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Global Composite Dry Sliding Bearing Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Composite Dry Sliding Bearing market size is expected to reach $ 874 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

A Composite Dry Sliding Bearing is a type of sliding bearing constructed from a composite structure consisting of a metallic load-bearing substrate, an intermediate anti-friction layer, and a self-lubricating sliding layer, enabling operation without continuous oil or grease lubrication. Its typical structure uses steel, bronze, or other metals as the load-bearing backing, with a porous bronze layer sintered onto the surface or another bonding layer applied, followed by a low-friction sliding layer made of PTFE, modified polymers, or materials containing solid lubricants. The intermediate layer primarily enhances the bonding between the sliding layer and the metallic substrate while also contributing to load-carrying capacity and heat dissipation. The self-lubricating surface layer relies on low-friction materials such as PTFE to reduce friction and wear, enabling long-term self-lubricating operation under dry sliding conditions.

Key Findings

Composite Dry Sliding Bearings are centered on metallic backing combined with a self-lubricating sliding layer

Bushings, thrust washers, sliding plates represent the principal commercial product forms

Maintenance-free operation, low friction, and thin-wall construction are core

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engineering advantages

Material formulation, interlayer bonding, and high-volume manufacturing consistency are key technical capabilities

The market combines standardized industrial components with higher-performance customized products

Market Trends

Composite Dry Sliding Bearings are continuing to evolve toward lower friction, higher load capacity, longer service life, and thinner-wall structures. Material development is increasingly focused on environmental compliance, corrosion resistance, wider temperature capability, and stable long-term tribological performance. Customer evaluation is also shifting from initial purchasing cost toward lifecycle reliability and maintenance economics. As a result, sliding-layer formulation, composite-interface stability, material uniformity, and long-term durability are becoming increasingly important areas of product development.

Market Dynamics

Drivers

The continuing need to reduce lubrication points, lower maintenance frequency, and improve mechanical reliability is a major driver of demand for Composite Dry Sliding Bearings. Compared with conventional sliding solutions that require continuous oil supply or periodic grease replenishment, these bearings can simplify lubrication systems and mechanical architecture while reducing operating risks associated with insufficient lubrication, contamination, or delayed maintenance. Their metallic backing and thin-wall construction also provide useful load capacity within limited installation space, supporting widespread use in compact motion mechanisms.

Restraints

Composite Dry Sliding Bearings are supported by relatively mature standardized manufacturing processes, resulting in significant price competition for conventional

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specifications. Changes in the costs of steel, copper-alloy powders, PTFE, and functional fillers can affect manufacturing economics, while high-volume industrial customers typically impose demanding requirements on price, delivery, and quality consistency. Dry-running performance is also highly dependent on load, speed, temperature, shaft surface condition, and installation accuracy, requiring careful matching of bearing materials and structures to specific operating conditions.

Opportunities

The replacement of conventionally lubricated bushings with maintenance-free composite solutions continues to provide a meaningful source of market opportunity. Products designed for higher loads, corrosion resistance, lower noise, thinner walls, and demanding environments offer greater technical value. As machinery continues to move toward compact design, electrification, and simplified maintenance, the development of dedicated sliding-layer materials and composite structures for specific load conditions, motion patterns, and operating environments will create further opportunities for higher-performance products.

Challenges

The industry continues to face both price competition in standardized products and demanding qualification requirements in higher-performance applications. Mature specifications are vulnerable to commoditization, while automotive, rail transit, aerospace, and other reliability-sensitive markets generally require extended material testing, durability validation, and customer qualification. Sliding-layer materials must also balance friction performance, wear life, environmental compliance, manufacturing cost, and process stability. The transition from new material development to large-scale commercialization therefore requires sustained investment in engineering validation and quality control.

Industry Chain Analysis

The upstream supply chain for Composite Dry Sliding Bearing mainly consists of low-carbon steel, bronze and copper-alloy powders, PTFE and other engineering polymers, solid-lubricant fillers, and surface-treatment materials. Midstream manufacturing typically includes metal-strip preparation, powder sintering, polymer compounding, rolling, stamping, forming, sizing, and finishing. Sliding-layer formulation, porous

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intermediate-layer architecture, interfacial bonding strength, and material thickness uniformity directly influence friction, wear life, load capacity, and dimensional stability.

Value creation in the industry extends beyond raw-material conversion and includes tribological material design, continuous composite processing, automated forming, precision dimensional control, and customer application validation. Standardized small bushings depend more heavily on manufacturing efficiency, material utilization, and production scale, while products designed for high loads, special temperatures, corrosive environments, or demanding reliability requirements rely more strongly on proprietary material formulations, engineering databases, and customized development capabilities.

