

# Global Solid Ball Spline Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Solid Ball Spline market size is expected to reach \$ 4046 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

Solid ball splines are precision transmission components used in linear motion systems. Structurally, they consist of a solid spline shaft (a round shaft with longitudinal spline teeth) and a spline sleeve with internal circulating ball tracks. Low-friction linear motion is achieved by the rolling of balls between the shaft and the sleeve. Simultaneously, the spline meshing structure enables torque transmission, prevents rotation, and maintains high positioning accuracy. Compared to hollow spline shafts, 'solid' means the shaft body is made of a single solid material, typically possessing higher rigidity, bending strength, and load-bearing capacity. They are commonly used in machine tools, industrial robots, automation modules, and high-precision assembly equipment. In 2025, sales volume was 6.8 million units, with an average price of \$410, total production capacity of 8 million units, and a gross profit margin of 41%.

This report studies the global Solid Ball Spline production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solid Ball Spline 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 Solid Ball Spline that contribute to its increasing demand across many markets.

### Highlights and key features of the study

Global Solid Ball Spline total production and demand, 2021-2032, (K Units)

Global Solid Ball Spline total production value, 2021-2032, (USD Million)  
Global Solid Ball Spline production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)  
Global Solid Ball Spline consumption by region & country, CAGR, 2021-2032 & (K Units)  
U.S. VS China: Solid Ball Spline domestic production, consumption, key domestic manufacturers and share  
Global Solid Ball Spline production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)  
Global Solid Ball Spline production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)  
Global Solid Ball Spline production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Solid Ball Spline 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 THK?JP?, NSK?JP?, HIWIN?TW?, Thomson Industries?US?, PMI?TW?, TBI Motion?TW?, Nook Industries?US?, Nippon Bearing / NB?JP?, PBC Linear?US?, OZAK Seiko?JP?, 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 Solid Ball Spline 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 Solid Ball Spline Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Solid Ball Spline Market, Segmentation by Type:

Standard Solid Ball Spline

Integrated Ball Spline

Miniature Ball Spline

#### Global Solid Ball Spline Market, Segmentation by Shaft Diameter:

d6

d8

d10

d12

Others

#### Global Solid Ball Spline Market, Segmentation by Preload Type:

Clearance Fit

Light Preload

Medium Preload

Heavy Preload

#### Global Solid Ball Spline Market, Segmentation by Application:

Industrial Automation

Semiconductor Equipment

Machine Tools

Others

#### Companies Profiled:

THK?JP?

NSK?JP?

HIWIN?TW?

Thomson Industries?US?

PMI?TW?

TBI Motion?TW?

Nook Industries?US?

Nippon Bearing / NB?JP?

PBC Linear?US?

OZAK Seiko?JP?

KSS?JP?

TSUBAKI NAKASHIMA?JP?

Schneeberger?CH)

Bosch Rexroth?DE?

SBC Linear?CN?

Schneeberger?DE?

Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN?

Schaeffler / INA?DE?

### **Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Solid Ball Spline Production Value by Manufacturer (2021-2026)

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

(2021-2026)

4.4.3 United States Based Manufacturers Solid Ball Spline Production (2021-2026)

4.5 China Based Solid Ball Spline Manufacturers and Market Share

4.5.1 China Based Solid Ball Spline Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Solid Ball Spline Production Value (2021-2026)

4.5.3 China Based Manufacturers Solid Ball Spline Production (2021-2026)

4.6 Rest of World Based Solid Ball Spline Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Solid Ball Spline Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Solid Ball Spline Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Solid Ball Spline Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Solid Ball Spline Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Standard Solid Ball Spline

5.2.2 Integrated Ball Spline

5.2.3 Miniature Ball Spline

5.3 Market Segment by Type

5.3.1 World Solid Ball Spline Production by Type (2021-2032)

5.3.2 World Solid Ball Spline Production Value by Type (2021-2032)

5.3.3 World Solid Ball Spline Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY SHAFT DIAMETER**

6.1 World Solid Ball Spline Market Size Overview by Shaft Diameter: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Shaft Diameter

