

Global Silicon Nitride Bearing Balls Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G2157CE88BA1EN.html>

Date: January 2026

Pages: 119

Price: US\$ 4,480.00 (Single User License)

ID: G2157CE88BA1EN

Abstracts

The global Silicon Nitride Bearing Balls market size is expected to reach \$ 607 million by 2032, rising at a market growth of 14.0% CAGR during the forecast period (2026-2032).

In 2025, global production of Silicon Nitride Bearing Balls reached 1,003.61 tons. The global average market price was approximately USD 245,800 per ton, with total production capacity of about 1,500 tons. The industry's average gross margin was 24.13%.

Silicon Nitride Bearing Balls are highly valued for their exceptional hardness, low density, and high resistance to thermal shock, making them well suited for high-speed, high-temperature, and low-lubrication environments. They are widely used in advanced bearing systems, aerospace components, and precision mechanical parts, where durability, low friction, and lightweight characteristics are critical. In addition, due to their low coefficient of thermal expansion and excellent mechanical stability, silicon nitride balls also perform exceptionally well in high-vacuum and corrosive environments.

Key upstream raw materials include silicon nitride powder and sintering additives.

Major upstream suppliers include H.C. Starck, VESTA Si, UBE, US Research Nanomaterials, Panadyne, Eno Material, Jinsheng Ceramic, and Sinoma.

Downstream customers include SKF, CoorsTek, Boca Bearing, Ortech Ceramics, LB Lily Bearings, Schaeffler, NSK, ZXSQ Ceramic Bearing, Rolex, GAC Toyota Motor, GKN, and NTN.

The Asia-Pacific region dominates the global market, accounting for nearly 49.18% of total sales. This leadership is primarily driven by China's rapid expansion in the electric vehicle (EV) industry, alongside the concentration of high-end semiconductor manufacturing in Japan, Taiwan, and South Korea. North America and Europe follow as major markets, supported by strong demand from aerospace, defense, and medical device applications. While Germany and the United States remain key centers for

precision engineering and advanced bearing design, manufacturing capacity is gradually shifting toward Southeast Asia as companies seek to optimize production costs and improve supply chain efficiency.

The transition to 800V high-voltage EV platforms represents the most powerful growth driver for silicon nitride bearing balls. In these systems, ceramic balls are critical for preventing electrical arcing and bearing erosion in high-speed traction motors. Beyond automotive applications, the semiconductor equipment sector offers substantial growth potential, as next-generation lithography and wafer-handling tools require non-magnetic, electrically insulating, and vacuum-compatible bearings. The wind energy industry is also emerging as an important demand source, particularly for large-diameter silicon nitride balls used in offshore turbines to extend service life and reduce maintenance costs. In addition, surgical robotics and biomedical implants are beginning to adopt silicon nitride components due to their high precision, corrosion resistance, and biocompatibility.

A notable market trend is the widespread adoption of hybrid bearings, which combine steel races with silicon nitride balls to strike a balance between performance enhancement and cost control. At the same time, manufacturers are investing in advanced Hot Isostatic Pressing (HIP) techniques to eliminate internal micro-pores, significantly improving fatigue life and reliability. The market is also witnessing increasing miniaturization, driven by demand from high-speed dental drills, precision spindles, and micro-electronics. Alongside this, sustainability considerations are gaining prominence, as low-friction ceramic bearings help reduce energy consumption and extend equipment lifecycles in industrial machinery.

Despite its strong growth outlook, the market faces several persistent challenges. High production costs remain the most significant barrier, as silicon nitride sintering and ultra-precision grinding processes are far more expensive than conventional steel bearing manufacturing. This limits adoption in cost-sensitive and low-voltage vehicle segments. Supply chain fragility is another concern, as high-purity silicon nitride powder and specialized processing equipment are controlled by a limited number of global suppliers. Additionally, the industry faces technical constraints in Non-Destructive Evaluation (NDE): the material's non-conductive and opaque nature makes internal defect detection both complex and costly, a critical issue for safety-sensitive aerospace applications.