Segment Insights

By product form, bushings represent the most fundamental and widely used commercial configuration within Composite Dry Sliding Bearing products, serving a broad range of radial sliding and oscillating support requirements. Thrust washers are mainly used for axial loads, while sliding plates and strips serve planar sliding, guiding, and subsequent customized fabrication. By backing material, steel-backed products offer strong mechanical performance, mature processing, and effective cost control, making them the mainstream structure, while bronze-backed products provide advantages in corrosion resistance and demanding environmental conditions.

Future product differentiation is expected to focus increasingly on sliding-layer materials and composite-structure performance rather than simple dimensional expansion. Improvements in polymer systems, solid-lubricant formulations, and intermediate-layer structures can extend load capacity, reduce friction and wear, and broaden temperature and environmental capability. Thin-wall design also carries significant commercial value by reducing installation space and component weight while retaining the mechanical support provided by a metallic backing.

Downstream Market Opportunities

Although operating requirements differ across downstream industries, the common objective is to reduce lubrication and maintenance while maintaining reliable load-carrying and motion performance. Automotive applications emphasize low friction, low noise, high-volume consistency, and compact installation; construction and agricultural machinery place greater emphasis on load capacity, impact resistance, and operation in

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demanding environments; rail transit and aerospace applications prioritize reliability, service life, and material stability. The increasing use of electric actuation, automated adjustment, and compact motion systems is also creating further opportunities for miniaturized, thin-wall, and higher-performance composite sliding solutions.

Regional Insights

Regional demand for Composite Dry Sliding Bearing is closely related to the distribution of automotive, construction machinery, agricultural equipment, and general industrial manufacturing. Asia-Pacific benefits from extensive manufacturing supply chains and large-scale component production, creating advantages in production scale and cost efficiency. Europe places greater emphasis on advanced materials, environmental compliance, service life, and high-end equipment applications, while North America maintains a stable demand base in automotive, construction equipment, and industrial machinery. Competitive priorities therefore differ by region across manufacturing scale, material technology, customer qualification, and localized supply capabilities.

Competitive Landscape Analysis

The Composite Dry Sliding Bearing market is characterized by competition across both materials engineering and large-scale manufacturing capabilities. Standardized products compete primarily on cost, delivery performance, specification coverage, and high-volume quality consistency, while higher-performance products rely more strongly on sliding-layer formulation, composite manufacturing processes, tribological validation, and customer co-development. Because these bearings are typically qualified as long-term industrial foundation components within downstream supply chains, customers place strong emphasis on supply continuity and performance consistency after qualification. Materials development, automated production, quality control, and long-term customer support therefore represent important sources of sustainable competitive advantage.

Report Scope

This report studies the global Composite Dry Sliding Bearing production, demand, key manufacturers, and key regions.

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This report is a detailed and comprehensive analysis of the world market for Composite Dry Sliding Bearing 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 Composite Dry Sliding Bearing that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Composite Dry Sliding Bearing total production and demand, 2021-2032, (K Units)

Global Composite Dry Sliding Bearing total production value, 2021-2032, (USD Million)

Global Composite Dry Sliding Bearing production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Composite Dry Sliding Bearing consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Composite Dry Sliding Bearing domestic production, consumption, key domestic manufacturers and share

Global Composite Dry Sliding Bearing production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Composite Dry Sliding Bearing production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Composite Dry Sliding Bearing production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Composite Dry Sliding Bearing 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 GGB, SKF, Schaeffler, Daido Metal,

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KS Gleitlager, OILES, Saint-Gobain, Technymon, Zhejiang Changsheng Sliding Bearings, Shuangfei Oil-Free Bearing Group, 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 Composite Dry Sliding Bearing market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) 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 Composite Dry Sliding Bearing Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

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Global Composite Dry Sliding Bearing Market, Segmentation by Type:

Bushing Type

Thrust Washer Type

Sliding Plate Type

Other

Global Composite Dry Sliding Bearing Market, Segmentation by Backing Material:

Steel-backed

Bronze-backed

Other

Global Composite Dry Sliding Bearing Market, Segmentation by Application:

Automotive

Construction Machinery

Agricultural Machinery

Rail Transit

Aerospace

Other

Companies Profiled:

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GGB

SKF

Schaeffler

Daido Metal

KS Gleitlager

OILES

Saint-Gobain

Technymon

Zhejiang Changsheng Sliding Bearings

Shuangfei Oil-Free Bearing Group

Zhejiang Zhongda Precision Parts

Mingyang Technology (Suzhou)