6.2.1 d6

6.2.2 d8

6.2.3 d10

6.2.4 d12

6.2.5 Others

6.3 Market Segment by Shaft Diameter

6.3.1 World Solid Ball Spline Production by Shaft Diameter (2021-2032)

6.3.2 World Solid Ball Spline Production Value by Shaft Diameter (2021-2032)

### 6.3.3 World Solid Ball Spline Average Price by Shaft Diameter (2021-2032)

## **7 MARKET ANALYSIS BY PRELOAD TYPE**

### 7.1 World Solid Ball Spline Market Size Overview by Preload Type: 2021 VS 2025 VS 2032

#### 7.2 Segment Introduction by Preload Type

##### 7.2.1 Clearance Fit

##### 7.2.2 Light Preload

##### 7.2.3 Medium Preload

##### 7.2.4 Heavy Preload

#### 7.3 Market Segment by Preload Type

##### 7.3.1 World Solid Ball Spline Production by Preload Type (2021-2032)

##### 7.3.2 World Solid Ball Spline Production Value by Preload Type (2021-2032)

##### 7.3.3 World Solid Ball Spline Average Price by Preload Type (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

### 8.1 World Solid Ball Spline Market Size Overview by Application: 2021 VS 2025 VS 2032

#### 8.2 Segment Introduction by Application

##### 8.2.1 Industrial Automation

##### 8.2.2 Semiconductor Equipment

##### 8.2.3 Machine Tools

##### 8.2.4 Others

#### 8.3 Market Segment by Application

##### 8.3.1 World Solid Ball Spline Production by Application (2021-2032)

##### 8.3.2 World Solid Ball Spline Production Value by Application (2021-2032)

##### 8.3.3 World Solid Ball Spline Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

### 9.1 THK?JP?

#### 9.1.1 THK?JP? Details

#### 9.1.2 THK?JP? Major Business

#### 9.1.3 THK?JP? Solid Ball Spline Product and Services

#### 9.1.4 THK?JP? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.1.5 THK?JP? Recent Developments/Updates

- 9.1.6 THK?JP? Competitive Strengths & Weaknesses
- 9.2 NSK?JP?
  - 9.2.1 NSK?JP? Details
  - 9.2.2 NSK?JP? Major Business
  - 9.2.3 NSK?JP? Solid Ball Spline Product and Services
  - 9.2.4 NSK?JP? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.2.5 NSK?JP? Recent Developments/Updates
  - 9.2.6 NSK?JP? Competitive Strengths & Weaknesses
- 9.3 HIWIN?TW?
  - 9.3.1 HIWIN?TW? Details
  - 9.3.2 HIWIN?TW? Major Business
  - 9.3.3 HIWIN?TW? Solid Ball Spline Product and Services
  - 9.3.4 HIWIN?TW? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 HIWIN?TW? Recent Developments/Updates
  - 9.3.6 HIWIN?TW? Competitive Strengths & Weaknesses
- 9.4 Thomson Industries?US?
  - 9.4.1 Thomson Industries?US? Details
  - 9.4.2 Thomson Industries?US? Major Business
  - 9.4.3 Thomson Industries?US? Solid Ball Spline Product and Services
  - 9.4.4 Thomson Industries?US? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Thomson Industries?US? Recent Developments/Updates
  - 9.4.6 Thomson Industries?US? Competitive Strengths & Weaknesses
- 9.5 PMI?TW?
  - 9.5.1 PMI?TW? Details
  - 9.5.2 PMI?TW? Major Business
  - 9.5.3 PMI?TW? Solid Ball Spline Product and Services
  - 9.5.4 PMI?TW? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 PMI?TW? Recent Developments/Updates
  - 9.5.6 PMI?TW? Competitive Strengths & Weaknesses
- 9.6 TBI Motion?TW?
  - 9.6.1 TBI Motion?TW? Details
  - 9.6.2 TBI Motion?TW? Major Business
  - 9.6.3 TBI Motion?TW? Solid Ball Spline Product and Services
  - 9.6.4 TBI Motion?TW? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.6.5 TBI Motion?TW? Recent Developments/Updates
- 9.6.6 TBI Motion?TW? Competitive Strengths & Weaknesses
- 9.7 Nook Industries?US?
  - 9.7.1 Nook Industries?US? Details
  - 9.7.2 Nook Industries?US? Major Business
  - 9.7.3 Nook Industries?US? Solid Ball Spline Product and Services
  - 9.7.4 Nook Industries?US? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Nook Industries?US? Recent Developments/Updates
  - 9.7.6 Nook Industries?US? Competitive Strengths & Weaknesses
- 9.8 Nippon Bearing / NB?JP?
  - 9.8.1 Nippon Bearing / NB?JP? Details
  - 9.8.2 Nippon Bearing / NB?JP? Major Business
  - 9.8.3 Nippon Bearing / NB?JP? Solid Ball Spline Product and Services
  - 9.8.4 Nippon Bearing / NB?JP? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Nippon Bearing / NB?JP? Recent Developments/Updates
  - 9.8.6 Nippon Bearing / NB?JP? Competitive Strengths & Weaknesses
- 9.9 PBC Linear?US?
  - 9.9.1 PBC Linear?US? Details
  - 9.9.2 PBC Linear?US? Major Business
  - 9.9.3 PBC Linear?US? Solid Ball Spline Product and Services
  - 9.9.4 PBC Linear?US? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 PBC Linear?US? Recent Developments/Updates
  - 9.9.6 PBC Linear?US? Competitive Strengths & Weaknesses
- 9.10 OZAK Seiko?JP?
  - 9.10.1 OZAK Seiko?JP? Details
  - 9.10.2 OZAK Seiko?JP? Major Business
  - 9.10.3 OZAK Seiko?JP? Solid Ball Spline Product and Services
  - 9.10.4 OZAK Seiko?JP? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 OZAK Seiko?JP? Recent Developments/Updates
  - 9.10.6 OZAK Seiko?JP? Competitive Strengths & Weaknesses
- 9.11 KSS?JP?
  - 9.11.1 KSS?JP? Details
  - 9.11.2 KSS?JP? Major Business
  - 9.11.3 KSS?JP? Solid Ball Spline Product and Services
  - 9.11.4 KSS?JP? Solid Ball Spline Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.11.5 KSS?JP? Recent Developments/Updates