Looking toward 2030, the prevailing theme will be the industrialization of quality. Leading players such as Tsubaki Nakashima and Toshiba must increasingly balance uncompromising performance standards with aggressive cost-reduction strategies in order to compete with emerging manufacturers. Hybrid bearing configurations are likely to remain the most pragmatic solution, delivering many of the advantages of ceramic technology while retaining the economic benefits of steel components. Ultimately, the

long-term success of the silicon nitride bearing ball market will depend on the industry's ability to scale manufacturing capacity, improve yield rates, and advance inspection technologies, enabling these 'black ceramic' balls to evolve from premium niche components into a core reliability standard for the modern electric and high-precision industrial era.

This report studies the global Silicon Nitride Bearing Balls production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Silicon Nitride Bearing Balls total production and demand, 2021-2032, (tons)

Global Silicon Nitride Bearing Balls total production value, 2021-2032, (USD Million)

Global Silicon Nitride Bearing Balls production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (tons), (based on production site)

Global Silicon Nitride Bearing Balls consumption by region & country, CAGR, 2021-2032 & (tons)

U.S. VS China: Silicon Nitride Bearing Balls domestic production, consumption, key domestic manufacturers and share

Global Silicon Nitride Bearing Balls production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (tons)

Global Silicon Nitride Bearing Balls production by Type, production, value, CAGR, 2021-2032, (USD Million) & (tons)

Global Silicon Nitride Bearing Balls production by Application, production, value, CAGR, 2021-2032, (USD Million) & (tons)

This report profiles key players in the global Silicon Nitride Bearing Balls 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 Tsubaki Nakashima, Niterra, Amatsuji Steel Ball, Jiangsu Sinocera Jinsheng Ceramic, CoorsTek, Sinoma, SKF, Luoyang Bearing Research Institute, Jiangsu Dongpu Fine Ceramic, Acro New Materials, 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 Silicon Nitride Bearing Balls 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 Silicon Nitride Bearing Balls Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Nitride Bearing Balls Market, Segmentation by Type:

Below 6 mm

6 mm-12 mm

12 mm-25 mm

Above 25 mm

Global Silicon Nitride Bearing Balls Market, Segmentation by Accuracy Level:

G3

G5

G10

G16

G25

Others

Global Silicon Nitride Bearing Balls Market, Segmentation by Manufacturing Process:

Full-automatic Dispenser

Semi-automatic Dispenser

Global Silicon Nitride Bearing Balls Market, Segmentation by Application:

Machinery

Automotive

Energy

Aerospace

Others

Companies Profiled:

Tsubaki Nakashima

Niterra

Amatsuji Steel Ball

Jiangsu Sinocera Jinsheng Ceramic

CoorsTek

Sinoma

SKF

Luoyang Bearing Research Institute

Jiangsu Dongpu Fine Ceramic

Acro New Materials

Redhill Precision Specialty Balls

Key Questions Answered:

1. How big is the global Silicon Nitride Bearing Balls market?
2. What is the demand of the global Silicon Nitride Bearing Balls market?
3. What is the year over year growth of the global Silicon Nitride Bearing Balls market?
4. What is the production and production value of the global Silicon Nitride Bearing Balls market?
5. Who are the key producers in the global Silicon Nitride Bearing Balls market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

and Production Site (States, Country)

4.4.2 United States Based Manufacturers Silicon Nitride Bearing Balls Production Value (2021-2026)

4.4.3 United States Based Manufacturers Silicon Nitride Bearing Balls Production (2021-2026)

4.5 China Based Silicon Nitride Bearing Balls Manufacturers and Market Share

4.5.1 China Based Silicon Nitride Bearing Balls Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Silicon Nitride Bearing Balls Production Value (2021-2026)

4.5.3 China Based Manufacturers Silicon Nitride Bearing Balls Production (2021-2026)

4.6 Rest of World Based Silicon Nitride Bearing Balls Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Silicon Nitride Bearing Balls Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Silicon Nitride Bearing Balls Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Silicon Nitride Bearing Balls Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Silicon Nitride Bearing Balls Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Below 6 mm

5.2.2 6 mm-12 mm

5.2.3 12 mm-25 mm

5.2.4 Above 25 mm

5.3 Market Segment by Type

5.3.1 World Silicon Nitride Bearing Balls Production by Type (2021-2032)

5.3.2 World Silicon Nitride Bearing Balls Production Value by Type (2021-2032)

5.3.3 World Silicon Nitride Bearing Balls Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ACCURACY LEVEL

6.1 World Silicon Nitride Bearing Balls Market Size Overview by Accuracy Level: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Accuracy Level