Key Questions Answered

1. How big is the global Composite Dry Sliding Bearing market?
2. What is the demand of the global Composite Dry Sliding Bearing market?
3. What is the year over year growth of the global Composite Dry Sliding Bearing market?
4. What is the total value of the global Composite Dry Sliding Bearing market?
5. Who are the Major Players in the global Composite Dry Sliding Bearing market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Composite Dry Sliding Bearing Introduction
1.2 World Composite Dry Sliding Bearing Supply & Forecast
  1.2.1 World Composite Dry Sliding Bearing Production Value (2021 & 2025 & 2032)
  1.2.2 World Composite Dry Sliding Bearing Production (2021-2032)
  1.2.3 World Composite Dry Sliding Bearing Pricing Trends (2021-2032)
1.3 World Composite Dry Sliding Bearing Production by Region (Based on Production Site)
  1.3.1 World Composite Dry Sliding Bearing Production Value by Region (2021-2032)
  1.3.2 World Composite Dry Sliding Bearing Production by Region (2021-2032)
  1.3.3 World Composite Dry Sliding Bearing Average Price by Region (2021-2032)
  1.3.4 North America Composite Dry Sliding Bearing Production (2021-2032)
  1.3.5 Europe Composite Dry Sliding Bearing Production (2021-2032)
  1.3.6 China Composite Dry Sliding Bearing Production (2021-2032)
  1.3.7 Japan Composite Dry Sliding Bearing Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Composite Dry Sliding Bearing Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Composite Dry Sliding Bearing Major Market Trends

2 DEMAND SUMMARY

2.1 World Composite Dry Sliding Bearing Demand (2021-2032)
2.2 World Composite Dry Sliding Bearing Consumption by Region
  2.2.1 World Composite Dry Sliding Bearing Consumption by Region (2021-2026)
  2.2.2 World Composite Dry Sliding Bearing Consumption Forecast by Region (2027-2032)
2.3 United States Composite Dry Sliding Bearing Consumption (2021-2032)
2.4 China Composite Dry Sliding Bearing Consumption (2021-2032)
2.5 Europe Composite Dry Sliding Bearing Consumption (2021-2032)
2.6 Japan Composite Dry Sliding Bearing Consumption (2021-2032)
2.7 South Korea Composite Dry Sliding Bearing Consumption (2021-2032)
2.8 ASEAN Composite Dry Sliding Bearing Consumption (2021-2032)
2.9 India Composite Dry Sliding Bearing Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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3.1 World Composite Dry Sliding Bearing Production Value by Manufacturer (2021-2026)
3.2 World Composite Dry Sliding Bearing Production by Manufacturer (2021-2026)
3.3 World Composite Dry Sliding Bearing Average Price by Manufacturer (2021-2026)
3.4 Composite Dry Sliding Bearing Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global Composite Dry Sliding Bearing Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for Composite Dry Sliding Bearing in 2025
  3.5.3 Global Concentration Ratios (CR8) for Composite Dry Sliding Bearing in 2025
3.6 Composite Dry Sliding Bearing Market: Overall Company Footprint Analysis
  3.6.1 Composite Dry Sliding Bearing Market: Region Footprint
  3.6.2 Composite Dry Sliding Bearing Market: Company Product Type Footprint
  3.6.3 Composite Dry Sliding Bearing 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: Composite Dry Sliding Bearing Production Value Comparison
  4.1.1 United States VS China: Composite Dry Sliding Bearing Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: Composite Dry Sliding Bearing Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Composite Dry Sliding Bearing Production Comparison
  4.2.1 United States VS China: Composite Dry Sliding Bearing Production Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: Composite Dry Sliding Bearing Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Composite Dry Sliding Bearing Consumption Comparison
  4.3.1 United States VS China: Composite Dry Sliding Bearing Consumption Comparison (2021 & 2025 & 2032)
  4.3.2 United States VS China: Composite Dry Sliding Bearing Consumption Market Share Comparison (2021 & 2025 & 2032)

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4.4 United States Based Composite Dry Sliding Bearing Manufacturers and Market Share, 2021-2026
4.4.1 United States Based Composite Dry Sliding Bearing Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers Composite Dry Sliding Bearing Production Value (2021-2026)
4.4.3 United States Based Manufacturers Composite Dry Sliding Bearing Production (2021-2026)
4.5 China Based Composite Dry Sliding Bearing Manufacturers and Market Share
4.5.1 China Based Composite Dry Sliding Bearing Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Composite Dry Sliding Bearing Production Value (2021-2026)
4.5.3 China Based Manufacturers Composite Dry Sliding Bearing Production (2021-2026)
4.6 Rest of World Based Composite Dry Sliding Bearing Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Composite Dry Sliding Bearing Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Composite Dry Sliding Bearing Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Composite Dry Sliding Bearing Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Composite Dry Sliding Bearing Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Bushing Type
5.2.2 Thrust Washer Type
5.2.3 Sliding Plate Type
5.2.4 Other
5.3 Market Segment by Type
5.3.1 World Composite Dry Sliding Bearing Production by Type (2021-2032)
5.3.2 World Composite Dry Sliding Bearing Production Value by Type (2021-2032)
5.3.3 World Composite Dry Sliding Bearing Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY BACKING MATERIAL

