

Global Ball Screws for Robotics Market Growth 2026-2032

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Abstracts

The global Ball Screws for Robotics market size is predicted to grow from US\$ 340 million in 2025 to US\$ 867 million in 2032; it is expected to grow at a CAGR of 14.3% from 2026 to 2032.

Ball screws for robotics are rolling transmission components used in robot joints, linear actuators, grippers, lifting mechanisms, and precision positioning systems. They typically consist of a screw shaft, ball nut, recirculating balls, and a return mechanism, converting motor rotation into efficient linear motion through rolling contact. Key procurement parameters include shaft diameter, lead, accuracy grade, preload and axial clearance, load rating, critical speed, noise, service life, and compactness. Product forms include ground and rolled ball screws, together with miniature, high-lead, and customized designs for space-constrained robotic mechanisms. Major demand comes from robotics deployed in automotive, electronics and semiconductor, general industrial manufacturing, warehousing and logistics, and medical and healthcare applications. High precision, low backlash, high rigidity, and stable lifetime performance are the primary requirements in higher-end robotic systems. The overall gross margin is approximately 35%.

Market Trends

Ball screws for robotics are shifting from general automation specifications toward smaller diameters, higher leads, lower noise, and higher power density. Industrial robot customers continue to raise requirements for reliability, repeatability, and lifetime consistency, while humanoid robots, dexterous hands, and lightweight actuators are increasing interest in miniature screws, hollow-shaft designs, low-inertia nuts, and integrated ball screw-spline structures. Procurement is also moving beyond a single

accuracy grade toward combined evaluation of efficiency, preload stability, noise, thermal behavior, and batch consistency.

Drivers

Flexible automation in automotive, electronics, and semiconductor manufacturing continues to support robot installations and precision actuator demand. At the same time, service, medical, and humanoid robots are adding new requirements for compact linear transmission, expanding the use of precision ball screws in robot axes and end-effectors.

Restraints

High-precision grinding, heat treatment, nut machining, and preload matching require specialized equipment and accumulated process know-how. Maintaining accuracy, low noise, and service life becomes more difficult as dimensions shrink, while long qualification cycles and customization requirements slow the ramp-up of new suppliers.

Opportunities

Humanoid joints, dexterous hands, medical robots, and precision grippers create incremental demand for miniature, high-lead, and low-backlash ball screws. As robot manufacturers modularize actuators, suppliers capable of co-designing screws, support bearings, splines, and actuator assemblies can increase value per robot.

Challenges

Planetary roller screws, linear motors, and other actuation technologies create substitution pressure in high-load, high-dynamic, or space-constrained applications. Robot platforms also iterate quickly, so suppliers that cannot keep pace in precision, life, noise, and volume consistency risk losing design positions during platform transitions.

Industry Chain Analysis

Upstream inputs include bearing and alloy steels, precision balls, seals, lubricants, and heat-treatment consumables. Midstream value is concentrated in thread-raceway forming, grinding, heat treatment, nut and recirculation-system machining, preload matching, and precision inspection. Because robotic systems combine tight

requirements for size, inertia, noise, and reliability, process yield, precision equipment, metrology, and application engineering matter more than raw material cost alone. Downstream customers are robot OEMs and actuator or module manufacturers, with final deployment concentrated in manufacturing, logistics, healthcare, and other automation industries.

Segment Insights

Small-diameter and small-to-medium-lead products are gaining faster adoption in robot end-effectors, dexterous hands, and compact actuators, while medium-diameter products remain important for industrial robot linear axes, lifting systems, and higher-load positioning. Ground ball screws retain an advantage in high-precision and low-backlash applications, while rolled products serve more cost-sensitive general robotics and peripheral automation. As compact robotic actuators scale, accuracy grade and preload consistency will increasingly differentiate suppliers beyond nominal size alone.

Downstream Market Opportunities

Automotive and electronics or semiconductor manufacturing remain the core industrial demand pools, with general manufacturing providing stable automation replacement demand. Rising robotics penetration in warehousing, logistics, and healthcare creates stronger opportunities for lightweight, low-noise, maintenance-friendly, and compact ball screw designs.

Regional Insights

Asia-Pacific remains the center of both demand and supply, supported by dense robotics, precision machinery, and linear-motion manufacturing ecosystems in China, Japan, South Korea, and Taiwan. China is seeing faster localization as robot capacity expands and domestic component suppliers move into higher-precision products. Europe is more weighted toward high-precision industrial automation, medical, and specialized robotics, while North America benefits from advanced manufacturing, warehouse automation, and new robotics ventures that favor customization and rapid engineering support.