- 6.2.1 G3
- 6.2.2 G5
- 6.2.3 G10
- 6.2.4 G16
- 6.2.5 G25
- 6.2.6 Others

6.3 Market Segment by Accuracy Level

- 6.3.1 World Silicon Nitride Bearing Balls Production by Accuracy Level (2021-2032)
- 6.3.2 World Silicon Nitride Bearing Balls Production Value by Accuracy Level (2021-2032)
- 6.3.3 World Silicon Nitride Bearing Balls Average Price by Accuracy Level (2021-2032)

7 MARKET ANALYSIS BY MANUFACTURING PROCESS

7.1 World Silicon Nitride Bearing Balls Market Size Overview by Manufacturing Process: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Manufacturing Process

- 7.2.1 Full-automatic Dispenser
- 7.2.2 Semi-automatic Dispenser

7.3 Market Segment by Manufacturing Process

- 7.3.1 World Silicon Nitride Bearing Balls Production by Manufacturing Process (2021-2032)
- 7.3.2 World Silicon Nitride Bearing Balls Production Value by Manufacturing Process (2021-2032)
- 7.3.3 World Silicon Nitride Bearing Balls Average Price by Manufacturing Process (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Silicon Nitride Bearing Balls Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

- 8.2.1 Machinery
- 8.2.2 Automotive
- 8.2.3 Energy
- 8.2.4 Aerospace
- 8.2.5 Others

8.3 Market Segment by Application

- 8.3.1 World Silicon Nitride Bearing Balls Production by Application (2021-2032)

- 8.3.2 World Silicon Nitride Bearing Balls Production Value by Application (2021-2032)
- 8.3.3 World Silicon Nitride Bearing Balls Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Tsubaki Nakashima

- 9.1.1 Tsubaki Nakashima Details
- 9.1.2 Tsubaki Nakashima Major Business
- 9.1.3 Tsubaki Nakashima Silicon Nitride Bearing Balls Product and Services
- 9.1.4 Tsubaki Nakashima Silicon Nitride Bearing Balls Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Tsubaki Nakashima Recent Developments/Updates
- 9.1.6 Tsubaki Nakashima Competitive Strengths & Weaknesses

9.2 Niterra

- 9.2.1 Niterra Details
- 9.2.2 Niterra Major Business
- 9.2.3 Niterra Silicon Nitride Bearing Balls Product and Services
- 9.2.4 Niterra Silicon Nitride Bearing Balls Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Niterra Recent Developments/Updates
- 9.2.6 Niterra Competitive Strengths & Weaknesses

9.3 Amatsuji Steel Ball

- 9.3.1 Amatsuji Steel Ball Details
- 9.3.2 Amatsuji Steel Ball Major Business
- 9.3.3 Amatsuji Steel Ball Silicon Nitride Bearing Balls Product and Services
- 9.3.4 Amatsuji Steel Ball Silicon Nitride Bearing Balls Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 Amatsuji Steel Ball Recent Developments/Updates
- 9.3.6 Amatsuji Steel Ball Competitive Strengths & Weaknesses

9.4 Jiangsu Sinocera Jinsheng Ceramic

- 9.4.1 Jiangsu Sinocera Jinsheng Ceramic Details
- 9.4.2 Jiangsu Sinocera Jinsheng Ceramic Major Business
- 9.4.3 Jiangsu Sinocera Jinsheng Ceramic Silicon Nitride Bearing Balls Product and Services
- 9.4.4 Jiangsu Sinocera Jinsheng Ceramic Silicon Nitride Bearing Balls Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Jiangsu Sinocera Jinsheng Ceramic Recent Developments/Updates
- 9.4.6 Jiangsu Sinocera Jinsheng Ceramic Competitive Strengths & Weaknesses

