

Global Friction Materials for Servo Brakes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Friction Materials for Servo Brakes market size is expected to reach \$ 797 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

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 studies the global Friction Materials for Servo Brakes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Friction Materials for Servo Brakes and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Friction Materials for Servo Brakes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Friction Materials for Servo Brakes total production and demand, 2021-2032, (Tons)

Global Friction Materials for Servo Brakes total production value, 2021-2032, (USD Million)

Global Friction Materials for Servo Brakes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Friction Materials for Servo Brakes consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Friction Materials for Servo Brakes domestic production, consumption, key domestic manufacturers and share

Global Friction Materials for Servo Brakes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Friction Materials for Servo Brakes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Friction Materials for Servo Brakes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Friction Materials for Servo Brakes market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Friction Materials for Servo Brakes market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Friction Materials for Servo Brakes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Friction Materials for Servo Brakes Market, Segmentation by Type:

Resin-bonded Organic

Semi-metallic

Sintered Metallic

Ceramic and Carbon Composite

Global Friction Materials for Servo Brakes Market, Segmentation by Manufacturing Process:

Molded Type

Woven Type

Sintered Type

Global Friction Materials for Servo Brakes Market, Segmentation by Coefficient of Friction:

?0.15

>0.15–0.25

>0.25–0.35

>0.35–0.45

>0.45–0.55

>0.55

Global Friction Materials for Servo Brakes Market, Segmentation by Application:

CNC Machine Tools

Robot

Material Handling

Elevator

Medical

Others

Companies Profiled:

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)

Key Questions Answered:

1. How big is the global Friction Materials for Servo Brakes market?
2. What is the demand of the global Friction Materials for Servo Brakes market?
3. What is the year over year growth of the global Friction Materials for Servo Brakes market?
4. What is the production and production value of the global Friction Materials for Servo Brakes market?
5. Who are the key producers in the global Friction Materials for Servo Brakes market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Friction Materials for Servo Brakes Introduction
- 1.2 World Friction Materials for Servo Brakes Supply & Forecast
 - 1.2.1 World Friction Materials for Servo Brakes Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Friction Materials for Servo Brakes Production (2021-2032)
 - 1.2.3 World Friction Materials for Servo Brakes Pricing Trends (2021-2032)
- 1.3 World Friction Materials for Servo Brakes Production by Region (Based on Production Site)
 - 1.3.1 World Friction Materials for Servo Brakes Production Value by Region (2021-2032)
 - 1.3.2 World Friction Materials for Servo Brakes Production by Region (2021-2032)
 - 1.3.3 World Friction Materials for Servo Brakes Average Price by Region (2021-2032)
 - 1.3.4 North America Friction Materials for Servo Brakes Production (2021-2032)
 - 1.3.5 Europe Friction Materials for Servo Brakes Production (2021-2032)
 - 1.3.6 China Friction Materials for Servo Brakes Production (2021-2032)
 - 1.3.7 Japan Friction Materials for Servo Brakes Production (2021-2032)
 - 1.3.8 India Friction Materials for Servo Brakes Production (2021-2032)
 - 1.3.9 Southeast Asia Friction Materials for Servo Brakes Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Friction Materials for Servo Brakes Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Friction Materials for Servo Brakes Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Friction Materials for Servo Brakes Demand (2021-2032)
- 2.2 World Friction Materials for Servo Brakes Consumption by Region
 - 2.2.1 World Friction Materials for Servo Brakes Consumption by Region (2021-2026)
 - 2.2.2 World Friction Materials for Servo Brakes Consumption Forecast by Region (2027-2032)
- 2.3 United States Friction Materials for Servo Brakes Consumption (2021-2032)
- 2.4 China Friction Materials for Servo Brakes Consumption (2021-2032)
- 2.5 Europe Friction Materials for Servo Brakes Consumption (2021-2032)
- 2.6 Japan Friction Materials for Servo Brakes Consumption (2021-2032)
- 2.7 South Korea Friction Materials for Servo Brakes Consumption (2021-2032)

2.8 ASEAN Friction Materials for Servo Brakes Consumption (2021-2032)

2.9 India Friction Materials for Servo Brakes Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Friction Materials for Servo Brakes Production Value by Manufacturer (2021-2026)

