy steel, seamless steel tubing, forgings and heat treatment, precision machining, and surface treatment, while downstream applications mainly target drive motors, integrated electric drive axles, and the manufacturing of complete new energy vehicles.

Key market drivers include the following:

Expansion of the New Energy Vehicle (NEV) market drives baseline demand

As battery electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs) increasingly replace traditional internal combustion engine models, the drive motor has become a core component of the vehicle's powertrain. Each drive motor requires a rotor shaft to facilitate rotor support, rotational positioning, and torque output; furthermore, some dual-motor, quad-motor, and hybrid models utilize multiple electric drive units.

Consequently, the broadening scope of NEV products, the proliferation of vehicle platforms, and the expansion from passenger vehicles to commercial, construction, and specialty vehicles will directly increase the demand for motor rotor shafts. Moreover, given the long lifecycles of vehicle platforms, once a rotor shaft passes validation for materials, fatigue, dynamic balance, and durability, it typically enters a phase of continuous supply alongside the motor platform, resulting in stable, high-volume orders.

The trend toward high-speed and lightweight electric drive systems drives product upgrades

Increasing demands for driving range, power performance, and space efficiency in NEVs are driving the evolution of drive motors toward higher rotational speeds, higher power density, and miniaturization. While increasing rotational speed allows for smaller motor dimensions without sacrificing output power, it significantly raises the requirements for rotor shafts regarding centrifugal loads, vibration resistance, dynamic balancing precision, and fatigue strength. Consequently, traditional solid shafts are evolving into hollow, thin-walled, and composite shaft designs to reduce rotational mass and moment of inertia. High-performance products also require advanced manufacturing processes—such as precision forging, deep-hole machining, friction welding, laser welding, rotary swaging, and high-precision grinding—thereby increasing both manufacturing complexity and product value-added.

Integration of electric drive axles and thermal management needs create structural opportunities

The industry is rapidly moving toward integrated electric drive axles that combine the motor, reducer, inverter, and control system. In this context, the rotor shaft is no longer merely an independent transmission component; it increasingly performs multifaceted functions such as gear input, spline connection, bearing positioning, sealing interfaces, and the conveyance of cooling media. High-power motors generate significant heat during sustained high-speed or heavy-load operation, accelerating the adoption of hollow rotor shafts equipped with internal oil or liquid cooling channels. At the same time, OEMs are advancing the modularization of electric drive platforms and the standardization of components, imposing stricter requirements regarding dimensional consistency, NVH performance, quality traceability, and automated production capabilities for rotor shafts. The transition from simple solid shafts to high-precision composite hollow shafts, internally cooled shafts, and integrated gear-shaft units will serve as a key driver of market value growth.

Report Scope

This report studies the global EV Rotor Shaft production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for EV Rotor Shaft 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 EV Rotor Shaft that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global EV Rotor Shaft total production and demand, 2021-2032, (K Units)

Global EV Rotor Shaft total production value, 2021-2032, (USD Million)

Global EV Rotor Shaft production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global EV Rotor Shaft consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: EV Rotor Shaft domestic production, consumption, key domestic manufacturers and share

Global EV Rotor Shaft production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global EV Rotor Shaft production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global EV Rotor Shaft production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global EV Rotor Shaft 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 Hirschvogel, Chongqing Chuangjing Warm Forging Forming Company, Thyssenkrupp, Jin Rixin Shaft, Pacific Precision Forging, Nanjing Chervon Auto, Zhejiang Nessler Machinery, POPPE+POTTHOFF, Changzhou NRB Corporation, Chongqing Longwen Machinery Equipment Co., Ltd., 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 EV Rotor Shaft market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 EV Rotor Shaft Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EV Rotor Shaft Market, Segmentation by Type:

Hollow Shaft

Solid Shaft

Global EV Rotor Shaft Market, Segmentation by Maximum Operating Speed:

≤15,000 rpm

15,001—25,000 rpm

≥25,000 rpm

Global EV Rotor Shaft Market, Segmentation by Transmitted Torque:

Light-Load Torque Shaft

Medium-Load Torque Shaft

Heavy-Load Torque Shaft

Global EV Rotor Shaft Market, Segmentation by Application:

Passenger Vehicle

Commercial Vehicle

Companies Profiled:

Hirschvogel

Chongqing Chuangjing Warm Forging Forming Company

Thyssenkrupp

Jin Rixin Shaft

Pacific Precision Forging

Nanjing Chervon Auto

Zhejiang Nessral Machinery

POPPE+POTTHOFF

Changzhou NRB Corporation

Chongqing Longwen Machinery Equipment Co., Ltd.

Zhejiang Feida Precision Manufacturing

Dalian Demaishi Precision

AAM (Tekfor)

Foshan Leateck Electric Co., Ltd.

Key Questions Answered:

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

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