Competitive Landscape Analysis

Competition spans Japanese, European, Taiwanese, and mainland Chinese suppliers. Japanese and European manufacturers retain advantages in precision grinding, lifetime

databases, and qualification with high-end customers; Taiwanese suppliers compete strongly on product breadth, cost-performance, and scaled delivery; mainland Chinese manufacturers are narrowing the gap through investment in precision ball screw lines, localization of production equipment, and deeper engagement with robot OEMs. Competitive differentiation is shifting from standard catalog specifications toward miniaturization, high lead, low noise, customized preload, and actuator-level co-design.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Ball Screws for Robotics Industry Forecast” looks at past sales and reviews total world Ball Screws for Robotics sales in 2025, providing a comprehensive analysis by region and market sector of projected Ball Screws for Robotics sales for 2026 through 2032. With Ball Screws for Robotics sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ball Screws for Robotics industry.

This Insight Report provides a comprehensive analysis of the global Ball Screws for Robotics landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Ball Screws for Robotics portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ball Screws for Robotics market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ball Screws for Robotics and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ball Screws for Robotics.

This report presents a comprehensive overview, market shares, and growth opportunities of Ball Screws for Robotics market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

≤8 mm

>8–16 mm

>16–25 mm

>25–40 mm

>40 mm

Segmentation by Lead:

≤5 mm

>5–10 mm

>10–20 mm

>20–40 mm

>40 mm

Segmentation by Manufacturing Process:

Ground Ball Screws

Rolled Ball Screws

Other-Process Ball Screws

Segmentation by Accuracy Grade:

C0–C2

C3–C5

C7–C10

Segmentation by Application:

Automotive Manufacturing

Electronics and Semiconductor Manufacturing

General Industrial Manufacturing

Warehousing and Logistics

Medical and Healthcare

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

THK

NSK

HIWIN Technologies

Bosch Rexroth

Schaeffler

Kuroda Precision Industries

KSS

TBI Motion

PMI

August Steinmeyer

Thomson

Shandong Best Precision

Nanjing Process Equipment Manufacturing

Shaanxi Hanjiang Machine Tool

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ball Screws for Robotics market?

What factors are driving Ball Screws for Robotics market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Ball Screws for Robotics market opportunities vary by end market size?

How does Ball Screws for Robotics break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Ball Screws for Robotics Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Ball Screws for Robotics by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Ball Screws for Robotics by Country/Region, 2021, 2025 & 2032

2.2 Ball Screws for Robotics Segment by Type

- 2.2.1 ?8 mm
- 2.2.2 >8–16 mm
- 2.2.3 >16–25 mm
- 2.2.4 >25–40 mm
- 2.2.5 >40 mm
- 2.2.6 Ball Screws for Robotics Sales by Type
 - 2.2.6.1 Global Ball Screws for Robotics Sales Market Share by Type (2021-2026)
 - 2.2.6.2 Global Ball Screws for Robotics Revenue and Market Share by Type (2021-2026)
 - 2.2.6.3 Global Ball Screws for Robotics Sale Price by Type (2021-2026)

2.3 Ball Screws for Robotics Segment by Lead

- 2.3.1 ?5 mm
- 2.3.2 >5–10 mm
- 2.3.3 >10–20 mm
- 2.3.4 >20–40 mm
- 2.3.5 >40 mm
- 2.3.6 Ball Screws for Robotics Sales by Lead

- 2.3.6.1 Global Ball Screws for Robotics Sales Market Share by Lead (2021-2026)
- 2.3.6.2 Global Ball Screws for Robotics Revenue and Market Share by Lead (2021-2026)
- 2.3.6.3 Global Ball Screws for Robotics Sale Price by Lead (2021-2026)
- 2.4 Ball Screws for Robotics Segment by Manufacturing Process
 - 2.4.1 Ground Ball Screws
 - 2.4.2 Rolled Ball Screws
 - 2.4.3 Other-Process Ball Screws
 - 2.4.4 Ball Screws for Robotics Sales by Manufacturing Process
 - 2.4.4.1 Global Ball Screws for Robotics Sales Market Share by Manufacturing Process (2021-2026)
 - 2.4.4.2 Global Ball Screws for Robotics Revenue and Market Share by Manufacturing Process (2021-2026)
 - 2.4.4.3 Global Ball Screws for Robotics Sale Price by Manufacturing Process (2021-2026)
- 2.5 Ball Screws for Robotics Segment by Accuracy Grade
 - 2.5.1 C0–C2
 - 2.5.2 C3–C5
 - 2.5.3 C7–C10
 - 2.5.4 Ball Screws for Robotics Sales by Accuracy Grade
 - 2.5.4.1 Global Ball Screws for Robotics Sales Market Share by Accuracy Grade (2021-2026)
 - 2.5.4.2 Global Ball Screws for Robotics Revenue and Market Share by Accuracy Grade (2021-2026)
 - 2.5.4.3 Global Ball Screws for Robotics Sale Price by Accuracy Grade (2021-2026)
- 2.6 Ball Screws for Robotics Segment by Application
 - 2.6.1 Automotive Manufacturing
 - 2.6.2 Electronics and Semiconductor Manufacturing
 - 2.6.3 General Industrial Manufacturing
 - 2.6.4 Warehousing and Logistics
 - 2.6.5 Medical and Healthcare
 - 2.6.6 Others
 - 2.6.7 Ball Screws for Robotics Sales by Application
 - 2.6.7.1 Global Ball Screws for Robotics Sale Market Share by Application (2021-2026)
 - 2.6.7.2 Global Ball Screws for Robotics Revenue and Market Share by Application (2021-2026)
 - 2.6.7.3 Global Ball Screws for Robotics Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Ball Screws for Robotics Breakdown Data by Company

