

Global High Speed Train Powder Metallurgy Brake Pad Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global High Speed Train Powder Metallurgy Brake Pad market size was valued at US\$ 194 million in 2024 and is forecast to a readjusted size of USD 257 million by 2031 with a CAGR of 4.1% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

These brake pads are advanced components specifically designed for high-speed trains. They are manufactured using powder metallurgy technology, which involves the compaction of metal powders followed by sintering. This process produces brake pads with high strength, excellent wear resistance, and superior thermal stability. Powder metallurgy brake pads are highly efficient in dissipating heat and maintaining consistent braking performance under extreme conditions, making them ideal for the rigorous demands of high-speed rail applications. Powder metallurgy brake pads are primarily categorized into iron-based and copper-based types. Iron-based powder metallurgy brake pads exhibit significant fluctuations in friction coefficient and are mainly used in railway freight cars. Copper-based pads, on the other hand, offer superior overall performance and stable friction coefficients. They are widely adopted in high-speed trains, including Japan's Shinkansen, France's TGV, Germany's ICE, and China's high-speed rail EMUs (Electric Multiple Units).

This report is a detailed and comprehensive analysis for global High Speed Train Powder Metallurgy Brake Pad market. Both quantitative and qualitative analyses are

presented by manufacturers, by region & country, by Type 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 High Speed Train Powder Metallurgy Brake Pad market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global High Speed Train Powder Metallurgy Brake Pad market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global High Speed Train Powder Metallurgy Brake Pad market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global High Speed Train Powder Metallurgy Brake Pad market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 High Speed Train Powder Metallurgy Brake Pad
- 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 High Speed Train Powder Metallurgy Brake Pad 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 Knorr-Bremse, Tian Yi Shang Jia, Akebono Brake Industry, CRRC Qishuyan Institute, Dawin Friction, Flertex, Bosun, Puran Technology, etc.

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

Market Segmentation

High Speed Train Powder Metallurgy Brake Pad market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Copper-Based Brake Pads

Iron-Based Brake Pads

Market segment by Application

OEM

Aftermarket

Major players covered

Knorr-Bremse

Tian Yi Shang Jia

Akebono Brake Industry

CRRC Qishuyan Institute

Dawin Friction

Flertex

Bosun

Puran Technology

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 High Speed Train Powder Metallurgy Brake Pad product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High Speed Train Powder Metallurgy Brake Pad, with price, sales quantity, revenue, and global market share of High Speed Train Powder Metallurgy Brake Pad from 2020 to 2025.

Chapter 3, the High Speed Train Powder Metallurgy Brake Pad competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High Speed Train Powder Metallurgy Brake Pad breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and High Speed Train Powder Metallurgy Brake Pad market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 High Speed Train Powder Metallurgy Brake Pad.

Chapter 14 and 15, to describe High Speed Train Powder Metallurgy Brake Pad sales channel, distributors, customers, research findings and conclusion.

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