9.5 CoorsTek

- 9.5.1 CoorsTek Details
- 9.5.2 CoorsTek Major Business
- 9.5.3 CoorsTek Silicon Nitride Bearing Balls Product and Services
- 9.5.4 CoorsTek Silicon Nitride Bearing Balls Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 CoorsTek Recent Developments/Updates
- 9.5.6 CoorsTek Competitive Strengths & Weaknesses
- 9.6 Sinoma
 - 9.6.1 Sinoma Details
 - 9.6.2 Sinoma Major Business
 - 9.6.3 Sinoma Silicon Nitride Bearing Balls Product and Services
 - 9.6.4 Sinoma Silicon Nitride Bearing Balls Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Sinoma Recent Developments/Updates
 - 9.6.6 Sinoma Competitive Strengths & Weaknesses
- 9.7 SKF
 - 9.7.1 SKF Details
 - 9.7.2 SKF Major Business
 - 9.7.3 SKF Silicon Nitride Bearing Balls Product and Services
 - 9.7.4 SKF Silicon Nitride Bearing Balls Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 SKF Recent Developments/Updates
 - 9.7.6 SKF Competitive Strengths & Weaknesses
- 9.8 Luoyang Bearing Research Institute
 - 9.8.1 Luoyang Bearing Research Institute Details
 - 9.8.2 Luoyang Bearing Research Institute Major Business
 - 9.8.3 Luoyang Bearing Research Institute Silicon Nitride Bearing Balls Product and Services
 - 9.8.4 Luoyang Bearing Research Institute Silicon Nitride Bearing Balls Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Luoyang Bearing Research Institute Recent Developments/Updates
 - 9.8.6 Luoyang Bearing Research Institute Competitive Strengths & Weaknesses
- 9.9 Jiangsu Dongpu Fine Ceramic
 - 9.9.1 Jiangsu Dongpu Fine Ceramic Details
 - 9.9.2 Jiangsu Dongpu Fine Ceramic Major Business
 - 9.9.3 Jiangsu Dongpu Fine Ceramic Silicon Nitride Bearing Balls Product and Services
 - 9.9.4 Jiangsu Dongpu Fine Ceramic Silicon Nitride Bearing Balls Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Jiangsu Dongpu Fine Ceramic Recent Developments/Updates

- 9.9.6 Jiangsu Dongpu Fine Ceramic Competitive Strengths & Weaknesses
- 9.10 Acro New Materials
 - 9.10.1 Acro New Materials Details
 - 9.10.2 Acro New Materials Major Business
 - 9.10.3 Acro New Materials Silicon Nitride Bearing Balls Product and Services
 - 9.10.4 Acro New Materials Silicon Nitride Bearing Balls Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Acro New Materials Recent Developments/Updates
 - 9.10.6 Acro New Materials Competitive Strengths & Weaknesses
- 9.11 Redhill Precision Specialty Balls
 - 9.11.1 Redhill Precision Specialty Balls Details
 - 9.11.2 Redhill Precision Specialty Balls Major Business
 - 9.11.3 Redhill Precision Specialty Balls Silicon Nitride Bearing Balls Product and Services
 - 9.11.4 Redhill Precision Specialty Balls Silicon Nitride Bearing Balls Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Redhill Precision Specialty Balls Recent Developments/Updates
 - 9.11.6 Redhill Precision Specialty Balls Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Silicon Nitride Bearing Balls Industry Chain
- 10.2 Silicon Nitride Bearing Balls Upstream Analysis
 - 10.2.1 Silicon Nitride Bearing Balls Core Raw Materials
 - 10.2.2 Main Manufacturers of Silicon Nitride Bearing Balls Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Silicon Nitride Bearing Balls Production Mode
- 10.6 Silicon Nitride Bearing Balls Procurement Model
- 10.7 Silicon Nitride Bearing Balls Industry Sales Model and Sales Channels
 - 10.7.1 Silicon Nitride Bearing Balls Sales Model
 - 10.7.2 Silicon Nitride Bearing Balls 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 Silicon Nitride Bearing Balls Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Silicon Nitride Bearing Balls Production Value by Region (2021-2026) & (USD Million)

Table 3. World Silicon Nitride Bearing Balls Production Value by Region (2027-2032) & (USD Million)

Table 4. World Silicon Nitride Bearing Balls Production Value Market Share by Region (2021-2026)

Table 5. World Silicon Nitride Bearing Balls Production Value Market Share by Region (2027-2032)

Table 6. World Silicon Nitride Bearing Balls Production by Region (2021-2026) & (tons)

Table 7. World Silicon Nitride Bearing Balls Production by Region (2027-2032) & (tons)

Table 8. World Silicon Nitride Bearing Balls Production Market Share by Region (2021-2026)

Table 9. World Silicon Nitride Bearing Balls Production Market Share by Region (2027-2032)