9.11.6 KSS?JP? Competitive Strengths & Weaknesses

9.12 TSUBAKI NAKASHIMA?JP?

9.12.1 TSUBAKI NAKASHIMA?JP? Details

9.12.2 TSUBAKI NAKASHIMA?JP? Major Business

9.12.3 TSUBAKI NAKASHIMA?JP? Solid Ball Spline Product and Services

9.12.4 TSUBAKI NAKASHIMA?JP? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 TSUBAKI NAKASHIMA?JP? Recent Developments/Updates

9.12.6 TSUBAKI NAKASHIMA?JP? Competitive Strengths & Weaknesses

9.13 Schneeberger?CH)

9.13.1 Schneeberger?CH) Details

9.13.2 Schneeberger?CH) Major Business

9.13.3 Schneeberger?CH) Solid Ball Spline Product and Services

9.13.4 Schneeberger?CH) Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Schneeberger?CH) Recent Developments/Updates

9.13.6 Schneeberger?CH) Competitive Strengths & Weaknesses

9.14 Bosch Rexroth?DE?

9.14.1 Bosch Rexroth?DE? Details

9.14.2 Bosch Rexroth?DE? Major Business

9.14.3 Bosch Rexroth?DE? Solid Ball Spline Product and Services

9.14.4 Bosch Rexroth?DE? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Bosch Rexroth?DE? Recent Developments/Updates