3.2 World Friction Materials for Servo Brakes Production by Manufacturer (2021-2026)

3.3 World Friction Materials for Servo Brakes Average Price by Manufacturer (2021-2026)

3.4 Friction Materials for Servo Brakes Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Friction Materials for Servo Brakes Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Friction Materials for Servo Brakes in 2025

3.5.3 Global Concentration Ratios (CR8) for Friction Materials for Servo Brakes in 2025

3.6 Friction Materials for Servo Brakes Market: Overall Company Footprint Analysis

3.6.1 Friction Materials for Servo Brakes Market: Region Footprint

3.6.2 Friction Materials for Servo Brakes Market: Company Product Type Footprint

3.6.3 Friction Materials for Servo Brakes Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Friction Materials for Servo Brakes Production Value Comparison

4.1.1 United States VS China: Friction Materials for Servo Brakes Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Friction Materials for Servo Brakes Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Friction Materials for Servo Brakes Production Comparison

4.2.1 United States VS China: Friction Materials for Servo Brakes Production

Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Friction Materials for Servo Brakes Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Friction Materials for Servo Brakes Consumption Comparison

4.3.1 United States VS China: Friction Materials for Servo Brakes Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Friction Materials for Servo Brakes Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Friction Materials for Servo Brakes Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Friction Materials for Servo Brakes Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Friction Materials for Servo Brakes Production Value (2021-2026)

4.4.3 United States Based Manufacturers Friction Materials for Servo Brakes Production (2021-2026)

4.5 China Based Friction Materials for Servo Brakes Manufacturers and Market Share

4.5.1 China Based Friction Materials for Servo Brakes Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Friction Materials for Servo Brakes Production Value (2021-2026)

4.5.3 China Based Manufacturers Friction Materials for Servo Brakes Production (2021-2026)

4.6 Rest of World Based Friction Materials for Servo Brakes Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Friction Materials for Servo Brakes Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Friction Materials for Servo Brakes Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Friction Materials for Servo Brakes Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Friction Materials for Servo Brakes Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Resin-bonded Organic

5.2.2 Semi-metallic

5.2.3 Sintered Metallic

5.2.4 Ceramic and Carbon Composite

5.3 Market Segment by Type

5.3.1 World Friction Materials for Servo Brakes Production by Type (2021-2032)

5.3.2 World Friction Materials for Servo Brakes Production Value by Type (2021-2032)

5.3.3 World Friction Materials for Servo Brakes Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MANUFACTURING PROCESS

6.1 World Friction Materials for Servo Brakes Market Size Overview by Manufacturing Process: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Manufacturing Process

6.2.1 Molded Type

6.2.2 Woven Type

6.2.3 Sintered Type

6.3 Market Segment by Manufacturing Process

6.3.1 World Friction Materials for Servo Brakes Production by Manufacturing Process (2021-2032)

6.3.2 World Friction Materials for Servo Brakes Production Value by Manufacturing Process (2021-2032)

6.3.3 World Friction Materials for Servo Brakes Average Price by Manufacturing Process (2021-2032)

7 MARKET ANALYSIS BY COEFFICIENT OF FRICTION

7.1 World Friction Materials for Servo Brakes Market Size Overview by Coefficient of Friction: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Coefficient of Friction

7.2.1 ≤ 0.15

7.2.2 $>0.15-0.25$

7.2.3 $>0.25-0.35$

7.2.4 $>0.35-0.45$

7.2.5 $>0.45-0.55$

7.2.6 >0.55

7.3 Market Segment by Coefficient of Friction

7.3.1 World Friction Materials for Servo Brakes Production by Coefficient of Friction (2021-2032)

7.3.2 World Friction Materials for Servo Brakes Production Value by Coefficient of

Friction (2021-2032)

7.3.3 World Friction Materials for Servo Brakes Average Price by Coefficient of Friction (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Friction Materials for Servo Brakes Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 CNC Machine Tools

8.2.2 Robot

8.2.3 Material Handling

8.2.4 Elevator

8.2.5 Medical

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World Friction Materials for Servo Brakes Production by Application (2021-2032)

