

Global Carbon Brushes for Traction Motors Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/CF43979A8533EN.html>

Date: February 2026

Pages: 161

Price: US\$ 2,980.00 (Single User License)

ID: CF43979A8533EN

Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Carbon Brushes for Traction Motors competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. In 2024, global production of carbon brushes for traction motors reached 45.11 million units, with an average selling price of US\$38 per brush. Carbon brushes for traction motors are "conductive wear parts" that stably introduce current from the stationary end to the motor rotor. They rely on carbon graphite/metal graphite materials, copper braided leads, and spring pressure to form reliable contact on the commutator or slip rings. They are mainly used in railways and urban rail transit, and their advantages include high current handling capacity, mature maintenance technology, and strong environmental adaptability. Upstream components include petroleum coke/needle coke and artificial graphite, metal powder (copper/silver), phenolic resin, lubricants and impregnating agents, braided copper stranded wire, spring steel, and insulation components; downstream components are for traction motors and vehicle MRO spare parts. Gross profit is approximately 20-30%. The carbon brush market for traction motors generally exhibits a pattern of "existing equipment maintenance as the foundation, solution-driven upgrades driving value, and structural differentiation resulting from the migration to brushless systems." On the demand side, demand is primarily supported by the regular maintenance and overhaul of existing heavy-duty equipment such as DC traction systems for urban rail/mainline railways. Newly built platforms are gradually becoming brushless, but it's difficult to quickly replace the vast amount of in-service equipment in the short to medium term. Regionally, the Asia-Pacific region leverages the localization of vehicle and component production to achieve scale and delivery speed advantages, Europe emphasizes low noise and film-based stability, traceability, and environmental compliance, while North

America focuses on high reliability and spare parts availability. On the supply side, materials and processes use electrolytic graphite/metallic graphite, impregnation formulations, surface geometry, and spring mechanics matching to balance high current carrying capacity, low spark/low dust, and wear-resistant properties. Technological trends focus on longer lifespan and low-dust formulations, condition monitoring and predictive maintenance with wear/temperature sensing, quick-change kits and standardized tooling, as well as local inventory and dual-supply assurance chains.

The global Carbon Brushes for Traction Motors market size was estimated at USD 1714.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Carbon Brushes for Traction Motors market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Carbon Brushes for Traction Motors market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Carbon Brushes for Traction Motors market.

Global Carbon Brushes for Traction Motors Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the

overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Morteng Technology
Mersen
Schunk
Fuji Carbon Manufacturing
SLG Carbon
Harbin Baked Fabricated Carbons Factory
Anhui Huiguang Carbon Products
Magical Carbon Group
Morgan Advanced Materials
TRIS, Inc.
Zigong Dong Xin Carbon
Helwig Carbon
Ohio Carbon Industries
MCBF
Dawopu Group
Resonac

Market Segmentation (by Type)

Electrographite
Metal Graphite
Bakelite Graphite
Others

Market Segmentation (by Application)

Urban Rail Transit

Long Distance Rail Transit

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Carbon Brushes for Traction Motors Market

Overview of the regional outlook of the Carbon Brushes for Traction Motors Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Carbon Brushes for Traction Motors Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the

market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Carbon Brushes for Traction Motors, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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