9.14.6 Bosch Rexroth?DE? Competitive Strengths & Weaknesses

9.15 SBC Linear?CN?

9.15.1 SBC Linear?CN? Details

9.15.2 SBC Linear?CN? Major Business

9.15.3 SBC Linear?CN? Solid Ball Spline Product and Services

9.15.4 SBC Linear?CN? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 SBC Linear?CN? Recent Developments/Updates

9.15.6 SBC Linear?CN? Competitive Strengths & Weaknesses

9.16 Schneeberger?DE?

9.16.1 Schneeberger?DE? Details

9.16.2 Schneeberger?DE? Major Business

9.16.3 Schneeberger?DE? Solid Ball Spline Product and Services

- 9.16.4 Schneeberger?DE? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.16.5 Schneeberger?DE? Recent Developments/Updates
- 9.16.6 Schneeberger?DE? Competitive Strengths & Weaknesses
- 9.17 Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN?
  - 9.17.1 Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN? Details
  - 9.17.2 Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN? Major Business
  - 9.17.3 Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN? Solid Ball Spline Product and Services
  - 9.17.4 Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.17.5 Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN? Recent Developments/Updates
  - 9.17.6 Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN? Competitive Strengths & Weaknesses
- 9.18 Schaeffler / INA?DE?
  - 9.18.1 Schaeffler / INA?DE? Details
  - 9.18.2 Schaeffler / INA?DE? Major Business
  - 9.18.3 Schaeffler / INA?DE? Solid Ball Spline Product and Services
  - 9.18.4 Schaeffler / INA?DE? Solid Ball Spline Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.18.5 Schaeffler / INA?DE? Recent Developments/Updates
  - 9.18.6 Schaeffler / INA?DE? Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Solid Ball Spline Industry Chain
- 10.2 Solid Ball Spline Upstream Analysis
  - 10.2.1 Solid Ball Spline Core Raw Materials
  - 10.2.2 Main Manufacturers of Solid Ball Spline Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Solid Ball Spline Production Mode
- 10.6 Solid Ball Spline Procurement Model
- 10.7 Solid Ball Spline Industry Sales Model and Sales Channels
  - 10.7.1 Solid Ball Spline Sales Model
  - 10.7.2 Solid Ball Spline 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 Solid Ball Spline Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Solid Ball Spline Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Solid Ball Spline Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Solid Ball Spline Production Value Market Share by Region (2021-2026)
- Table 5. World Solid Ball Spline Production Value Market Share by Region (2027-2032)
- Table 6. World Solid Ball Spline Production by Region (2021-2026) & (K Units)
- Table 7. World Solid Ball Spline Production by Region (2027-2032) & (K Units)
- Table 8. World Solid Ball Spline Production Market Share by Region (2021-2026)
- Table 9. World Solid Ball Spline Production Market Share by Region (2027-2032)
- Table 10. World Solid Ball Spline Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Solid Ball Spline Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Solid Ball Spline Major Market Trends
- Table 13. World Solid Ball Spline Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Solid Ball Spline Consumption by Region (2021-2026) & (K Units)
- Table 15. World Solid Ball Spline Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Solid Ball Spline Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Solid Ball Spline Producers in 2025
- Table 18. World Solid Ball Spline Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key Solid Ball Spline Producers in 2025
- Table 20. World Solid Ball Spline Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global Solid Ball Spline Company Evaluation Quadrant
- Table 22. World Solid Ball Spline Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Solid Ball Spline Production Site of Key Manufacturer
- Table 24. Solid Ball Spline Market: Company Product Type Footprint
- Table 25. Solid Ball Spline Market: Company Product Application Footprint
- Table 26. Solid Ball Spline Competitive Factors
- Table 27. Solid Ball Spline New Entrant and Capacity Expansion Plans

Table 28. Solid Ball Spline Mergers & Acquisitions Activity

Table 29. United States VS China Solid Ball Spline Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Solid Ball Spline Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Solid Ball Spline Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Solid Ball Spline Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Solid Ball Spline Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Solid Ball Spline Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Solid Ball Spline Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Solid Ball Spline Production Market Share (2021-2026)

Table 37. China Based Solid Ball Spline Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Solid Ball Spline Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Solid Ball Spline Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Solid Ball Spline Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Solid Ball Spline Production Market Share (2021-2026)

Table 42. Rest of World Based Solid Ball Spline Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Solid Ball Spline Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Solid Ball Spline Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Solid Ball Spline Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Solid Ball Spline Production Market Share (2021-2026)

Table 47. World Solid Ball Spline Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Solid Ball Spline Production by Type (2021-2026) & (K Units)

Table 49. World Solid Ball Spline Production by Type (2027-2032) & (K Units)

Table 50. World Solid Ball Spline Production Value by Type (2021-2026) & (USD Million)

Table 51. World Solid Ball Spline Production Value by Type (2027-2032) & (USD Million)

Table 52. World Solid Ball Spline Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Solid Ball Spline Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Solid Ball Spline Production Value by Shaft Diameter, (USD Million), 2021 & 2025 & 2032

Table 55. World Solid Ball Spline Production by Shaft Diameter (2021-2026) & (K Units)

Table 56. World Solid Ball Spline Production by Shaft Diameter (2027-2032) & (K Units)

Table 57. World Solid Ball Spline Production Value by Shaft Diameter (2021-2026) & (USD Million)

Table 58. World Solid Ball Spline Production Value by Shaft Diameter (2027-2032) & (USD Million)

Table 59. World Solid Ball Spline Average Price by Shaft Diameter (2021-2026) & (US\$/Unit)