8.3.2 World Friction Materials for Servo Brakes Production Value by Application (2021-2032)

8.3.3 World Friction Materials for Servo Brakes Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Miba Friction Group (AT)

9.1.1 Miba Friction Group (AT) Details

9.1.2 Miba Friction Group (AT) Major Business

9.1.3 Miba Friction Group (AT) Friction Materials for Servo Brakes Product and Services

9.1.4 Miba Friction Group (AT) Friction Materials for Servo Brakes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Miba Friction Group (AT) Recent Developments/Updates

9.1.6 Miba Friction Group (AT) Competitive Strengths & Weaknesses

9.2 Carlisle Brake & Friction (US)

9.2.1 Carlisle Brake & Friction (US) Details

9.2.2 Carlisle Brake & Friction (US) Major Business

9.2.3 Carlisle Brake & Friction (US) Friction Materials for Servo Brakes Product and Services

9.2.4 Carlisle Brake & Friction (US) Friction Materials for Servo Brakes Production,

Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Carlisle Brake & Friction (US) Recent Developments/Updates

9.2.6 Carlisle Brake & Friction (US) Competitive Strengths & Weaknesses

9.3 GMP Friction Products (US)

9.3.1 GMP Friction Products (US) Details

9.3.2 GMP Friction Products (US) Major Business

9.3.3 GMP Friction Products (US) Friction Materials for Servo Brakes Product and Services

9.3.4 GMP Friction Products (US) Friction Materials for Servo Brakes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 GMP Friction Products (US) Recent Developments/Updates

9.3.6 GMP Friction Products (US) Competitive Strengths & Weaknesses

9.4 Tokai Carbon (JP)

9.4.1 Tokai Carbon (JP) Details

9.4.2 Tokai Carbon (JP) Major Business

9.4.3 Tokai Carbon (JP) Friction Materials for Servo Brakes Product and Services

9.4.4 Tokai Carbon (JP) Friction Materials for Servo Brakes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Tokai Carbon (JP) Recent Developments/Updates

9.4.6 Tokai Carbon (JP) Competitive Strengths & Weaknesses

9.5 Scan-Pac Manufacturing, Inc. (US)

9.5.1 Scan-Pac Manufacturing, Inc. (US) Details

9.5.2 Scan-Pac Manufacturing, Inc. (US) Major Business

9.5.3 Scan-Pac Manufacturing, Inc. (US) Friction Materials for Servo Brakes Product and Services

9.5.4 Scan-Pac Manufacturing, Inc. (US) Friction Materials for Servo Brakes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Scan-Pac Manufacturing, Inc. (US) Recent Developments/Updates

9.5.6 Scan-Pac Manufacturing, Inc. (US) Competitive Strengths & Weaknesses

9.6 Midwest Brake (US)

9.6.1 Midwest Brake (US) Details

9.6.2 Midwest Brake (US) Major Business

9.6.3 Midwest Brake (US) Friction Materials for Servo Brakes Product and Services

9.6.4 Midwest Brake (US) Friction Materials for Servo Brakes Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Midwest Brake (US) Recent Developments/Updates