3.1.1 Global Ball Screws for Robotics Annual Sales by Company (2021-2026)

3.1.2 Global Ball Screws for Robotics Sales Market Share by Company (2021-2026)

3.2 Global Ball Screws for Robotics Annual Revenue by Company (2021-2026)

3.2.1 Global Ball Screws for Robotics Revenue by Company (2021-2026)

3.2.2 Global Ball Screws for Robotics Revenue Market Share by Company (2021-2026)

3.3 Global Ball Screws for Robotics Sale Price by Company

3.4 Key Manufacturers Ball Screws for Robotics Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Ball Screws for Robotics Product Location Distribution

3.4.2 Players Ball Screws for Robotics Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR BALL SCREWS FOR ROBOTICS BY GEOGRAPHIC REGION

4.1 World Historic Ball Screws for Robotics Market Size by Geographic Region (2021-2026)

4.1.1 Global Ball Screws for Robotics Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Ball Screws for Robotics Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Ball Screws for Robotics Market Size by Country/Region (2021-2026)

4.2.1 Global Ball Screws for Robotics Annual Sales by Country/Region (2021-2026)

4.2.2 Global Ball Screws for Robotics Annual Revenue by Country/Region (2021-2026)

4.3 Americas Ball Screws for Robotics Sales Growth

4.4 APAC Ball Screws for Robotics Sales Growth

4.5 Europe Ball Screws for Robotics Sales Growth

4.6 Middle East & Africa Ball Screws for Robotics Sales Growth

5 AMERICAS

5.1 Americas Ball Screws for Robotics Sales by Country

5.1.1 Americas Ball Screws for Robotics Sales by Country (2021-2026)

5.1.2 Americas Ball Screws for Robotics Revenue by Country (2021-2026)

5.2 Americas Ball Screws for Robotics Sales by Type (2021-2026)

5.3 Americas Ball Screws for Robotics Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Ball Screws for Robotics Sales by Region

6.1.1 APAC Ball Screws for Robotics Sales by Region (2021-2026)

6.1.2 APAC Ball Screws for Robotics Revenue by Region (2021-2026)

6.2 APAC Ball Screws for Robotics Sales by Type (2021-2026)

6.3 APAC Ball Screws for Robotics Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Ball Screws for Robotics by Country

7.1.1 Europe Ball Screws for Robotics Sales by Country (2021-2026)

7.1.2 Europe Ball Screws for Robotics Revenue by Country (2021-2026)

7.2 Europe Ball Screws for Robotics Sales by Type (2021-2026)

7.3 Europe Ball Screws for Robotics Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Ball Screws for Robotics by Country

8.1.1 Middle East & Africa Ball Screws for Robotics Sales by Country (2021-2026)

8.1.2 Middle East & Africa Ball Screws for Robotics Revenue by Country (2021-2026)

8.2 Middle East & Africa Ball Screws for Robotics Sales by Type (2021-2026)

8.3 Middle East & Africa Ball Screws for Robotics Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Ball Screws for Robotics

10.3 Manufacturing Process Analysis of Ball Screws for Robotics

10.4 Industry Chain Structure of Ball Screws for Robotics

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Ball Screws for Robotics Distributors

11.3 Ball Screws for Robotics Customer

12 WORLD FORECAST REVIEW FOR BALL SCREWS FOR ROBOTICS BY GEOGRAPHIC REGION

12.1 Global Ball Screws for Robotics Market Size Forecast by Region

12.1.1 Global Ball Screws for Robotics Forecast by Region (2027-2032)

12.1.2 Global Ball Screws for Robotics Annual Revenue Forecast by Region
(2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Ball Screws for Robotics Forecast by Type (2027-2032)