Table 60. World Solid Ball Spline Average Price by Shaft Diameter (2027-2032) & (US\$/Unit)

Table 61. World Solid Ball Spline Production Value by Preload Type, (USD Million), 2021 & 2025 & 2032

Table 62. World Solid Ball Spline Production by Preload Type (2021-2026) & (K Units)

Table 63. World Solid Ball Spline Production by Preload Type (2027-2032) & (K Units)

Table 64. World Solid Ball Spline Production Value by Preload Type (2021-2026) & (USD Million)

Table 65. World Solid Ball Spline Production Value by Preload Type (2027-2032) & (USD Million)

Table 66. World Solid Ball Spline Average Price by Preload Type (2021-2026) & (US\$/Unit)

Table 67. World Solid Ball Spline Average Price by Preload Type (2027-2032) & (US\$/Unit)

Table 68. World Solid Ball Spline Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Solid Ball Spline Production by Application (2021-2026) & (K Units)

Table 70. World Solid Ball Spline Production by Application (2027-2032) & (K Units)

Table 71. World Solid Ball Spline Production Value by Application (2021-2026) & (USD Million)

Table 72. World Solid Ball Spline Production Value by Application (2027-2032) & (USD Million)

Million)

Table 73. World Solid Ball Spline Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Solid Ball Spline Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. THK?JP? Basic Information, Manufacturing Base and Competitors

Table 76. THK?JP? Major Business

Table 77. THK?JP? Solid Ball Spline Product and Services

Table 78. THK?JP? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. THK?JP? Recent Developments/Updates

Table 80. THK?JP? Competitive Strengths & Weaknesses

Table 81. NSK?JP? Basic Information, Manufacturing Base and Competitors

Table 82. NSK?JP? Major Business

Table 83. NSK?JP? Solid Ball Spline Product and Services

Table 84. NSK?JP? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. NSK?JP? Recent Developments/Updates

Table 86. NSK?JP? Competitive Strengths & Weaknesses

Table 87. HIWIN?TW? Basic Information, Manufacturing Base and Competitors

Table 88. HIWIN?TW? Major Business

Table 89. HIWIN?TW? Solid Ball Spline Product and Services

Table 90. HIWIN?TW? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. HIWIN?TW? Recent Developments/Updates

Table 92. HIWIN?TW? Competitive Strengths & Weaknesses

Table 93. Thomson Industries?US? Basic Information, Manufacturing Base and Competitors

Table 94. Thomson Industries?US? Major Business

Table 95. Thomson Industries?US? Solid Ball Spline Product and Services

Table 96. Thomson Industries?US? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Thomson Industries?US? Recent Developments/Updates

Table 98. Thomson Industries?US? Competitive Strengths & Weaknesses

Table 99. PMI?TW? Basic Information, Manufacturing Base and Competitors

Table 100. PMI?TW? Major Business

Table 101. PMI?TW? Solid Ball Spline Product and Services

Table 102. PMI?TW? Solid Ball Spline Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. PMI?TW? Recent Developments/Updates

Table 104. PMI?TW? Competitive Strengths & Weaknesses

Table 105. TBI Motion?TW? Basic Information, Manufacturing Base and Competitors

Table 106. TBI Motion?TW? Major Business

Table 107. TBI Motion?TW? Solid Ball Spline Product and Services

Table 108. TBI Motion?TW? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. TBI Motion?TW? Recent Developments/Updates

Table 110. TBI Motion?TW? Competitive Strengths & Weaknesses

Table 111. Nook Industries?US? Basic Information, Manufacturing Base and Competitors

Table 112. Nook Industries?US? Major Business

Table 113. Nook Industries?US? Solid Ball Spline Product and Services

Table 114. Nook Industries?US? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Nook Industries?US? Recent Developments/Updates

Table 116. Nook Industries?US? Competitive Strengths & Weaknesses

Table 117. Nippon Bearing / NB?JP? Basic Information, Manufacturing Base and Competitors

Table 118. Nippon Bearing / NB?JP? Major Business

Table 119. Nippon Bearing / NB?JP? Solid Ball Spline Product and Services

Table 120. Nippon Bearing / NB?JP? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Nippon Bearing / NB?JP? Recent Developments/Updates