+357 96 030922
info@marketpublishers.com

6.1 World Composite Dry Sliding Bearing Market Size Overview by Backing Material: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Backing Material
6.2.1 Steel-backed
6.2.2 Bronze-backed
6.2.3 Other
6.3 Market Segment by Backing Material
6.3.1 World Composite Dry Sliding Bearing Production by Backing Material (2021-2032)
6.3.2 World Composite Dry Sliding Bearing Production Value by Backing Material (2021-2032)
6.3.3 World Composite Dry Sliding Bearing Average Price by Backing Material (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Composite Dry Sliding Bearing Market Size Overview by Application: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Application
7.2.1 Automotive
7.2.2 Construction Machinery
7.2.3 Agricultural Machinery
7.2.4 Rail Transit
7.2.5 Aerospace
7.2.6 Other
7.3 Market Segment by Application
7.3.1 World Composite Dry Sliding Bearing Production by Application (2021-2032)
7.3.2 World Composite Dry Sliding Bearing Production Value by Application (2021-2032)
7.3.3 World Composite Dry Sliding Bearing Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 GGB
8.1.1 GGB Details
8.1.2 GGB Major Business
8.1.3 GGB Composite Dry Sliding Bearing Product and Services
8.1.4 GGB Composite Dry Sliding Bearing Production, Price, Value, Gross Margin and

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Market Share (2021-2026)
8.1.5 GGB Recent Developments/Updates
8.1.6 GGB Competitive Strengths & Weaknesses
8.2 SKF
8.2.1 SKF Details
8.2.2 SKF Major Business
8.2.3 SKF Composite Dry Sliding Bearing Product and Services
8.2.4 SKF Composite Dry Sliding Bearing Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.2.5 SKF Recent Developments/Updates
8.2.6 SKF Competitive Strengths & Weaknesses
8.3 Schaeffler
8.3.1 Schaeffler Details
8.3.2 Schaeffler Major Business
8.3.3 Schaeffler Composite Dry Sliding Bearing Product and Services
8.3.4 Schaeffler Composite Dry Sliding Bearing Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.3.5 Schaeffler Recent Developments/Updates
8.3.6 Schaeffler Competitive Strengths & Weaknesses
8.4 Daido Metal
8.4.1 Daido Metal Details
8.4.2 Daido Metal Major Business
8.4.3 Daido Metal Composite Dry Sliding Bearing Product and Services
8.4.4 Daido Metal Composite Dry Sliding Bearing Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.4.5 Daido Metal Recent Developments/Updates
8.4.6 Daido Metal Competitive Strengths & Weaknesses
8.5 KS Gleitlager
8.5.1 KS Gleitlager Details
8.5.2 KS Gleitlager Major Business
8.5.3 KS Gleitlager Composite Dry Sliding Bearing Product and Services
8.5.4 KS Gleitlager Composite Dry Sliding Bearing Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.5.5 KS Gleitlager Recent Developments/Updates
8.5.6 KS Gleitlager Competitive Strengths & Weaknesses
8.6 OILES
8.6.1 OILES Details
8.6.2 OILES Major Business
8.6.3 OILES Composite Dry Sliding Bearing Product and Services