12.7 Global Ball Screws for Robotics Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 THK

13.1.1 THK Company Information

13.1.2 THK Ball Screws for Robotics Product Portfolios and Specifications

13.1.3 THK Ball Screws for Robotics Sales, Revenue, Price and Gross Margin
(2021-2026)

13.1.4 THK Main Business Overview

13.1.5 THK Latest Developments

13.2 NSK

13.2.1 NSK Company Information

13.2.2 NSK Ball Screws for Robotics Product Portfolios and Specifications

13.2.3 NSK Ball Screws for Robotics Sales, Revenue, Price and Gross Margin
(2021-2026)

13.2.4 NSK Main Business Overview

13.2.5 NSK Latest Developments

13.3 HIWIN Technologies

13.3.1 HIWIN Technologies Company Information

13.3.2 HIWIN Technologies Ball Screws for Robotics Product Portfolios and
Specifications

13.3.3 HIWIN Technologies Ball Screws for Robotics Sales, Revenue, Price and Gross
Margin (2021-2026)

13.3.4 HIWIN Technologies Main Business Overview

13.3.5 HIWIN Technologies Latest Developments

13.4 Bosch Rexroth

13.4.1 Bosch Rexroth Company Information

13.4.2 Bosch Rexroth Ball Screws for Robotics Product Portfolios and Specifications

13.4.3 Bosch Rexroth Ball Screws for Robotics Sales, Revenue, Price and Gross
Margin (2021-2026)

13.4.4 Bosch Rexroth Main Business Overview

- 13.4.5 Bosch Rexroth Latest Developments
- 13.5 Schaeffler
 - 13.5.1 Schaeffler Company Information
 - 13.5.2 Schaeffler Ball Screws for Robotics Product Portfolios and Specifications
 - 13.5.3 Schaeffler Ball Screws for Robotics Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Schaeffler Main Business Overview
 - 13.5.5 Schaeffler Latest Developments
- 13.6 Kuroda Precision Industries
 - 13.6.1 Kuroda Precision Industries Company Information
 - 13.6.2 Kuroda Precision Industries Ball Screws for Robotics Product Portfolios and Specifications
 - 13.6.3 Kuroda Precision Industries Ball Screws for Robotics Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Kuroda Precision Industries Main Business Overview
 - 13.6.5 Kuroda Precision Industries Latest Developments
- 13.7 KSS
 - 13.7.1 KSS Company Information
 - 13.7.2 KSS Ball Screws for Robotics Product Portfolios and Specifications
 - 13.7.3 KSS Ball Screws for Robotics Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 KSS Main Business Overview
 - 13.7.5 KSS Latest Developments
- 13.8 TBI Motion
 - 13.8.1 TBI Motion Company Information
 - 13.8.2 TBI Motion Ball Screws for Robotics Product Portfolios and Specifications
 - 13.8.3 TBI Motion Ball Screws for Robotics Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 TBI Motion Main Business Overview
 - 13.8.5 TBI Motion Latest Developments
- 13.9 PMI
 - 13.9.1 PMI Company Information
 - 13.9.2 PMI Ball Screws for Robotics Product Portfolios and Specifications
 - 13.9.3 PMI Ball Screws for Robotics Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 PMI Main Business Overview
 - 13.9.5 PMI Latest Developments
- 13.10 August Steinmeyer
 - 13.10.1 August Steinmeyer Company Information

- 13.10.2 August Steinmeyer Ball Screws for Robotics Product Portfolios and Specifications
- 13.10.3 August Steinmeyer Ball Screws for Robotics Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.10.4 August Steinmeyer Main Business Overview
- 13.10.5 August Steinmeyer Latest Developments
- 13.11 Thomson
 - 13.11.1 Thomson Company Information
 - 13.11.2 Thomson Ball Screws for Robotics Product Portfolios and Specifications
 - 13.11.3 Thomson Ball Screws for Robotics Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Thomson Main Business Overview
 - 13.11.5 Thomson Latest Developments
- 13.12 Shandong Best Precision
 - 13.12.1 Shandong Best Precision Company Information
 - 13.12.2 Shandong Best Precision Ball Screws for Robotics Product Portfolios and Specifications
 - 13.12.3 Shandong Best Precision Ball Screws for Robotics Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Shandong Best Precision Main Business Overview
 - 13.12.5 Shandong Best Precision Latest Developments
- 13.13 Nanjing Process Equipment Manufacturing
 - 13.13.1 Nanjing Process Equipment Manufacturing Company Information
 - 13.13.2 Nanjing Process Equipment Manufacturing Ball Screws for Robotics Product Portfolios and Specifications
 - 13.13.3 Nanjing Process Equipment Manufacturing Ball Screws for Robotics Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Nanjing Process Equipment Manufacturing Main Business Overview
 - 13.13.5 Nanjing Process Equipment Manufacturing Latest Developments
- 13.14 Shaanxi Hanjiang Machine Tool
 - 13.14.1 Shaanxi Hanjiang Machine Tool Company Information
 - 13.14.2 Shaanxi Hanjiang Machine Tool Ball Screws for Robotics Product Portfolios and Specifications
 - 13.14.3 Shaanxi Hanjiang Machine Tool Ball Screws for Robotics Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 Shaanxi Hanjiang Machine Tool Main Business Overview
 - 13.14.5 Shaanxi Hanjiang Machine Tool Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Ball Screws for Robotics Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Ball Screws for Robotics Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of ≤ 8 mm