Table 122. Nippon Bearing / NB?JP? Competitive Strengths & Weaknesses

Table 123. PBC Linear?US? Basic Information, Manufacturing Base and Competitors

Table 124. PBC Linear?US? Major Business

Table 125. PBC Linear?US? Solid Ball Spline Product and Services

Table 126. PBC Linear?US? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. PBC Linear?US? Recent Developments/Updates

Table 128. PBC Linear?US? Competitive Strengths & Weaknesses

Table 129. OZAK Seiko?JP? Basic Information, Manufacturing Base and Competitors

Table 130. OZAK Seiko?JP? Major Business

Table 131. OZAK Seiko?JP? Solid Ball Spline Product and Services

Table 132. OZAK Seiko?JP? Solid Ball Spline Production (K Units), Price (US\$/Unit),

- Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. OZAK Seiko?JP? Recent Developments/Updates
- Table 134. OZAK Seiko?JP? Competitive Strengths & Weaknesses
- Table 135. KSS?JP? Basic Information, Manufacturing Base and Competitors
- Table 136. KSS?JP? Major Business
- Table 137. KSS?JP? Solid Ball Spline Product and Services
- Table 138. KSS?JP? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. KSS?JP? Recent Developments/Updates
- Table 140. KSS?JP? Competitive Strengths & Weaknesses
- Table 141. TSUBAKI NAKASHIMA?JP? Basic Information, Manufacturing Base and Competitors
- Table 142. TSUBAKI NAKASHIMA?JP? Major Business
- Table 143. TSUBAKI NAKASHIMA?JP? Solid Ball Spline Product and Services
- Table 144. TSUBAKI NAKASHIMA?JP? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. TSUBAKI NAKASHIMA?JP? Recent Developments/Updates
- Table 146. TSUBAKI NAKASHIMA?JP? Competitive Strengths & Weaknesses
- Table 147. Schneeberger?CH) Basic Information, Manufacturing Base and Competitors
- Table 148. Schneeberger?CH) Major Business
- Table 149. Schneeberger?CH) Solid Ball Spline Product and Services
- Table 150. Schneeberger?CH) Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Schneeberger?CH) Recent Developments/Updates
- Table 152. Schneeberger?CH) Competitive Strengths & Weaknesses
- Table 153. Bosch Rexroth?DE? Basic Information, Manufacturing Base and Competitors
- Table 154. Bosch Rexroth?DE? Major Business
- Table 155. Bosch Rexroth?DE? Solid Ball Spline Product and Services
- Table 156. Bosch Rexroth?DE? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Bosch Rexroth?DE? Recent Developments/Updates
- Table 158. Bosch Rexroth?DE? Competitive Strengths & Weaknesses
- Table 159. SBC Linear?CN? Basic Information, Manufacturing Base and Competitors
- Table 160. SBC Linear?CN? Major Business
- Table 161. SBC Linear?CN? Solid Ball Spline Product and Services
- Table 162. SBC Linear?CN? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 163. SBC Linear?CN? Recent Developments/Updates
- Table 164. SBC Linear?CN? Competitive Strengths & Weaknesses
- Table 165. Schneeberger?DE? Basic Information, Manufacturing Base and Competitors
- Table 166. Schneeberger?DE? Major Business
- Table 167. Schneeberger?DE? Solid Ball Spline Product and Services
- Table 168. Schneeberger?DE? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. Schneeberger?DE? Recent Developments/Updates
- Table 170. Schneeberger?DE? Competitive Strengths & Weaknesses
- Table 171. Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN? Basic Information, Manufacturing Base and Competitors
- Table 172. Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN? Major Business
- Table 173. Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN? Solid Ball Spline Product and Services
- Table 174. Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN? Recent Developments/Updates
- Table 176. Dongguan Jingrui Transmission Machinery Equipment Co., Ltd.?CN? Competitive Strengths & Weaknesses
- Table 177. Schaeffler / INA?DE? Basic Information, Manufacturing Base and Competitors
- Table 178. Schaeffler / INA?DE? Major Business
- Table 179. Schaeffler / INA?DE? Solid Ball Spline Product and Services
- Table 180. Schaeffler / INA?DE? Solid Ball Spline Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 181. Schaeffler / INA?DE? Recent Developments/Updates
- Table 182. Schaeffler / INA?DE? Competitive Strengths & Weaknesses
- Table 183. Global Key Players of Solid Ball Spline Upstream (Raw Materials)
- Table 184. Global Solid Ball Spline Typical Customers
- Table 185. Solid Ball Spline Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Solid Ball Spline Picture