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8.6.4 OILES Composite Dry Sliding Bearing Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.6.5 OILES Recent Developments/Updates
8.6.6 OILES Competitive Strengths & Weaknesses
8.7 Saint-Gobain
8.7.1 Saint-Gobain Details
8.7.2 Saint-Gobain Major Business
8.7.3 Saint-Gobain Composite Dry Sliding Bearing Product and Services
8.7.4 Saint-Gobain Composite Dry Sliding Bearing Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.7.5 Saint-Gobain Recent Developments/Updates
8.7.6 Saint-Gobain Competitive Strengths & Weaknesses
8.8 Technymon
8.8.1 Technymon Details
8.8.2 Technymon Major Business
8.8.3 Technymon Composite Dry Sliding Bearing Product and Services
8.8.4 Technymon Composite Dry Sliding Bearing Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.8.5 Technymon Recent Developments/Updates
8.8.6 Technymon Competitive Strengths & Weaknesses
8.9 Zhejiang Changsheng Sliding Bearings
8.9.1 Zhejiang Changsheng Sliding Bearings Details
8.9.2 Zhejiang Changsheng Sliding Bearings Major Business
8.9.3 Zhejiang Changsheng Sliding Bearings Composite Dry Sliding Bearing Product and Services
8.9.4 Zhejiang Changsheng Sliding Bearings Composite Dry Sliding Bearing Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.9.5 Zhejiang Changsheng Sliding Bearings Recent Developments/Updates
8.9.6 Zhejiang Changsheng Sliding Bearings Competitive Strengths & Weaknesses
8.10 Shuangfei Oil-Free Bearing Group
8.10.1 Shuangfei Oil-Free Bearing Group Details
8.10.2 Shuangfei Oil-Free Bearing Group Major Business
8.10.3 Shuangfei Oil-Free Bearing Group Composite Dry Sliding Bearing Product and Services
8.10.4 Shuangfei Oil-Free Bearing Group Composite Dry Sliding Bearing Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.10.5 Shuangfei Oil-Free Bearing Group Recent Developments/Updates
8.10.6 Shuangfei Oil-Free Bearing Group Competitive Strengths & Weaknesses
8.11 Zhejiang Zhongda Precision Parts

+357 96 030922
info@marketpublishers.com

8.11.1 Zhejiang Zhongda Precision Parts Details
8.11.2 Zhejiang Zhongda Precision Parts Major Business
8.11.3 Zhejiang Zhongda Precision Parts Composite Dry Sliding Bearing Product and Services
8.11.4 Zhejiang Zhongda Precision Parts Composite Dry Sliding Bearing Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.11.5 Zhejiang Zhongda Precision Parts Recent Developments/Updates
8.11.6 Zhejiang Zhongda Precision Parts Competitive Strengths & Weaknesses
8.12 Mingyang Technology (Suzhou)
8.12.1 Mingyang Technology (Suzhou) Details
8.12.2 Mingyang Technology (Suzhou) Major Business
8.12.3 Mingyang Technology (Suzhou) Composite Dry Sliding Bearing Product and Services
8.12.4 Mingyang Technology (Suzhou) Composite Dry Sliding Bearing Production, Price, Value, Gross Margin and Market Share (2021-2026)
8.12.5 Mingyang Technology (Suzhou) Recent Developments/Updates
8.12.6 Mingyang Technology (Suzhou) Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Composite Dry Sliding Bearing Industry Chain
9.2 Composite Dry Sliding Bearing Upstream Analysis
9.2.1 Composite Dry Sliding Bearing Core Raw Materials
9.2.2 Main Manufacturers of Composite Dry Sliding Bearing Core Raw Materials
9.3 Midstream Analysis
9.4 Downstream Analysis
9.5 Composite Dry Sliding Bearing Production Mode
9.6 Composite Dry Sliding Bearing Procurement Model
9.7 Composite Dry Sliding Bearing Industry Sales Model and Sales Channels
9.7.1 Composite Dry Sliding Bearing Sales Model
9.7.2 Composite Dry Sliding Bearing Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology
11.2 Research Process and Data Source
11.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. World Composite Dry Sliding Bearing Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Composite Dry Sliding Bearing Production Value by Region (2021-2026) & (USD Million)
Table 3. World Composite Dry Sliding Bearing Production Value by Region (2027-2032) & (USD Million)
Table 4. World Composite Dry Sliding Bearing Production Value Market Share by Region (2021-2026)
Table 5. World Composite Dry Sliding Bearing Production Value Market Share by Region (2027-2032)
Table 6. World Composite Dry Sliding Bearing Production by Region (2021-2026) & (K Units)
Table 7. World Composite Dry Sliding Bearing Production by Region (2027-2032) & (K Units)
Table 8. World Composite Dry Sliding Bearing Production Market Share by Region (2021-2026)
Table 9. World Composite Dry Sliding Bearing Production Market Share by Region (2027-2032)
Table 10. World Composite Dry Sliding Bearing Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World Composite Dry Sliding Bearing Average Price by Region (2027-2032) & (US$/Unit)
Table 12. Composite Dry Sliding Bearing Major Market Trends
Table 13. World Composite Dry Sliding Bearing Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
Table 14. World Composite Dry Sliding Bearing Consumption by Region (2021-2026) & (K Units)
Table 15. World Composite Dry Sliding Bearing Consumption Forecast by Region (2027-2032) & (K Units)
Table 16. World Composite Dry Sliding Bearing Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Composite Dry Sliding Bearing Producers in 2025
Table 18. World Composite Dry Sliding Bearing Production by Manufacturer (2021-2026) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 19. Production Market Share of Key Composite Dry Sliding Bearing Producers in 2025
Table 20. World Composite Dry Sliding Bearing Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global Composite Dry Sliding Bearing Company Evaluation Quadrant
Table 22. World Composite Dry Sliding Bearing Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Composite Dry Sliding Bearing Production Site of Key Manufacturer
Table 24. Composite Dry Sliding Bearing Market: Company Product Type Footprint
Table 25. Composite Dry Sliding Bearing Market: Company Product Application Footprint
Table 26. Composite Dry Sliding Bearing Competitive Factors
Table 27. Composite Dry Sliding Bearing New Entrant and Capacity Expansion Plans
Table 28. Composite Dry Sliding Bearing Mergers & Acquisitions Activity
Table 29. United States VS China Composite Dry Sliding Bearing Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Composite Dry Sliding Bearing Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China Composite Dry Sliding Bearing Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based Composite Dry Sliding Bearing Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Composite Dry Sliding Bearing Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Composite Dry Sliding Bearing Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Composite Dry Sliding Bearing Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers Composite Dry Sliding Bearing Production Market Share (2021-2026)
Table 37. China Based Composite Dry Sliding Bearing Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Composite Dry Sliding Bearing Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Composite Dry Sliding Bearing Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Composite Dry Sliding Bearing Production, (2021-2026) & (K Units)