Table 4. Major Players of > 8 –16 mm

Table 5. Major Players of > 16 –25 mm

Table 6. Major Players of > 25 –40 mm

Table 7. Major Players of > 40 mm

Table 8. Global Ball Screws for Robotics Sales by Type (2021-2026) & (Units)

Table 9. Global Ball Screws for Robotics Sales Market Share by Type (2021-2026)

Table 10. Global Ball Screws for Robotics Revenue by Type (2021-2026) & (\$ million)

Table 11. Global Ball Screws for Robotics Revenue Market Share by Type (2021-2026)

Table 12. Global Ball Screws for Robotics Sale Price by Type (2021-2026) & (US\$/Unit)

Table 13. Major Players of ≤ 5 mm

Table 14. Major Players of > 5 –10 mm

Table 15. Major Players of > 10 –20 mm

Table 16. Major Players of > 20 –40 mm

Table 17. Major Players of > 40 mm

Table 18. Global Ball Screws for Robotics Sales by Lead (2021-2026) & (Units)

Table 19. Global Ball Screws for Robotics Sales Market Share by Lead (2021-2026)

Table 20. Global Ball Screws for Robotics Revenue by Lead (2021-2026) & (\$ million)

Table 21. Global Ball Screws for Robotics Revenue Market Share by Lead (2021-2026)

Table 22. Global Ball Screws for Robotics Sale Price by Lead (2021-2026) & (US\$/Unit)

Table 23. Major Players of Ground Ball Screws

Table 24. Major Players of Rolled Ball Screws

Table 25. Major Players of Other-Process Ball Screws

Table 26. Global Ball Screws for Robotics Sales by Manufacturing Process (2021-2026) & (Units)

Table 27. Global Ball Screws for Robotics Sales Market Share by Manufacturing Process (2021-2026)

Table 28. Global Ball Screws for Robotics Revenue by Manufacturing Process (2021-2026) & (\$ million)

Table 29. Global Ball Screws for Robotics Revenue Market Share by Manufacturing Process (2021-2026)

Table 30. Global Ball Screws for Robotics Sale Price by Manufacturing Process (2021-2026) & (US\$/Unit)

Table 31. Major Players of C0–C2

Table 32. Major Players of C3–C5

Table 33. Major Players of C7–C10

Table 34. Global Ball Screws for Robotics Sales by Accuracy Grade (2021-2026) & (Units)

Table 35. Global Ball Screws for Robotics Sales Market Share by Accuracy Grade (2021-2026)

Table 36. Global Ball Screws for Robotics Revenue by Accuracy Grade (2021-2026) & (\$ million)

Table 37. Global Ball Screws for Robotics Revenue Market Share by Accuracy Grade (2021-2026)

Table 38. Global Ball Screws for Robotics Sale Price by Accuracy Grade (2021-2026) & (US\$/Unit)

Table 39. Global Ball Screws for Robotics Sale by Application (2021-2026) & (Units)

Table 40. Global Ball Screws for Robotics Sale Market Share by Application (2021-2026)

Table 41. Global Ball Screws for Robotics Revenue by Application (2021-2026) & (\$ million)

Table 42. Global Ball Screws for Robotics Revenue Market Share by Application (2021-2026)

Table 43. Global Ball Screws for Robotics Sale Price by Application (2021-2026) & (US\$/Unit)

Table 44. Global Ball Screws for Robotics Sales by Company (2021-2026) & (Units)

Table 45. Global Ball Screws for Robotics Sales Market Share by Company (2021-2026)

Table 46. Global Ball Screws for Robotics Revenue by Company (2021-2026) & (\$ millions)

Table 47. Global Ball Screws for Robotics Revenue Market Share by Company (2021-2026)

Table 48. Global Ball Screws for Robotics Sale Price by Company (2021-2026) & (US\$/Unit)

Table 49. Key Manufacturers Ball Screws for Robotics Producing Area Distribution and Sales Area

Table 50. Players Ball Screws for Robotics Products Offered

Table 51. Ball Screws for Robotics Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 52. New Products and Potential Entrants

Table 53. Market M&A Activity & Strategy

Table 54. Global Ball Screws for Robotics Sales by Geographic Region (2021-2026) & (Units)

Table 55. Global Ball Screws for Robotics Sales Market Share Geographic Region (2021-2026)

Table 56. Global Ball Screws for Robotics Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 57. Global Ball Screws for Robotics Revenue Market Share by Geographic Region (2021-2026)

Table 58. Global Ball Screws for Robotics Sales by Country/Region (2021-2026) & (Units)

Table 59. Global Ball Screws for Robotics Sales Market Share by Country/Region (2021-2026)

Table 60. Global Ball Screws for Robotics Revenue by Country/Region (2021-2026) & (\$ millions)

Table 61. Global Ball Screws for Robotics Revenue Market Share by Country/Region (2021-2026)