Table 10. World Silicon Nitride Bearing Balls Average Price by Region (2021-2026) & (US\$/ton)

Table 11. World Silicon Nitride Bearing Balls Average Price by Region (2027-2032) & (US\$/ton)

Table 12. Silicon Nitride Bearing Balls Major Market Trends

Table 13. World Silicon Nitride Bearing Balls Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (tons)

Table 14. World Silicon Nitride Bearing Balls Consumption by Region (2021-2026) & (tons)

Table 15. World Silicon Nitride Bearing Balls Consumption Forecast by Region (2027-2032) & (tons)

Table 16. World Silicon Nitride Bearing Balls Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Silicon Nitride Bearing Balls Producers in 2025

Table 18. World Silicon Nitride Bearing Balls Production by Manufacturer (2021-2026) & (tons)

Table 19. Production Market Share of Key Silicon Nitride Bearing Balls Producers in 2025

Table 20. World Silicon Nitride Bearing Balls Average Price by Manufacturer (2021-2026) & (US\$/ton)

Table 21. Global Silicon Nitride Bearing Balls Company Evaluation Quadrant

Table 22. World Silicon Nitride Bearing Balls Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Silicon Nitride Bearing Balls Production Site of Key Manufacturer

Table 24. Silicon Nitride Bearing Balls Market: Company Product Type Footprint

Table 25. Silicon Nitride Bearing Balls Market: Company Product Application Footprint

Table 26. Silicon Nitride Bearing Balls Competitive Factors

Table 27. Silicon Nitride Bearing Balls New Entrant and Capacity Expansion Plans

Table 28. Silicon Nitride Bearing Balls Mergers & Acquisitions Activity

Table 29. United States VS China Silicon Nitride Bearing Balls Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Silicon Nitride Bearing Balls Production Comparison, (2021 & 2025 & 2032) & (tons)

Table 31. United States VS China Silicon Nitride Bearing Balls Consumption Comparison, (2021 & 2025 & 2032) & (tons)

Table 32. United States Based Silicon Nitride Bearing Balls Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Silicon Nitride Bearing Balls Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Silicon Nitride Bearing Balls Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Silicon Nitride Bearing Balls Production (2021-2026) & (tons)

Table 36. United States Based Manufacturers Silicon Nitride Bearing Balls Production Market Share (2021-2026)

Table 37. China Based Silicon Nitride Bearing Balls Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Silicon Nitride Bearing Balls Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Silicon Nitride Bearing Balls Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Silicon Nitride Bearing Balls Production, (2021-2026) & (tons)

Table 41. China Based Manufacturers Silicon Nitride Bearing Balls Production Market Share (2021-2026)

Table 42. Rest of World Based Silicon Nitride Bearing Balls Manufacturers,

Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Silicon Nitride Bearing Balls Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Silicon Nitride Bearing Balls Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Silicon Nitride Bearing Balls Production, (2021-2026) & (tons)

Table 46. Rest of World Based Manufacturers Silicon Nitride Bearing Balls Production Market Share (2021-2026)

Table 47. World Silicon Nitride Bearing Balls Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Silicon Nitride Bearing Balls Production by Type (2021-2026) & (tons)

Table 49. World Silicon Nitride Bearing Balls Production by Type (2027-2032) & (tons)

Table 50. World Silicon Nitride Bearing Balls Production Value by Type (2021-2026) & (USD Million)

Table 51. World Silicon Nitride Bearing Balls Production Value by Type (2027-2032) & (USD Million)

Table 52. World Silicon Nitride Bearing Balls Average Price by Type (2021-2026) & (US\$/ton)

Table 53. World Silicon Nitride Bearing Balls Average Price by Type (2027-2032) & (US\$/ton)

Table 54. World Silicon Nitride Bearing Balls Production Value by Accuracy Level, (USD Million), 2021 & 2025 & 2032

Table 55. World Silicon Nitride Bearing Balls Production by Accuracy Level (2021-2026) & (tons)

Table 56. World Silicon Nitride Bearing Balls Production by Accuracy Level (2027-2032) & (tons)

Table 57. World Silicon Nitride Bearing Balls Production Value by Accuracy Level (2021-2026) & (USD Million)

Table 58. World Silicon Nitride Bearing Balls Production Value by Accuracy Level (2027-2032) & (USD Million)