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Table 41. China Based Manufacturers Composite Dry Sliding Bearing Production Market Share (2021-2026)
Table 42. Rest of World Based Composite Dry Sliding Bearing Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Composite Dry Sliding Bearing Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Composite Dry Sliding Bearing Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Composite Dry Sliding Bearing Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers Composite Dry Sliding Bearing Production Market Share (2021-2026)
Table 47. World Composite Dry Sliding Bearing Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Composite Dry Sliding Bearing Production by Type (2021-2026) & (K Units)
Table 49. World Composite Dry Sliding Bearing Production by Type (2027-2032) & (K Units)
Table 50. World Composite Dry Sliding Bearing Production Value by Type (2021-2026) & (USD Million)
Table 51. World Composite Dry Sliding Bearing Production Value by Type (2027-2032) & (USD Million)
Table 52. World Composite Dry Sliding Bearing Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World Composite Dry Sliding Bearing Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World Composite Dry Sliding Bearing Production Value by Backing Material, (USD Million), 2021 & 2025 & 2032
Table 55. World Composite Dry Sliding Bearing Production by Backing Material (2021-2026) & (K Units)
Table 56. World Composite Dry Sliding Bearing Production by Backing Material (2027-2032) & (K Units)
Table 57. World Composite Dry Sliding Bearing Production Value by Backing Material (2021-2026) & (USD Million)
Table 58. World Composite Dry Sliding Bearing Production Value by Backing Material (2027-2032) & (USD Million)
Table 59. World Composite Dry Sliding Bearing Average Price by Backing Material (2021-2026) & (US$/Unit)
Table 60. World Composite Dry Sliding Bearing Average Price by Backing Material

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(2027-2032) & (US$/Unit)
Table 61. World Composite Dry Sliding Bearing Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 62. World Composite Dry Sliding Bearing Production by Application (2021-2026) & (K Units)
Table 63. World Composite Dry Sliding Bearing Production by Application (2027-2032) & (K Units)
Table 64. World Composite Dry Sliding Bearing Production Value by Application (2021-2026) & (USD Million)
Table 65. World Composite Dry Sliding Bearing Production Value by Application (2027-2032) & (USD Million)
Table 66. World Composite Dry Sliding Bearing Average Price by Application (2021-2026) & (US$/Unit)
Table 67. World Composite Dry Sliding Bearing Average Price by Application (2027-2032) & (US$/Unit)
Table 68. GGB Basic Information, Manufacturing Base and Competitors
Table 69. GGB Major Business
Table 70. GGB Composite Dry Sliding Bearing Product and Services
Table 71. GGB Composite Dry Sliding Bearing Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 72. GGB Recent Developments/Updates
Table 73. GGB Competitive Strengths & Weaknesses
Table 74. SKF Basic Information, Manufacturing Base and Competitors
Table 75. SKF Major Business
Table 76. SKF Composite Dry Sliding Bearing Product and Services
Table 77. SKF Composite Dry Sliding Bearing Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 78. SKF Recent Developments/Updates
Table 79. SKF Competitive Strengths & Weaknesses
Table 80. Schaeffler Basic Information, Manufacturing Base and Competitors
Table 81. Schaeffler Major Business
Table 82. Schaeffler Composite Dry Sliding Bearing Product and Services
Table 83. Schaeffler Composite Dry Sliding Bearing Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 84. Schaeffler Recent Developments/Updates
Table 85. Schaeffler Competitive Strengths & Weaknesses
Table 86. Daido Metal Basic Information, Manufacturing Base and Competitors
Table 87. Daido Metal Major Business