Table 62. Americas Ball Screws for Robotics Sales by Country (2021-2026) & (Units)

Table 63. Americas Ball Screws for Robotics Sales Market Share by Country (2021-2026)

Table 64. Americas Ball Screws for Robotics Revenue by Country (2021-2026) & (\$ millions)

Table 65. Americas Ball Screws for Robotics Sales by Type (2021-2026) & (Units)

Table 66. Americas Ball Screws for Robotics Sales by Application (2021-2026) & (Units)

Table 67. APAC Ball Screws for Robotics Sales by Region (2021-2026) & (Units)

Table 68. APAC Ball Screws for Robotics Sales Market Share by Region (2021-2026)

Table 69. APAC Ball Screws for Robotics Revenue by Region (2021-2026) & (\$ millions)

Table 70. APAC Ball Screws for Robotics Sales by Type (2021-2026) & (Units)

Table 71. APAC Ball Screws for Robotics Sales by Application (2021-2026) & (Units)

Table 72. Europe Ball Screws for Robotics Sales by Country (2021-2026) & (Units)

Table 73. Europe Ball Screws for Robotics Revenue by Country (2021-2026) & (\$ millions)

Table 74. Europe Ball Screws for Robotics Sales by Type (2021-2026) & (Units)

Table 75. Europe Ball Screws for Robotics Sales by Application (2021-2026) & (Units)

Table 76. Middle East & Africa Ball Screws for Robotics Sales by Country (2021-2026) & (Units)

Table 77. Middle East & Africa Ball Screws for Robotics Revenue Market Share by Country (2021-2026)

Table 78. Middle East & Africa Ball Screws for Robotics Sales by Type (2021-2026) & (Units)

Table 79. Middle East & Africa Ball Screws for Robotics Sales by Application (2021-2026) & (Units)

Table 80. Key Market Drivers & Growth Opportunities of Ball Screws for Robotics

Table 81. Key Market Challenges & Risks of Ball Screws for Robotics

Table 82. Key Industry Trends of Ball Screws for Robotics

Table 83. Ball Screws for Robotics Raw Material

Table 84. Key Suppliers of Raw Materials

Table 85. Ball Screws for Robotics Distributors List

Table 86. Ball Screws for Robotics Customer List

Table 87. Global Ball Screws for Robotics Sales Forecast by Region (2027-2032) & (Units)

Table 88. Global Ball Screws for Robotics Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 89. Americas Ball Screws for Robotics Sales Forecast by Country (2027-2032) & (Units)

Table 90. Americas Ball Screws for Robotics Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 91. APAC Ball Screws for Robotics Sales Forecast by Region (2027-2032) & (Units)

Table 92. APAC Ball Screws for Robotics Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 93. Europe Ball Screws for Robotics Sales Forecast by Country (2027-2032) & (Units)

Table 94. Europe Ball Screws for Robotics Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 95. Middle East & Africa Ball Screws for Robotics Sales Forecast by Country (2027-2032) & (Units)

Table 96. Middle East & Africa Ball Screws for Robotics Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 97. Global Ball Screws for Robotics Sales Forecast by Type (2027-2032) & (Units)

Table 98. Global Ball Screws for Robotics Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 99. Global Ball Screws for Robotics Sales Forecast by Application (2027-2032) & (Units)

Table 100. Global Ball Screws for Robotics Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 101. THK Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors

Table 102. THK Ball Screws for Robotics Product Portfolios and Specifications

Table 103. THK Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 104. THK Main Business

Table 105. THK Latest Developments

Table 106. NSK Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors

Table 107. NSK Ball Screws for Robotics Product Portfolios and Specifications

Table 108. NSK Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 109. NSK Main Business

Table 110. NSK Latest Developments

Table 111. HIWIN Technologies Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors

Table 112. HIWIN Technologies Ball Screws for Robotics Product Portfolios and Specifications

Table 113. HIWIN Technologies Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 114. HIWIN Technologies Main Business

Table 115. HIWIN Technologies Latest Developments

Table 116. Bosch Rexroth Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors

Table 117. Bosch Rexroth Ball Screws for Robotics Product Portfolios and Specifications

Table 118. Bosch Rexroth Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 119. Bosch Rexroth Main Business

Table 120. Bosch Rexroth Latest Developments

Table 121. Schaeffler Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors

Table 122. Schaeffler Ball Screws for Robotics Product Portfolios and Specifications

Table 123. Schaeffler Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 124. Schaeffler Main Business

Table 125. Schaeffler Latest Developments

Table 126. Kuroda Precision Industries Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors

Table 127. Kuroda Precision Industries Ball Screws for Robotics Product Portfolios and Specifications
Table 128. Kuroda Precision Industries Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 129. Kuroda Precision Industries Main Business
Table 130. Kuroda Precision Industries Latest Developments
Table 131. KSS Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors
Table 132. KSS Ball Screws for Robotics Product Portfolios and Specifications
Table 133. KSS Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 134. KSS Main Business
Table 135. KSS Latest Developments
Table 136. TBI Motion Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors
Table 137. TBI Motion Ball Screws for Robotics Product Portfolios and Specifications
Table 138. TBI Motion Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 139. TBI Motion Main Business
Table 140. TBI Motion Latest Developments
Table 141. PMI Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors
Table 142. PMI Ball Screws for Robotics Product Portfolios and Specifications
Table 143. PMI Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 144. PMI Main Business
Table 145. PMI Latest Developments
Table 146. August Steinmeyer Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors
Table 147. August Steinmeyer Ball Screws for Robotics Product Portfolios and Specifications
Table 148. August Steinmeyer Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
Table 149. August Steinmeyer Main Business
Table 150. August Steinmeyer Latest Developments
Table 151. Thomson Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors
Table 152. Thomson Ball Screws for Robotics Product Portfolios and Specifications
Table 153. Thomson Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price

(US\$/Unit) and Gross Margin (2021-2026)

Table 154. Thomson Main Business

Table 155. Thomson Latest Developments

Table 156. Shandong Best Precision Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors

Table 157. Shandong Best Precision Ball Screws for Robotics Product Portfolios and Specifications

Table 158. Shandong Best Precision Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 159. Shandong Best Precision Main Business

Table 160. Shandong Best Precision Latest Developments

Table 161. Nanjing Process Equipment Manufacturing Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors

Table 162. Nanjing Process Equipment Manufacturing Ball Screws for Robotics Product Portfolios and Specifications

Table 163. Nanjing Process Equipment Manufacturing Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 164. Nanjing Process Equipment Manufacturing Main Business

Table 165. Nanjing Process Equipment Manufacturing Latest Developments

Table 166. Shaanxi Hanjiang Machine Tool Basic Information, Ball Screws for Robotics Manufacturing Base, Sales Area and Its Competitors

Table 167. Shaanxi Hanjiang Machine Tool Ball Screws for Robotics Product Portfolios and Specifications

Table 168. Shaanxi Hanjiang Machine Tool Ball Screws for Robotics Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 169. Shaanxi Hanjiang Machine Tool Main Business

Table 170. Shaanxi Hanjiang Machine Tool Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Ball Screws for Robotics
- Figure 2. Ball Screws for Robotics Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Ball Screws for Robotics Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Ball Screws for Robotics Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Ball Screws for Robotics Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Ball Screws for Robotics Sales Market Share by Country/Region (2025)
- Figure 10. Ball Screws for Robotics Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of ?8 mm
- Figure 12. Product Picture of >8–16 mm
- Figure 13. Product Picture of >16–25 mm
- Figure 14. Product Picture of >25–40 mm
- Figure 15. Product Picture of >40 mm
- Figure 16. Global Ball Screws for Robotics Sales Market Share by Type in 2026
- Figure 17. Global Ball Screws for Robotics Revenue Market Share by Type (2021-2026)
- Figure 18. Product Picture of ?5 mm
- Figure 19. Product Picture of >5–10 mm
- Figure 20. Product Picture of >10–20 mm
- Figure 21. Product Picture of >20–40 mm
- Figure 22. Product Picture of >40 mm
- Figure 23. Global Ball Screws for Robotics Sales Market Share by Lead in 2026
- Figure 24. Global Ball Screws for Robotics Revenue Market Share by Lead (2021-2026)
- Figure 25. Product Picture of Ground Ball Screws
- Figure 26. Product Picture of Rolled Ball Screws
- Figure 27. Product Picture of Other-Process Ball Screws
- Figure 28. Global Ball Screws for Robotics Sales Market Share by Manufacturing Process in 2026
- Figure 29. Global Ball Screws for Robotics Revenue Market Share by Manufacturing Process (2021-2026)
- Figure 30. Product Picture of C0–C2
- Figure 31. Product Picture of C3–C5

Figure 32. Product Picture of C7–C10

Figure 33. Global Ball Screws for Robotics Sales Market Share by Accuracy Grade in 2026

Figure 34. Global Ball Screws for Robotics Revenue Market Share by Accuracy Grade (2021-2026)

Figure 35. Ball Screws for Robotics Consumed in Automotive Manufacturing

Figure 36. Global Ball Screws for Robotics Market: Automotive Manufacturing (2021-2026) & (Units)

Figure 37. Ball Screws for Robotics Consumed in Electronics and Semiconductor Manufacturing

Figure 38. Global Ball Screws for Robotics Market: Electronics and Semiconductor Manufacturing (2021-2026) & (Units)

Figure 39. Ball Screws for Robotics Consumed in General Industrial Manufacturing

Figure 40. Global Ball Screws for Robotics Market: General Industrial Manufacturing (2021-2026) & (Units)

