

Global Shaft Grounding Ring for EV Motor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Shaft Grounding Ring for EV Motor market size was valued at US\$ 129 million in 2025 and is forecast to a readjusted size of US\$ 225 million by 2032 with a CAGR of 8.2% during review period.

In 2025, global Shaft Grounding Ring for EV Motor production reached approximately 11.9 million units with an average price of USD \$10.5 per unit. This market represents a small but increasingly strategic reliability component inside inverter-driven electric powertrains. The product is purchased by traction motor makers, e-axle suppliers, sealing specialists, and EV OEM platforms to manage shaft voltage before it damages bearings or creates noise and electromagnetic interference. Commercial forms range from conductive microfiber rings and carbon brush rings to conductive PTFE washers and seal-integrated grounding elements for oil-cooled high-speed motors. It should be separated from ordinary carbon brushes, grounding straps, EMI filters, insulated bearings, and generic radial shaft seals because its value is tied to controlled shaft-to-housing current diversion in compact EV drive units. Its market research value lies in the fact that it is not a large standalone subsystem, but a hidden enabling component whose adoption rises with higher inverter voltage, faster motor speed, tighter NVH requirements, and longer warranty expectations.

Shaft Grounding Ring For EV Motor should be understood as a reliability and protection component embedded in the electric drive supply chain rather than as a generic motor accessory. Its commercial boundary is defined by shaft-voltage discharge in traction motors, e-axes, and inverter-fed high-voltage drive units. The relevant buying decision is normally made at the motor, seal, bearing, or e-drive module design stage, so the market is closely linked to platform qualification, validation cycles, and warranty risk

management. This makes the segment smaller than the broader bearing protection market, but more demanding in terms of speed, oil compatibility, electrical resistance stability, compact packaging, and long-life performance. 2) Demand expectations are supported by the expansion of BEV and plug-in hybrid production, the migration toward higher-voltage architectures, and the increasing use of compact high-speed electric motors. As switching frequencies, rotational speeds, and power densities rise, the probability of shaft voltage and bearing-current issues becomes more visible to OEM engineering teams. Growth should therefore be faster than conventional industrial motor accessories, but slower than core EV subsystems such as batteries, inverters, or traction motors because one vehicle may use alternative mitigation routes or integrate the grounding function into another purchased component. 3) The current supplier structure is split between sealing-system companies, bearing companies, carbon and brush specialists, and dedicated shaft grounding technology providers. KACO, Freudenberg, NOK, Trelleborg, Parker, and Hutchinson are relevant because the function can be integrated into sealing positions close to the rotor shaft. SKF and NSK are relevant because bearing protection can be addressed through bearing-adjacent engineering. Electro Static Technology, Helwig, Schunk, and similar specialists represent the grounding ring or brush-based technology route. This structure means the competitive field is not defined only by companies selling a product explicitly named shaft grounding ring, but also by companies that embed the same function into seal or e-drive modules. 4) Growth factors are mainly technical and qualification-driven. Higher inverter voltage increases the need for stable discharge paths. Oil-cooled motors require materials that maintain conductivity without excessive wear or contamination. Integrated e-axes reduce free packaging space, favoring thinner rings or seal-integrated solutions. Warranty economics also matter: a low-cost protective component can prevent expensive bearing noise, fluting, and drivetrain replacement claims. At the same time, adoption is restrained by competing solutions such as insulated bearings, ceramic rolling elements, conductive grease, optimized inverter control, and system-level grounding design. 5) The product's market position is therefore a narrow but defensible EV reliability niche. It is not usually visible in headline EV bill-of-material analysis, yet it can become critical once platforms move from low-volume launch to mass production. Future competition will likely focus less on ring geometry alone and more on validated lifetime performance under high speed, oil exposure, temperature cycling, and electromagnetic compatibility requirements. For market research, the segment should be tracked as a function-specific component market across grounding rings, conductive sealing elements, and bearing-current diversion modules rather than as a simple subset of ordinary motor accessories.

This report is a detailed and comprehensive analysis for global Shaft Grounding Ring

for EV Motor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Contact Element Structure and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Shaft Grounding Ring for EV Motor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Shaft Grounding Ring for EV Motor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Shaft Grounding Ring for EV Motor market size and forecasts, by Contact Element Structure and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Shaft Grounding Ring for EV Motor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Shaft Grounding Ring for EV Motor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Shaft Grounding Ring for EV Motor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key

companies covered as a part of this study include Zhongding Group (KACO GmbH + Co. KG), Freudenberg SE (Freudenberg Sealing Technologies), Dover Corporation (Inpro/Seal), SKF Group, Illinois Tool Works Inc. (Electro Static Technology), ElringKlinger AG, Parker Hannifin Corporation, Trelleborg AB (Trelleborg Sealing Solutions), Schunk Group (Schunk Carbon Technology), Suzhou Volsun Electronics Technology Co., Ltd., etc.

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

Market Segmentation

Shaft Grounding Ring for EV Motor market is split by Contact Element Structure and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Contact Element Structure, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Contact Element Structure

Conductive Microfiber Ring

Conductive PTFE Washer

Carbon Brush Ring

Conductive Seal Ring

Others

Market segment by Integration Form

Standalone Shaft Ring

Shaft Seal Integrated Ring

Bearing Adjacent Module

E-Axle Integrated Assembly

Others

Market segment by Shaft Diameter Range

Below 20 mm

20?35 mm

35?50 mm

Above 50 mm

Market segment by Application

Electric Commercial Vehicles

Plug-In Hybrid Vehicles

Electric Off-Highway Vehicles

Others

Major players covered

Zhongding Group (KACO GmbH + Co. KG)

Freudenberg SE (Freudenberg Sealing Technologies)

Dover Corporation (Inpro/Seal)

SKF Group

Illinois Tool Works Inc. (Electro Static Technology)

ElringKlinger AG

Parker Hannifin Corporation

Trelleborg AB (Trelleborg Sealing Solutions)

Schunk Group (Schunk Carbon Technology)

Suzhou Volsun Electronics Technology Co., Ltd.

Hutchinson

NOK Corporation

Helwig Carbon Products, Inc.

NSK Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Shaft Grounding Ring for EV Motor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Shaft Grounding Ring for EV Motor, with

price, sales quantity, revenue, and global market share of Shaft Grounding Ring for EV Motor from 2021 to 2026.

Chapter 3, the Shaft Grounding Ring for EV Motor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Shaft Grounding Ring for EV Motor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Contact Element Structure and by Application, with sales market share and growth rate by Contact Element Structure, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Shaft Grounding Ring for EV Motor market forecast, by regions, by Contact Element Structure, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Shaft Grounding Ring for EV Motor.

Chapter 14 and 15, to describe Shaft Grounding Ring for EV Motor sales channel, distributors, customers, research findings and conclusion.

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