Table 59. World Silicon Nitride Bearing Balls Average Price by Accuracy Level (2021-2026) & (US\$/ton)

Table 60. World Silicon Nitride Bearing Balls Average Price by Accuracy Level (2027-2032) & (US\$/ton)

Table 61. World Silicon Nitride Bearing Balls Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Table 62. World Silicon Nitride Bearing Balls Production by Manufacturing Process (2021-2026) & (tons)

Table 63. World Silicon Nitride Bearing Balls Production by Manufacturing Process (2027-2032) & (tons)

Table 64. World Silicon Nitride Bearing Balls Production Value by Manufacturing Process (2021-2026) & (USD Million)

Table 65. World Silicon Nitride Bearing Balls Production Value by Manufacturing Process (2027-2032) & (USD Million)

Table 66. World Silicon Nitride Bearing Balls Average Price by Manufacturing Process (2021-2026) & (US\$/ton)

Table 67. World Silicon Nitride Bearing Balls Average Price by Manufacturing Process (2027-2032) & (US\$/ton)

Table 68. World Silicon Nitride Bearing Balls Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Silicon Nitride Bearing Balls Production by Application (2021-2026) & (tons)

Table 70. World Silicon Nitride Bearing Balls Production by Application (2027-2032) & (tons)

Table 71. World Silicon Nitride Bearing Balls Production Value by Application (2021-2026) & (USD Million)

Table 72. World Silicon Nitride Bearing Balls Production Value by Application (2027-2032) & (USD Million)

Table 73. World Silicon Nitride Bearing Balls Average Price by Application (2021-2026) & (US\$/ton)

Table 74. World Silicon Nitride Bearing Balls Average Price by Application (2027-2032) & (US\$/ton)

Table 75. Tsubaki Nakashima Basic Information, Manufacturing Base and Competitors

Table 76. Tsubaki Nakashima Major Business

Table 77. Tsubaki Nakashima Silicon Nitride Bearing Balls Product and Services

Table 78. Tsubaki Nakashima Silicon Nitride Bearing Balls Production (tons), Price (US\$/ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Tsubaki Nakashima Recent Developments/Updates

Table 80. Tsubaki Nakashima Competitive Strengths & Weaknesses

Table 81. Niterra Basic Information, Manufacturing Base and Competitors

Table 82. Niterra Major Business

Table 83. Niterra Silicon Nitride Bearing Balls Product and Services

Table 84. Niterra Silicon Nitride Bearing Balls Production (tons), Price (US\$/ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Niterra Recent Developments/Updates

Table 86. Niterra Competitive Strengths & Weaknesses

Table 87. Amatsuji Steel Ball Basic Information, Manufacturing Base and Competitors

Table 88. Amatsuji Steel Ball Major Business

Table 89. Amatsuji Steel Ball Silicon Nitride Bearing Balls Product and Services

Table 90. Amatsuji Steel Ball Silicon Nitride Bearing Balls Production (tons), Price (US\$/ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Amatsuji Steel Ball Recent Developments/Updates

Table 92. Amatsuji Steel Ball Competitive Strengths & Weaknesses

Table 93. Jiangsu Sinocera Jinsheng Ceramic Basic Information, Manufacturing Base and Competitors

Table 94. Jiangsu Sinocera Jinsheng Ceramic Major Business

Table 95. Jiangsu Sinocera Jinsheng Ceramic Silicon Nitride Bearing Balls Product and Services

Table 96. Jiangsu Sinocera Jinsheng Ceramic Silicon Nitride Bearing Balls Production (tons), Price (US\$/ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Jiangsu Sinocera Jinsheng Ceramic Recent Developments/Updates

Table 98. Jiangsu Sinocera Jinsheng Ceramic Competitive Strengths & Weaknesses

Table 99. CoorsTek Basic Information, Manufacturing Base and Competitors

Table 100. CoorsTek Major Business

Table 101. CoorsTek Silicon Nitride Bearing Balls Product and Services

Table 102. CoorsTek Silicon Nitride Bearing Balls Production (tons), Price (US\$/ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. CoorsTek Recent Developments/Updates