Figure 2. World Solid Ball Spline Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Solid Ball Spline Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Solid Ball Spline Production (2021-2032) & (K Units)

Figure 5. World Solid Ball Spline Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Solid Ball Spline Production Value Market Share by Region (2021-2032)

Figure 7. World Solid Ball Spline Production Market Share by Region (2021-2032)

Figure 8. North America Solid Ball Spline Production (2021-2032) & (K Units)

Figure 9. Europe Solid Ball Spline Production (2021-2032) & (K Units)

Figure 10. China Solid Ball Spline Production (2021-2032) & (K Units)

Figure 11. Japan Solid Ball Spline Production (2021-2032) & (K Units)

Figure 12. Solid Ball Spline Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Solid Ball Spline Consumption (2021-2032) & (K Units)

Figure 15. World Solid Ball Spline Consumption Market Share by Region (2021-2032)

Figure 16. United States Solid Ball Spline Consumption (2021-2032) & (K Units)

Figure 17. China Solid Ball Spline Consumption (2021-2032) & (K Units)

Figure 18. Europe Solid Ball Spline Consumption (2021-2032) & (K Units)

Figure 19. Japan Solid Ball Spline Consumption (2021-2032) & (K Units)

Figure 20. South Korea Solid Ball Spline Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Solid Ball Spline Consumption (2021-2032) & (K Units)

Figure 22. India Solid Ball Spline Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Solid Ball Spline by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Solid Ball Spline Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Solid Ball Spline Markets in 2025

Figure 26. United States VS China: Solid Ball Spline Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Solid Ball Spline Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Solid Ball Spline Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Solid Ball Spline Production Market Share 2025

Figure 30. China Based Manufacturers Solid Ball Spline Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Solid Ball Spline Production Market Share 2025

Figure 32. World Solid Ball Spline Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Solid Ball Spline Production Value Market Share by Type in 2025

Figure 34. Standard Solid Ball Spline

Figure 35. Integrated Ball Spline

Figure 36. Miniature Ball Spline

Figure 37. World Solid Ball Spline Production Market Share by Type (2021-2032)

Figure 38. World Solid Ball Spline Production Value Market Share by Type (2021-2032)

Figure 39. World Solid Ball Spline Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Solid Ball Spline Production Value by Shaft Diameter, (USD Million), 2021 & 2025 & 2032

Figure 41. World Solid Ball Spline Production Value Market Share by Shaft Diameter in 2025

Figure 42. d6

Figure 43. d8

Figure 44. d10

Figure 45. d12

Figure 46. Others

Figure 47. World Solid Ball Spline Production Market Share by Shaft Diameter (2021-2032)

Figure 48. World Solid Ball Spline Production Value Market Share by Shaft Diameter (2021-2032)

Figure 49. World Solid Ball Spline Average Price by Shaft Diameter (2021-2032) & (US\$/Unit)

Figure 50. World Solid Ball Spline Production Value by Preload Type, (USD Million), 2021 & 2025 & 2032

Figure 51. World Solid Ball Spline Production Value Market Share by Preload Type in 2025

Figure 52. Clearance Fit

Figure 53. Light Preload

Figure 54. Medium Preload

Figure 55. Heavy Preload

Figure 56. World Solid Ball Spline Production Market Share by Preload Type

(2021-2032)

Figure 57. World Solid Ball Spline Production Value Market Share by Preload Type

(2021-2032)

Figure 58. World Solid Ball Spline Average Price by Preload Type (2021-2032) &

(US\$/Unit)

Figure 59. World Solid Ball Spline Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Solid Ball Spline Production Value Market Share by Application in 2025

Figure 61. Industrial Automation

Figure 62. Semiconductor Equipment

Figure 63. Machine Tools

Figure 64. Others

Figure 65. World Solid Ball Spline Production Market Share by Application (2021-2032)

Figure 66. World Solid Ball Spline Production Value Market Share by Application (2021-2032)

Figure 67. World Solid Ball Spline Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. Solid Ball Spline Industry Chain

Figure 69. Solid Ball Spline Procurement Model

Figure 70. Solid Ball Spline Sales Model

Figure 71. Solid Ball Spline Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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