9.6.6 Midwest Brake (US) Competitive Strengths & Weaknesses

9.7 Protec Friction (US)

9.7.1 Protec Friction (US) Details

- 9.7.2 Protec Friction (US) Major Business
- 9.7.3 Protec Friction (US) Friction Materials for Servo Brakes Product and Services
- 9.7.4 Protec Friction (US) Friction Materials for Servo Brakes Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Protec Friction (US) Recent Developments/Updates
- 9.7.6 Protec Friction (US) Competitive Strengths & Weaknesses
- 9.8 Trimat (GB)
 - 9.8.1 Trimat (GB) Details
 - 9.8.2 Trimat (GB) Major Business
 - 9.8.3 Trimat (GB) Friction Materials for Servo Brakes Product and Services
 - 9.8.4 Trimat (GB) Friction Materials for Servo Brakes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Trimat (GB) Recent Developments/Updates
 - 9.8.6 Trimat (GB) Competitive Strengths & Weaknesses
- 9.9 Huangshi Saite Friction Materials (CN)
 - 9.9.1 Huangshi Saite Friction Materials (CN) Details
 - 9.9.2 Huangshi Saite Friction Materials (CN) Major Business
 - 9.9.3 Huangshi Saite Friction Materials (CN) Friction Materials for Servo Brakes Product and Services
 - 9.9.4 Huangshi Saite Friction Materials (CN) Friction Materials for Servo Brakes Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Huangshi Saite Friction Materials (CN) Recent Developments/Updates
 - 9.9.6 Huangshi Saite Friction Materials (CN) Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Friction Materials for Servo Brakes Industry Chain
- 10.2 Friction Materials for Servo Brakes Upstream Analysis
 - 10.2.1 Friction Materials for Servo Brakes Core Raw Materials
 - 10.2.2 Main Manufacturers of Friction Materials for Servo Brakes Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Friction Materials for Servo Brakes Production Mode
- 10.6 Friction Materials for Servo Brakes Procurement Model
- 10.7 Friction Materials for Servo Brakes Industry Sales Model and Sales Channels
 - 10.7.1 Friction Materials for Servo Brakes Sales Model
 - 10.7.2 Friction Materials for Servo Brakes Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Friction Materials for Servo Brakes Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Friction Materials for Servo Brakes Production Value by Region (2021-2026) & (USD Million)

Table 3. World Friction Materials for Servo Brakes Production Value by Region (2027-2032) & (USD Million)

Table 4. World Friction Materials for Servo Brakes Production Value Market Share by Region (2021-2026)

Table 5. World Friction Materials for Servo Brakes Production Value Market Share by Region (2027-2032)

Table 6. World Friction Materials for Servo Brakes Production by Region (2021-2026) & (Tons)

Table 7. World Friction Materials for Servo Brakes Production by Region (2027-2032) & (Tons)

Table 8. World Friction Materials for Servo Brakes Production Market Share by Region (2021-2026)

Table 9. World Friction Materials for Servo Brakes Production Market Share by Region (2027-2032)

Table 10. World Friction Materials for Servo Brakes Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Friction Materials for Servo Brakes Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Friction Materials for Servo Brakes Major Market Trends

Table 13. World Friction Materials for Servo Brakes Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Friction Materials for Servo Brakes Consumption by Region (2021-2026) & (Tons)

Table 15. World Friction Materials for Servo Brakes Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Friction Materials for Servo Brakes Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Friction Materials for Servo Brakes Producers in 2025

Table 18. World Friction Materials for Servo Brakes Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Friction Materials for Servo Brakes Producers in 2025

Table 20. World Friction Materials for Servo Brakes Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Friction Materials for Servo Brakes Company Evaluation Quadrant

Table 22. World Friction Materials for Servo Brakes Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Friction Materials for Servo Brakes Production Site of Key Manufacturer

Table 24. Friction Materials for Servo Brakes Market: Company Product Type Footprint

Table 25. Friction Materials for Servo Brakes Market: Company Product Application Footprint

Table 26. Friction Materials for Servo Brakes Competitive Factors

Table 27. Friction Materials for Servo Brakes New Entrant and Capacity Expansion Plans

Table 28. Friction Materials for Servo Brakes Mergers & Acquisitions Activity

Table 29. United States VS China Friction Materials for Servo Brakes Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Friction Materials for Servo Brakes Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Friction Materials for Servo Brakes Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Friction Materials for Servo Brakes Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Friction Materials for Servo Brakes Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Friction Materials for Servo Brakes Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Friction Materials for Servo Brakes Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Friction Materials for Servo Brakes Production Market Share (2021-2026)

Table 37. China Based Friction Materials for Servo Brakes Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Friction Materials for Servo Brakes Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Friction Materials for Servo Brakes Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Friction Materials for Servo Brakes Production,

(2021-2026) & (Tons)

Table 41. China Based Manufacturers Friction Materials for Servo Brakes Production Market Share (2021-2026)

Table 42. Rest of World Based Friction Materials for Servo Brakes Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Friction Materials for Servo Brakes Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Friction Materials for Servo Brakes Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Friction Materials for Servo Brakes Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Friction Materials for Servo Brakes Production Market Share (2021-2026)

Table 47. World Friction Materials for Servo Brakes Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Friction Materials for Servo Brakes Production by Type (2021-2026) & (Tons)