Figure 41. Ball Screws for Robotics Consumed in Warehousing and Logistics

Figure 42. Global Ball Screws for Robotics Market: Warehousing and Logistics (2021-2026) & (Units)

Figure 43. Ball Screws for Robotics Consumed in Medical and Healthcare

Figure 44. Global Ball Screws for Robotics Market: Medical and Healthcare (2021-2026) & (Units)

Figure 45. Ball Screws for Robotics Consumed in Others

Figure 46. Global Ball Screws for Robotics Market: Others (2021-2026) & (Units)

Figure 47. Global Ball Screws for Robotics Sale Market Share by Application (2025)

Figure 48. Global Ball Screws for Robotics Revenue Market Share by Application in 2025

Figure 49. Ball Screws for Robotics Sales by Company in 2025 (Units)

Figure 50. Global Ball Screws for Robotics Sales Market Share by Company in 2025

Figure 51. Ball Screws for Robotics Revenue by Company in 2025 (\$ millions)

Figure 52. Global Ball Screws for Robotics Revenue Market Share by Company in 2025

Figure 53. Global Ball Screws for Robotics Sales Market Share by Geographic Region (2021-2026)

Figure 54. Global Ball Screws for Robotics Revenue Market Share by Geographic Region in 2025

Figure 55. Americas Ball Screws for Robotics Sales 2021-2026 (Units)

Figure 56. Americas Ball Screws for Robotics Revenue 2021-2026 (\$ millions)

Figure 57. APAC Ball Screws for Robotics Sales 2021-2026 (Units)

Figure 58. APAC Ball Screws for Robotics Revenue 2021-2026 (\$ millions)

Figure 59. Europe Ball Screws for Robotics Sales 2021-2026 (Units)

- Figure 60. Europe Ball Screws for Robotics Revenue 2021-2026 (\$ millions)
- Figure 61. Middle East & Africa Ball Screws for Robotics Sales 2021-2026 (Units)
- Figure 62. Middle East & Africa Ball Screws for Robotics Revenue 2021-2026 (\$ millions)
- Figure 63. Americas Ball Screws for Robotics Sales Market Share by Country in 2025
- Figure 64. Americas Ball Screws for Robotics Revenue Market Share by Country (2021-2026)
- Figure 65. Americas Ball Screws for Robotics Sales Market Share by Type (2021-2026)
- Figure 66. Americas Ball Screws for Robotics Sales Market Share by Application (2021-2026)
- Figure 67. United States Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Canada Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Mexico Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 70. Brazil Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 71. APAC Ball Screws for Robotics Sales Market Share by Region in 2025
- Figure 72. APAC Ball Screws for Robotics Revenue Market Share by Region (2021-2026)
- Figure 73. APAC Ball Screws for Robotics Sales Market Share by Type (2021-2026)
- Figure 74. APAC Ball Screws for Robotics Sales Market Share by Application (2021-2026)
- Figure 75. China Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 76. Japan Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 77. South Korea Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Southeast Asia Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 79. India Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 80. Australia Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 81. China Taiwan Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 82. Europe Ball Screws for Robotics Sales Market Share by Country in 2025
- Figure 83. Europe Ball Screws for Robotics Revenue Market Share by Country (2021-2026)
- Figure 84. Europe Ball Screws for Robotics Sales Market Share by Type (2021-2026)
- Figure 85. Europe Ball Screws for Robotics Sales Market Share by Application (2021-2026)
- Figure 86. Germany Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 87. France Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)

- Figure 88. UK Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 89. Italy Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 90. Russia Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 91. Middle East & Africa Ball Screws for Robotics Sales Market Share by Country (2021-2026)
- Figure 92. Middle East & Africa Ball Screws for Robotics Sales Market Share by Type (2021-2026)
- Figure 93. Middle East & Africa Ball Screws for Robotics Sales Market Share by Application (2021-2026)
- Figure 94. Egypt Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 95. South Africa Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 96. Israel Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 97. Turkey Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 98. GCC Countries Ball Screws for Robotics Revenue Growth 2021-2026 (\$ millions)
- Figure 99. Manufacturing Cost Structure Analysis of Ball Screws for Robotics in 2026
- Figure 100. Manufacturing Process Analysis of Ball Screws for Robotics
- Figure 101. Industry Chain Structure of Ball Screws for Robotics
- Figure 102. Channels of Distribution
- Figure 103. Global Ball Screws for Robotics Sales Market Forecast by Region (2027-2032)
- Figure 104. Global Ball Screws for Robotics Revenue Market Share Forecast by Region (2027-2032)
- Figure 105. Global Ball Screws for Robotics Sales Market Share Forecast by Type (2027-2032)
- Figure 106. Global Ball Screws for Robotics Revenue Market Share Forecast by Type (2027-2032)
- Figure 107. Global Ball Screws for Robotics Sales Market Share Forecast by Application (2027-2032)
- Figure 108. Global Ball Screws for Robotics Revenue Market Share Forecast by Application (2027-2032)

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