Table 104. CoorsTek Competitive Strengths & Weaknesses

Table 105. Sinoma Basic Information, Manufacturing Base and Competitors

Table 106. Sinoma Major Business

Table 107. Sinoma Silicon Nitride Bearing Balls Product and Services

Table 108. Sinoma Silicon Nitride Bearing Balls Production (tons), Price (US\$/ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Sinoma Recent Developments/Updates

Table 110. Sinoma Competitive Strengths & Weaknesses

Table 111. SKF Basic Information, Manufacturing Base and Competitors

Table 112. SKF Major Business

Table 113. SKF Silicon Nitride Bearing Balls Product and Services

Table 114. SKF Silicon Nitride Bearing Balls Production (tons), Price (US\$/ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. SKF Recent Developments/Updates

Table 116. SKF Competitive Strengths & Weaknesses

- Table 117. Luoyang Bearing Research Institute Basic Information, Manufacturing Base and Competitors
- Table 118. Luoyang Bearing Research Institute Major Business
- Table 119. Luoyang Bearing Research Institute Silicon Nitride Bearing Balls Product and Services
- Table 120. Luoyang Bearing Research Institute Silicon Nitride Bearing Balls Production (tons), Price (US\$/ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Luoyang Bearing Research Institute Recent Developments/Updates
- Table 122. Luoyang Bearing Research Institute Competitive Strengths & Weaknesses
- Table 123. Jiangsu Dongpu Fine Ceramic Basic Information, Manufacturing Base and Competitors
- Table 124. Jiangsu Dongpu Fine Ceramic Major Business
- Table 125. Jiangsu Dongpu Fine Ceramic Silicon Nitride Bearing Balls Product and Services
- Table 126. Jiangsu Dongpu Fine Ceramic Silicon Nitride Bearing Balls Production (tons), Price (US\$/ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Jiangsu Dongpu Fine Ceramic Recent Developments/Updates
- Table 128. Jiangsu Dongpu Fine Ceramic Competitive Strengths & Weaknesses
- Table 129. Acro New Materials Basic Information, Manufacturing Base and Competitors
- Table 130. Acro New Materials Major Business
- Table 131. Acro New Materials Silicon Nitride Bearing Balls Product and Services
- Table 132. Acro New Materials Silicon Nitride Bearing Balls Production (tons), Price (US\$/ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Acro New Materials Recent Developments/Updates
- Table 134. Acro New Materials Competitive Strengths & Weaknesses
- Table 135. Redhill Precision Specialty Balls Basic Information, Manufacturing Base and Competitors
- Table 136. Redhill Precision Specialty Balls Major Business
- Table 137. Redhill Precision Specialty Balls Silicon Nitride Bearing Balls Product and Services
- Table 138. Redhill Precision Specialty Balls Silicon Nitride Bearing Balls Production (tons), Price (US\$/ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Redhill Precision Specialty Balls Recent Developments/Updates
- Table 140. Redhill Precision Specialty Balls Competitive Strengths & Weaknesses
- Table 141. Global Key Players of Silicon Nitride Bearing Balls Upstream (Raw

Materials)

Table 142. Global Silicon Nitride Bearing Balls Typical Customers

Table 143. Silicon Nitride Bearing Balls Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Silicon Nitride Bearing Balls Picture
- Figure 2. World Silicon Nitride Bearing Balls Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Silicon Nitride Bearing Balls Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Silicon Nitride Bearing Balls Production (2021-2032) & (tons)
- Figure 5. World Silicon Nitride Bearing Balls Average Price (2021-2032) & (US\$/ton)
- Figure 6. World Silicon Nitride Bearing Balls Production Value Market Share by Region (2021-2032)
- Figure 7. World Silicon Nitride Bearing Balls Production Market Share by Region (2021-2032)
- Figure 8. North America Silicon Nitride Bearing Balls Production (2021-2032) & (tons)
- Figure 9. Europe Silicon Nitride Bearing Balls Production (2021-2032) & (tons)
- Figure 10. China Silicon Nitride Bearing Balls Production (2021-2032) & (tons)
- Figure 11. Japan Silicon Nitride Bearing Balls Production (2021-2032) & (tons)
- Figure 12. Silicon Nitride Bearing Balls Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Silicon Nitride Bearing Balls Consumption (2021-2032) & (tons)
- Figure 15. World Silicon Nitride Bearing Balls Consumption Market Share by Region (2021-2032)
- Figure 16. United States Silicon Nitride Bearing Balls Consumption (2021-2032) & (tons)
- Figure 17. China Silicon Nitride Bearing Balls Consumption (2021-2032) & (tons)
- Figure 18. Europe Silicon Nitride Bearing Balls Consumption (2021-2032) & (tons)
- Figure 19. Japan Silicon Nitride Bearing Balls Consumption (2021-2032) & (tons)
- Figure 20. South Korea Silicon Nitride Bearing Balls Consumption (2021-2032) & (tons)
- Figure 21. ASEAN Silicon Nitride Bearing Balls Consumption (2021-2032) & (tons)
- Figure 22. India Silicon Nitride Bearing Balls Consumption (2021-2032) & (tons)
- Figure 23. Producer Shipments of Silicon Nitride Bearing Balls by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Silicon Nitride Bearing Balls Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Silicon Nitride Bearing Balls Markets in 2025
- Figure 26. United States VS China: Silicon Nitride Bearing Balls Production Value

Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Silicon Nitride Bearing Balls Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Silicon Nitride Bearing Balls Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Silicon Nitride Bearing Balls Production Market Share 2025

Figure 30. China Based Manufacturers Silicon Nitride Bearing Balls Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Silicon Nitride Bearing Balls Production Market Share 2025

Figure 32. World Silicon Nitride Bearing Balls Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Silicon Nitride Bearing Balls Production Value Market Share by Type in 2025

Figure 34. Below 6 mm

Figure 35. 6 mm-12 mm

Figure 36. 12 mm-25 mm

Figure 37. Above 25 mm

Figure 38. World Silicon Nitride Bearing Balls Production Market Share by Type (2021-2032)

Figure 39. World Silicon Nitride Bearing Balls Production Value Market Share by Type (2021-2032)

Figure 40. World Silicon Nitride Bearing Balls Average Price by Type (2021-2032) & (US\$/ton)

Figure 41. World Silicon Nitride Bearing Balls Production Value by Accuracy Level, (USD Million), 2021 & 2025 & 2032

Figure 42. World Silicon Nitride Bearing Balls Production Value Market Share by Accuracy Level in 2025

Figure 43. G3

Figure 44. G5

Figure 45. G10

Figure 46. G16

Figure 47. G25

Figure 48. Others

Figure 49. World Silicon Nitride Bearing Balls Production Market Share by Accuracy Level (2021-2032)

Figure 50. World Silicon Nitride Bearing Balls Production Value Market Share by Accuracy Level (2021-2032)

Figure 51. World Silicon Nitride Bearing Balls Average Price by Accuracy Level (2021-2032) & (US\$/ton)

Figure 52. World Silicon Nitride Bearing Balls Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Figure 53. World Silicon Nitride Bearing Balls Production Value Market Share by Manufacturing Process in 2025

Figure 54. Full-automatic Dispenser

Figure 55. Semi-automatic Dispenser

Figure 56. World Silicon Nitride Bearing Balls Production Market Share by Manufacturing Process (2021-2032)

Figure 57. World Silicon Nitride Bearing Balls Production Value Market Share by Manufacturing Process (2021-2032)

Figure 58. World Silicon Nitride Bearing Balls Average Price by Manufacturing Process (2021-2032) & (US\$/ton)

Figure 59. World Silicon Nitride Bearing Balls Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Silicon Nitride Bearing Balls Production Value Market Share by Application in 2025

Figure 61. Machinery

Figure 62. Automotive

Figure 63. Energy

Figure 64. Aerospace

Figure 65. Others

Figure 66. World Silicon Nitride Bearing Balls Production Market Share by Application (2021-2032)

Figure 67. World Silicon Nitride Bearing Balls Production Value Market Share by Application (2021-2032)

Figure 68. World Silicon Nitride Bearing Balls Average Price by Application (2021-2032) & (US\$/ton)

Figure 69. Silicon Nitride Bearing Balls Industry Chain

Figure 70. Silicon Nitride Bearing Balls Procurement Model

Figure 71. Silicon Nitride Bearing Balls Sales Model

Figure 72. Silicon Nitride Bearing Balls Sales Channels, Direct Sales, and Distribution

Figure 73. Methodology

Figure 74. Research Process and Data Source

I would like to order

Product name: Global Silicon Nitride Bearing Balls Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G2157CE88BA1EN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G2157CE88BA1EN.html>