Table 49. World Friction Materials for Servo Brakes Production by Type (2027-2032) & (Tons)

Table 50. World Friction Materials for Servo Brakes Production Value by Type (2021-2026) & (USD Million)

Table 51. World Friction Materials for Servo Brakes Production Value by Type (2027-2032) & (USD Million)

Table 52. World Friction Materials for Servo Brakes Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Friction Materials for Servo Brakes Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Friction Materials for Servo Brakes Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Table 55. World Friction Materials for Servo Brakes Production by Manufacturing Process (2021-2026) & (Tons)

Table 56. World Friction Materials for Servo Brakes Production by Manufacturing Process (2027-2032) & (Tons)

Table 57. World Friction Materials for Servo Brakes Production Value by Manufacturing Process (2021-2026) & (USD Million)

Table 58. World Friction Materials for Servo Brakes Production Value by Manufacturing Process (2027-2032) & (USD Million)

Table 59. World Friction Materials for Servo Brakes Average Price by Manufacturing Process (2021-2026) & (US\$/Ton)

Table 60. World Friction Materials for Servo Brakes Average Price by Manufacturing Process (2027-2032) & (US\$/Ton)

Table 61. World Friction Materials for Servo Brakes Production Value by Coefficient of Friction, (USD Million), 2021 & 2025 & 2032

Table 62. World Friction Materials for Servo Brakes Production by Coefficient of Friction (2021-2026) & (Tons)

Table 63. World Friction Materials for Servo Brakes Production by Coefficient of Friction (2027-2032) & (Tons)

Table 64. World Friction Materials for Servo Brakes Production Value by Coefficient of Friction (2021-2026) & (USD Million)

Table 65. World Friction Materials for Servo Brakes Production Value by Coefficient of Friction (2027-2032) & (USD Million)

Table 66. World Friction Materials for Servo Brakes Average Price by Coefficient of Friction (2021-2026) & (US\$/Ton)

Table 67. World Friction Materials for Servo Brakes Average Price by Coefficient of Friction (2027-2032) & (US\$/Ton)

Table 68. World Friction Materials for Servo Brakes Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Friction Materials for Servo Brakes Production by Application (2021-2026) & (Tons)

Table 70. World Friction Materials for Servo Brakes Production by Application (2027-2032) & (Tons)

Table 71. World Friction Materials for Servo Brakes Production Value by Application (2021-2026) & (USD Million)

Table 72. World Friction Materials for Servo Brakes Production Value by Application (2027-2032) & (USD Million)

Table 73. World Friction Materials for Servo Brakes Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Friction Materials for Servo Brakes Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Miba Friction Group (AT) Basic Information, Manufacturing Base and Competitors

Table 76. Miba Friction Group (AT) Major Business

Table 77. Miba Friction Group (AT) Friction Materials for Servo Brakes Product and Services

Table 78. Miba Friction Group (AT) Friction Materials for Servo Brakes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Miba Friction Group (AT) Recent Developments/Updates

Table 80. Miba Friction Group (AT) Competitive Strengths & Weaknesses

Table 81. Carlisle Brake & Friction (US) Basic Information, Manufacturing Base and Competitors

Table 82. Carlisle Brake & Friction (US) Major Business

Table 83. Carlisle Brake & Friction (US) Friction Materials for Servo Brakes Product and Services

Table 84. Carlisle Brake & Friction (US) Friction Materials for Servo Brakes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Carlisle Brake & Friction (US) Recent Developments/Updates

Table 86. Carlisle Brake & Friction (US) Competitive Strengths & Weaknesses

Table 87. GMP Friction Products (US) Basic Information, Manufacturing Base and Competitors

Table 88. GMP Friction Products (US) Major Business

Table 89. GMP Friction Products (US) Friction Materials for Servo Brakes Product and Services

Table 90. GMP Friction Products (US) Friction Materials for Servo Brakes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. GMP Friction Products (US) Recent Developments/Updates

Table 92. GMP Friction Products (US) Competitive Strengths & Weaknesses

Table 93. Tokai Carbon (JP) Basic Information, Manufacturing Base and Competitors

Table 94. Tokai Carbon (JP) Major Business

Table 95. Tokai Carbon (JP) Friction Materials for Servo Brakes Product and Services

