

Global Railway Pantograph Slider Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Railway Pantograph Slider market size was valued at USD 436 million in 2023 and is forecast to a readjusted size of USD 578.2 million by 2030 with a CAGR of 4.1% during review period.

The main application areas of railway pantograph sliders are high-speed rail EMUs, electric locomotives, subways and light rails. The carbon slider is the main component of the electric train and the key part of the pantograph. The quality of the carbon slider directly affects the power supply and operational safety of the entire train. The railway pantograph slider can be divided into single-arm bows and double-arm bows. Both are composed of sliders, upper frames, lower arm rods (lower frame for double-arm bow), underframes, bow springs, transmission cylinders, support insulators, etc. . The slider is a component that directly contacts the contact wire and receives current. It is one of the pantograph's wearing parts and has a limited replacement cycle. At present, the main types of sliders used in China are pure carbon sliders, metal-immersed carbon sliders and powder metallurgy sliders. Among them, pure carbon sliders and metal-impregnated carbon sliders have become special slides for high-speed trains and other trains with speeds exceeding 200 kilometers per hour due to their good wear resistance, electrical conductivity, protection of contact lines, and resistance to variable weather.

In railway, electric locomotives and urban light rails are mainly used. Among them, two pantographs are generally installed on electric locomotives. In normal operation, only the rear bow is raised, and the front bow is used for backup.

Railway Pantograph Slider are classified into Pure Carbon Slider and Metallic Carbon

Slider, and the first kind took up over 63% of the production market.

In terms of application, Railway Pantograph Slider are used in Electric locomotive, EMU, Railway Locomotive and Subway/Light Rail. Among the listed fields, Electric locomotive was the most popular application with the production market share of 63.8%.

The Global Info Research report includes an overview of the development of the Railway Pantograph Slider industry chain, the market status of Electric Locomotive (Pure Carbon Slider, Metallic Carbon Slider), EMU (Pure Carbon Slider, Metallic Carbon Slider), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Railway Pantograph Slider.

Regionally, the report analyzes the Railway Pantograph Slider markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Railway Pantograph Slider market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Railway Pantograph Slider market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Railway Pantograph Slider industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Pure Carbon Slider, Metallic Carbon Slider).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Railway Pantograph Slider market.

Regional Analysis: The report involves examining the Railway Pantograph Slider market at a regional or national level. Report analyses regional factors such as government

incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Railway Pantograph Slider market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Railway Pantograph Slider:

Company Analysis: Report covers individual Railway Pantograph Slider manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Railway Pantograph Slider. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Electric Locomotive, EMU).

Technology Analysis: Report covers specific technologies relevant to Railway Pantograph Slider. It assesses the current state, advancements, and potential future developments in Railway Pantograph Slider areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Railway Pantograph Slider market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Railway Pantograph Slider market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Pure Carbon Slider

Metallic Carbon Slider

Other

Market segment by Application

Electric Locomotive

EMU

Subway/Light Rail

Major players covered

Schunk Carbon Technology

Morgan Advanced Materials

Yiyang Group

Wabtec Corporation

Vanguard Tech

LiaoNing HongDe Electrical Carbon Products Co., LTD,

Doneka

Mersen

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 Railway Pantograph Slider product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Railway Pantograph Slider, with price, sales, revenue and global market share of Railway Pantograph Slider from 2019 to 2024.

Chapter 3, the Railway Pantograph Slider competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Railway Pantograph Slider breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Railway Pantograph Slider market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Railway

Pantograph Slider.

Chapter 14 and 15, to describe Railway Pantograph Slider sales channel, distributors, customers, research findings and conclusion.

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