

Global Friction Materials for Servo Brakes 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 Friction Materials for Servo Brakes market size was valued at US\$ 560 million in 2025 and is forecast to a readjusted size of US\$ 797 million by 2032 with a CAGR of 5.0% during review period.

Friction materials for servo brakes are functional materials installed in precision braking mechanisms—such as spring-applied electromagnetic brakes and permanent magnet brakes—that generate braking torque through contact with armature plates or friction discs, thereby enabling rapid braking, power-off holding, and precise positioning for servo motors. These materials primarily include resin-based organic friction materials, semi-metallic friction materials, sintered metal friction materials, and ceramic-carbon composites. In 2025, global sales volume for these friction materials is approximately 14,800 metric tons, with an average unit price of around \$36.80 per kilogram; the industry's capacity utilization rate stands at approximately 77.40%, and the average gross profit margin for manufacturers is about 30.50%. Upstream suppliers operate in sectors such as phenolic resins, aramid fibers, copper and iron powders, graphite, ceramic abrasives, rubber, friction modifiers, and specialty adhesives, while downstream customers include manufacturers of servo electromagnetic brakes, servo motors, industrial robots, CNC machine tools, automation equipment, and precision transmission systems. The product cost structure comprises raw materials (resins, reinforcing fibers, metal powders, graphite, fillers, etc.) at approximately 46%; processing steps (mixing, molding, curing, sintering, precision machining) at 21%; labor at 10%; energy at 6%; equipment depreciation at 5%; R&D and quality inspection at 7%; and packaging and logistics at 5%. Downstream applications include industrial robot joint braking, collaborative robot safety holding, CNC machine tool feed-axis braking, precision positioning for semiconductor equipment, vertical-axis fall prevention

for automated production lines, logistics equipment braking, medical robot positioning, and wind turbine pitch control. Key downstream customers include mayr, KEB Automation, Kendrion, Ogura Clutch, Miki Pulley, Sinfonia Technology, Chengdu Ruidi Intelligent Drive, Yaskawa Electric, FANUC, Mitsubishi Electric, Siemens, Inovance Technology, and Estun. Policy drivers stem primarily from the development of intelligent manufacturing and robotics, the upgrading of industrial equipment safety standards, and the localization of high-end equipment; technological innovation focuses on high static friction coefficients, low wear, low noise, high-temperature resistance, asbestos-free composition, low dust generation, and long-term friction torque stability; meanwhile, end-customer demands are shifting from basic braking functionality toward lightweighting, miniaturization, extended service life, maintenance-free operation, and high reliability—creating significant new business opportunities for high-performance aramid composites, eco-friendly resin formulations, low-copper semi-metallic materials, and customized friction pads designed for humanoid robots and high-power-density servo systems.

Report Scope

This report is a detailed and comprehensive analysis for global Friction Materials for Servo Brakes 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 Friction Materials for Servo Brakes market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Friction Materials for Servo Brakes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Friction Materials for Servo Brakes market size and forecasts, by Type and by

Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Friction Materials for Servo Brakes market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Friction Materials for Servo Brakes

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 Friction Materials for Servo Brakes 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 Miba Friction Group (AT), Carlisle Brake & Friction (US), GMP Friction Products (US), Tokai Carbon (JP), Scan-Pac Manufacturing, Inc. (US), Midwest Brake (US), Protec Friction (US), Trimat (GB), Huangshi Saite Friction Materials (CN), etc.

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

Friction Materials for Servo Brakes market is split by Type and by Application. For the period 2021-2032, 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 Segmentation

Market segment by Type

Resin-bonded Organic

Semi-metallic

Sintered Metallic

Ceramic and Carbon Composite

Market segment by Manufacturing Process

Molded Type

Woven Type

Sintered Type

Market segment by Coefficient of Friction

?0.15

>0.15–0.25

>0.25–0.35

>0.35–0.45

>0.45–0.55

>0.55

Market segment by Application

CNC Machine Tools

Robot

Material Handling

Elevator

Medical

Others

Major players covered

Miba Friction Group (AT)

Carlisle Brake & Friction (US)

GMP Friction Products (US)

Tokai Carbon (JP)

Scan-Pac Manufacturing, Inc. (US)

Midwest Brake (US)

Protec Friction (US)

Trimat (GB)

Huangshi Saite Friction Materials (CN)

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)

Chapter Outline

Chapter 1, to describe Friction Materials for Servo Brakes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Friction Materials for Servo Brakes, with price, sales quantity, revenue, and global market share of Friction Materials for Servo Brakes from 2021 to 2026.

Chapter 3, the Friction Materials for Servo Brakes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Friction Materials for Servo Brakes 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 Type and by Application, with sales market share and growth rate by Type, 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 Friction Materials for Servo Brakes market forecast, by regions, by Type, 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 Friction Materials for Servo Brakes.

Chapter 14 and 15, to describe Friction Materials for Servo Brakes sales channel, distributors, customers, research findings and conclusion.

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