Table 96. Tokai Carbon (JP) Friction Materials for Servo Brakes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Tokai Carbon (JP) Recent Developments/Updates

Table 98. Tokai Carbon (JP) Competitive Strengths & Weaknesses

Table 99. Scan-Pac Manufacturing, Inc. (US) Basic Information, Manufacturing Base and Competitors

Table 100. Scan-Pac Manufacturing, Inc. (US) Major Business

Table 101. Scan-Pac Manufacturing, Inc. (US) Friction Materials for Servo Brakes Product and Services

Table 102. Scan-Pac Manufacturing, Inc. (US) Friction Materials for Servo Brakes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Scan-Pac Manufacturing, Inc. (US) Recent Developments/Updates

Table 104. Scan-Pac Manufacturing, Inc. (US) Competitive Strengths & Weaknesses

Table 105. Midwest Brake (US) Basic Information, Manufacturing Base and Competitors

Table 106. Midwest Brake (US) Major Business

Table 107. Midwest Brake (US) Friction Materials for Servo Brakes Product and Services

Table 108. Midwest Brake (US) Friction Materials for Servo Brakes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Midwest Brake (US) Recent Developments/Updates

Table 110. Midwest Brake (US) Competitive Strengths & Weaknesses

Table 111. Protec Friction (US) Basic Information, Manufacturing Base and Competitors

Table 112. Protec Friction (US) Major Business

Table 113. Protec Friction (US) Friction Materials for Servo Brakes Product and Services

Table 114. Protec Friction (US) Friction Materials for Servo Brakes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Protec Friction (US) Recent Developments/Updates

Table 116. Protec Friction (US) Competitive Strengths & Weaknesses

Table 117. Trimat (GB) Basic Information, Manufacturing Base and Competitors

Table 118. Trimat (GB) Major Business

Table 119. Trimat (GB) Friction Materials for Servo Brakes Product and Services

Table 120. Trimat (GB) Friction Materials for Servo Brakes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Trimat (GB) Recent Developments/Updates

Table 122. Trimat (GB) Competitive Strengths & Weaknesses

Table 123. Huangshi Saite Friction Materials (CN) Basic Information, Manufacturing Base and Competitors

Table 124. Huangshi Saite Friction Materials (CN) Major Business

Table 125. Huangshi Saite Friction Materials (CN) Friction Materials for Servo Brakes Product and Services

Table 126. Huangshi Saite Friction Materials (CN) Friction Materials for Servo Brakes Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Huangshi Saite Friction Materials (CN) Recent Developments/Updates

Table 128. Huangshi Saite Friction Materials (CN) Competitive Strengths & Weaknesses

Table 129. Global Key Players of Friction Materials for Servo Brakes Upstream (Raw Materials)

Table 130. Global Friction Materials for Servo Brakes Typical Customers

Table 131. Friction Materials for Servo Brakes Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Friction Materials for Servo Brakes Picture

Figure 2. World Friction Materials for Servo Brakes Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Friction Materials for Servo Brakes Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Friction Materials for Servo Brakes Production (2021-2032) & (Tons)

Figure 5. World Friction Materials for Servo Brakes Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Friction Materials for Servo Brakes Production Value Market Share by Region (2021-2032)

Figure 7. World Friction Materials for Servo Brakes Production Market Share by Region (2021-2032)

Figure 8. North America Friction Materials for Servo Brakes Production (2021-2032) & (Tons)

Figure 9. Europe Friction Materials for Servo Brakes Production (2021-2032) & (Tons)

Figure 10. China Friction Materials for Servo Brakes Production (2021-2032) & (Tons)

Figure 11. Japan Friction Materials for Servo Brakes Production (2021-2032) & (Tons)

Figure 12. India Friction Materials for Servo Brakes Production (2021-2032) & (Tons)

Figure 13. Southeast Asia Friction Materials for Servo Brakes Production (2021-2032) & (Tons)

Figure 14. Friction Materials for Servo Brakes Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Friction Materials for Servo Brakes Consumption (2021-2032) & (Tons)

Figure 17. World Friction Materials for Servo Brakes Consumption Market Share by Region (2021-2032)