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Table 88. Daido Metal Composite Dry Sliding Bearing Product and Services
Table 89. Daido Metal Composite Dry Sliding Bearing Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 90. Daido Metal Recent Developments/Updates
Table 91. Daido Metal Competitive Strengths & Weaknesses
Table 92. KS Gleitlager Basic Information, Manufacturing Base and Competitors
Table 93. KS Gleitlager Major Business
Table 94. KS Gleitlager Composite Dry Sliding Bearing Product and Services
Table 95. KS Gleitlager Composite Dry Sliding Bearing Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 96. KS Gleitlager Recent Developments/Updates
Table 97. KS Gleitlager Competitive Strengths & Weaknesses
Table 98. OILES Basic Information, Manufacturing Base and Competitors
Table 99. OILES Major Business
Table 100. OILES Composite Dry Sliding Bearing Product and Services
Table 101. OILES Composite Dry Sliding Bearing Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 102. OILES Recent Developments/Updates
Table 103. OILES Competitive Strengths & Weaknesses
Table 104. Saint-Gobain Basic Information, Manufacturing Base and Competitors
Table 105. Saint-Gobain Major Business
Table 106. Saint-Gobain Composite Dry Sliding Bearing Product and Services
Table 107. Saint-Gobain Composite Dry Sliding Bearing Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 108. Saint-Gobain Recent Developments/Updates
Table 109. Saint-Gobain Competitive Strengths & Weaknesses
Table 110. Technymon Basic Information, Manufacturing Base and Competitors
Table 111. Technymon Major Business
Table 112. Technymon Composite Dry Sliding Bearing Product and Services
Table 113. Technymon Composite Dry Sliding Bearing Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 114. Technymon Recent Developments/Updates
Table 115. Technymon Competitive Strengths & Weaknesses
Table 116. Zhejiang Changsheng Sliding Bearings Basic Information, Manufacturing

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Base and Competitors
Table 117. Zhejiang Changsheng Sliding Bearings Major Business
Table 118. Zhejiang Changsheng Sliding Bearings Composite Dry Sliding Bearing Product and Services
Table 119. Zhejiang Changsheng Sliding Bearings Composite Dry Sliding Bearing Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 120. Zhejiang Changsheng Sliding Bearings Recent Developments/Updates
Table 121. Zhejiang Changsheng Sliding Bearings Competitive Strengths & Weaknesses
Table 122. Shuangfei Oil-Free Bearing Group Basic Information, Manufacturing Base and Competitors
Table 123. Shuangfei Oil-Free Bearing Group Major Business
Table 124. Shuangfei Oil-Free Bearing Group Composite Dry Sliding Bearing Product and Services
Table 125. Shuangfei Oil-Free Bearing Group Composite Dry Sliding Bearing Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 126. Shuangfei Oil-Free Bearing Group Recent Developments/Updates
Table 127. Shuangfei Oil-Free Bearing Group Competitive Strengths & Weaknesses
Table 128. Zhejiang Zhongda Precision Parts Basic Information, Manufacturing Base and Competitors
Table 129. Zhejiang Zhongda Precision Parts Major Business
Table 130. Zhejiang Zhongda Precision Parts Composite Dry Sliding Bearing Product and Services
Table 131. Zhejiang Zhongda Precision Parts Composite Dry Sliding Bearing Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 132. Zhejiang Zhongda Precision Parts Recent Developments/Updates
Table 133. Zhejiang Zhongda Precision Parts Competitive Strengths & Weaknesses
Table 134. Mingyang Technology (Suzhou) Basic Information, Manufacturing Base and Competitors
Table 135. Mingyang Technology (Suzhou) Major Business
Table 136. Mingyang Technology (Suzhou) Composite Dry Sliding Bearing Product and Services
Table 137. Mingyang Technology (Suzhou) Composite Dry Sliding Bearing Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 138. Mingyang Technology (Suzhou) Recent Developments/Updates