Figure 18. United States Friction Materials for Servo Brakes Consumption (2021-2032) & (Tons)

Figure 19. China Friction Materials for Servo Brakes Consumption (2021-2032) & (Tons)

Figure 20. Europe Friction Materials for Servo Brakes Consumption (2021-2032) & (Tons)

Figure 21. Japan Friction Materials for Servo Brakes Consumption (2021-2032) & (Tons)

Figure 22. South Korea Friction Materials for Servo Brakes Consumption (2021-2032) &

(Tons)

Figure 23. ASEAN Friction Materials for Servo Brakes Consumption (2021-2032) & (Tons)

Figure 24. India Friction Materials for Servo Brakes Consumption (2021-2032) & (Tons)

Figure 25. Producer Shipments of Friction Materials for Servo Brakes by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Friction Materials for Servo Brakes Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Friction Materials for Servo Brakes Markets in 2025

Figure 28. United States VS China: Friction Materials for Servo Brakes Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Friction Materials for Servo Brakes Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Friction Materials for Servo Brakes Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Friction Materials for Servo Brakes Production Market Share 2025

Figure 32. China Based Manufacturers Friction Materials for Servo Brakes Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Friction Materials for Servo Brakes Production Market Share 2025

Figure 34. World Friction Materials for Servo Brakes Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Friction Materials for Servo Brakes Production Value Market Share by Type in 2025

Figure 36. Resin-bonded Organic

Figure 37. Semi-metallic

Figure 38. Sintered Metallic

Figure 39. Ceramic and Carbon Composite

Figure 40. World Friction Materials for Servo Brakes Production Market Share by Type (2021-2032)

Figure 41. World Friction Materials for Servo Brakes Production Value Market Share by Type (2021-2032)

Figure 42. World Friction Materials for Servo Brakes Average Price by Type (2021-2032) & (US\$/Ton)

Figure 43. World Friction Materials for Servo Brakes Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Figure 44. World Friction Materials for Servo Brakes Production Value Market Share by

Manufacturing Process in 2025

Figure 45. Molded Type

Figure 46. Woven Type

Figure 47. Sintered Type

Figure 48. World Friction Materials for Servo Brakes Production Market Share by Manufacturing Process (2021-2032)

Figure 49. World Friction Materials for Servo Brakes Production Value Market Share by Manufacturing Process (2021-2032)

Figure 50. World Friction Materials for Servo Brakes Average Price by Manufacturing Process (2021-2032) & (US\$/Ton)

Figure 51. World Friction Materials for Servo Brakes Production Value by Coefficient of Friction, (USD Million), 2021 & 2025 & 2032

Figure 52. World Friction Materials for Servo Brakes Production Value Market Share by Coefficient of Friction in 2025

Figure 53. <0.15

Figure 54. $>0.15-0.25$

Figure 55. $>0.25-0.35$

Figure 56. $>0.35-0.45$

Figure 57. $>0.45-0.55$

Figure 58. >0.55

Figure 59. World Friction Materials for Servo Brakes Production Market Share by Coefficient of Friction (2021-2032)

Figure 60. World Friction Materials for Servo Brakes Production Value Market Share by Coefficient of Friction (2021-2032)

Figure 61. World Friction Materials for Servo Brakes Average Price by Coefficient of Friction (2021-2032) & (US\$/Ton)

Figure 62. World Friction Materials for Servo Brakes Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 63. World Friction Materials for Servo Brakes Production Value Market Share by Application in 2025

Figure 64. CNC Machine Tools

Figure 65. Robot

Figure 66. Material Handling

Figure 67. Elevator

Figure 68. Medical

Figure 69. Others

Figure 70. World Friction Materials for Servo Brakes Production Market Share by Application (2021-2032)

Figure 71. World Friction Materials for Servo Brakes Production Value Market Share by

Application (2021-2032)

Figure 72. World Friction Materials for Servo Brakes Average Price by Application (2021-2032) & (US\$/Ton)

Figure 73. Friction Materials for Servo Brakes Industry Chain

Figure 74. Friction Materials for Servo Brakes Procurement Model

Figure 75. Friction Materials for Servo Brakes Sales Model

Figure 76. Friction Materials for Servo Brakes Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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