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Table 139. Mingyang Technology (Suzhou) Competitive Strengths & Weaknesses
Table 140. Global Key Players of Composite Dry Sliding Bearing Upstream (Raw Materials)
Table 141. Global Composite Dry Sliding Bearing Typical Customers
Table 142. Composite Dry Sliding Bearing Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Composite Dry Sliding Bearing Picture
Figure 2. World Composite Dry Sliding Bearing Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Composite Dry Sliding Bearing Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Composite Dry Sliding Bearing Production (2021-2032) & (K Units)
Figure 5. World Composite Dry Sliding Bearing Average Price (2021-2032) & (US$/Unit)
Figure 6. World Composite Dry Sliding Bearing Production Value Market Share by Region (2021-2032)
Figure 7. World Composite Dry Sliding Bearing Production Market Share by Region (2021-2032)
Figure 8. North America Composite Dry Sliding Bearing Production (2021-2032) & (K Units)
Figure 9. Europe Composite Dry Sliding Bearing Production (2021-2032) & (K Units)
Figure 10. China Composite Dry Sliding Bearing Production (2021-2032) & (K Units)
Figure 11. Japan Composite Dry Sliding Bearing Production (2021-2032) & (K Units)
Figure 12. Composite Dry Sliding Bearing Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World Composite Dry Sliding Bearing Consumption (2021-2032) & (K Units)
Figure 15. World Composite Dry Sliding Bearing Consumption Market Share by Region (2021-2032)
Figure 16. United States Composite Dry Sliding Bearing Consumption (2021-2032) & (K Units)
Figure 17. China Composite Dry Sliding Bearing Consumption (2021-2032) & (K Units)
Figure 18. Europe Composite Dry Sliding Bearing Consumption (2021-2032) & (K Units)
Figure 19. Japan Composite Dry Sliding Bearing Consumption (2021-2032) & (K Units)
Figure 20. South Korea Composite Dry Sliding Bearing Consumption (2021-2032) & (K Units)
Figure 21. ASEAN Composite Dry Sliding Bearing Consumption (2021-2032) & (K Units)
Figure 22. India Composite Dry Sliding Bearing Consumption (2021-2032) & (K Units)
Figure 23. Producer Shipments of Composite Dry Sliding Bearing by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for Composite Dry Sliding Bearing Markets in 2025

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Figure 25. Global Four-firm Concentration Ratios (CR8) for Composite Dry Sliding Bearing Markets in 2025
Figure 26. United States VS China: Composite Dry Sliding Bearing Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: Composite Dry Sliding Bearing Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Composite Dry Sliding Bearing Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers Composite Dry Sliding Bearing Production Market Share 2025
Figure 30. China Based Manufacturers Composite Dry Sliding Bearing Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Composite Dry Sliding Bearing Production Market Share 2025
Figure 32. World Composite Dry Sliding Bearing Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World Composite Dry Sliding Bearing Production Value Market Share by Type in 2025
Figure 34. Bushing Type
Figure 35. Thrust Washer Type
Figure 36. Sliding Plate Type
Figure 37. Other
Figure 38. World Composite Dry Sliding Bearing Production Market Share by Type (2021-2032)
Figure 39. World Composite Dry Sliding Bearing Production Value Market Share by Type (2021-2032)
Figure 40. World Composite Dry Sliding Bearing Average Price by Type (2021-2032) & (US$/Unit)
Figure 41. World Composite Dry Sliding Bearing Production Value by Backing Material, (USD Million), 2021 & 2025 & 2032
Figure 42. World Composite Dry Sliding Bearing Production Value Market Share by Backing Material in 2025
Figure 43. Steel-backed
Figure 44. Bronze-backed
Figure 45. Other
Figure 46. World Composite Dry Sliding Bearing Production Market Share by Backing Material (2021-2032)
Figure 47. World Composite Dry Sliding Bearing Production Value Market Share by Backing Material (2021-2032)

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Figure 48. World Composite Dry Sliding Bearing Average Price by Backing Material (2021-2032) & (US$/Unit)
Figure 49. World Composite Dry Sliding Bearing Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 50. World Composite Dry Sliding Bearing Production Value Market Share by Application in 2025
Figure 51. Automotive
Figure 52. Construction Machinery
Figure 53. Agricultural Machinery
Figure 54. Rail Transit
Figure 55. Aerospace
Figure 56. Other
Figure 57. World Composite Dry Sliding Bearing Production Market Share by Application (2021-2032)
Figure 58. World Composite Dry Sliding Bearing Production Value Market Share by Application (2021-2032)
Figure 59. World Composite Dry Sliding Bearing Average Price by Application (2021-2032) & (US$/Unit)
Figure 60. Composite Dry Sliding Bearing Industry Chain
Figure 61. Composite Dry Sliding Bearing Procurement Model
Figure 62. Composite Dry Sliding Bearing Sales Model
Figure 63. Composite Dry Sliding Bearing Sales Channels, Direct Sales, and Distribution
Figure 64. Methodology
Figure 65. Research Process and Data Source

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