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Global Ball Screws for Robotics Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ball Screws for Robotics market size is expected to reach $ 872 million by 2032, rising at a market growth of 13.5% CAGR during the forecast period (2026-2032).

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

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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

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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.

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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

This report studies the global Ball Screws for Robotics production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Ball Screws for Robotics total production and demand, 2021-2032, (Units)

Global Ball Screws for Robotics total production value, 2021-2032, (USD Million)

Global Ball Screws for Robotics production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Ball Screws for Robotics consumption by region & country, CAGR, 2021-2032 & (Units)

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U.S. VS China: Ball Screws for Robotics domestic production, consumption, key domestic manufacturers and share

Global Ball Screws for Robotics production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Ball Screws for Robotics production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Ball Screws for Robotics production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Ball Screws for Robotics 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, NSK, HIWIN Technologies, Bosch Rexroth, Schaeffler, Kuroda Precision Industries, KSS, TBI Motion, PMI, August Steinmeyer, 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 Ball Screws for Robotics market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (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 Ball Screws for Robotics Market, By Region:

United States

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China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Ball Screws for Robotics Market, Segmentation by Type:

?8 mm

>8–16 mm

>16–25 mm

>25–40 mm

>40 mm

Global Ball Screws for Robotics Market, Segmentation by Lead:

?5 mm

>5–10 mm

>10–20 mm

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>20–40 mm

>40 mm

Global Ball Screws for Robotics Market, Segmentation by Manufacturing Process:

Ground Ball Screws

Rolled Ball Screws

Other-Process Ball Screws

Global Ball Screws for Robotics Market, Segmentation by Accuracy Grade:

C0–C2

C3–C5

C7–C10

Global Ball Screws for Robotics Market, Segmentation by Application:

Automotive Manufacturing

Electronics and Semiconductor Manufacturing

General Industrial Manufacturing

Warehousing and Logistics

Medical and Healthcare

Others

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Companies Profiled:

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 Answered

1. How big is the global Ball Screws for Robotics market?
2. What is the demand of the global Ball Screws for Robotics market?
3. What is the year over year growth of the global Ball Screws for Robotics market?

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4. What is the total value of the global Ball Screws for Robotics market?
5. Who are the Major Players in the global Ball Screws for Robotics market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Ball Screws for Robotics Production Value by Manufacturer (2021-2026)

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

+357 96 030922
info@marketpublishers.com

4.4.2 United States Based Manufacturers Ball Screws for Robotics Production Value (2021-2026)
4.4.3 United States Based Manufacturers Ball Screws for Robotics Production (2021-2026)
4.5 China Based Ball Screws for Robotics Manufacturers and Market Share
4.5.1 China Based Ball Screws for Robotics Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Ball Screws for Robotics Production Value (2021-2026)
4.5.3 China Based Manufacturers Ball Screws for Robotics Production (2021-2026)
4.6 Rest of World Based Ball Screws for Robotics Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Ball Screws for Robotics Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Ball Screws for Robotics Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Ball Screws for Robotics Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Ball Screws for Robotics Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 ?8 mm
5.2.2 >8–16 mm
5.2.3 >16–25 mm
5.2.4 >25–40 mm
5.2.5 >40 mm
5.3 Market Segment by Type
5.3.1 World Ball Screws for Robotics Production by Type (2021-2032)
5.3.2 World Ball Screws for Robotics Production Value by Type (2021-2032)
5.3.3 World Ball Screws for Robotics Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY LEAD

6.1 World Ball Screws for Robotics Market Size Overview by Lead: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Lead

+357 96 030922
info@marketpublishers.com

6.2.1 ?5 mm
6.2.2 >5–10 mm
6.2.3 >10–20 mm
6.2.4 >20–40 mm
6.2.5 >40 mm
6.3 Market Segment by Lead
6.3.1 World Ball Screws for Robotics Production by Lead (2021-2032)
6.3.2 World Ball Screws for Robotics Production Value by Lead (2021-2032)
6.3.3 World Ball Screws for Robotics Average Price by Lead (2021-2032)

7 MARKET ANALYSIS BY MANUFACTURING PROCESS

7.1 World Ball Screws for Robotics Market Size Overview by Manufacturing Process: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Manufacturing Process
7.2.1 Ground Ball Screws
7.2.2 Rolled Ball Screws
7.2.3 Other-Process Ball Screws
7.3 Market Segment by Manufacturing Process
7.3.1 World Ball Screws for Robotics Production by Manufacturing Process (2021-2032)
7.3.2 World Ball Screws for Robotics Production Value by Manufacturing Process (2021-2032)
7.3.3 World Ball Screws for Robotics Average Price by Manufacturing Process (2021-2032)

8 MARKET ANALYSIS BY ACCURACY GRADE

8.1 World Ball Screws for Robotics Market Size Overview by Accuracy Grade: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Accuracy Grade
8.2.1 C0–C2
8.2.2 C3–C5
8.2.3 C7–C10
8.3 Market Segment by Accuracy Grade
8.3.1 World Ball Screws for Robotics Production by Accuracy Grade (2021-2032)
8.3.2 World Ball Screws for Robotics Production Value by Accuracy Grade (2021-2032)
8.3.3 World Ball Screws for Robotics Average Price by Accuracy Grade (2021-2032)

+357 96 030922
info@marketpublishers.com

9 MARKET ANALYSIS BY APPLICATION

9.1 World Ball Screws for Robotics Market Size Overview by Application: 2021 VS 2025 VS 2032
9.2 Segment Introduction by Application
  9.2.1 Automotive Manufacturing
  9.2.2 Electronics and Semiconductor Manufacturing
  9.2.3 General Industrial Manufacturing
  9.2.4 Warehousing and Logistics
  9.2.5 Medical and Healthcare
  9.2.6 Others
9.3 Market Segment by Application
  9.3.1 World Ball Screws for Robotics Production by Application (2021-2032)
  9.3.2 World Ball Screws for Robotics Production Value by Application (2021-2032)
  9.3.3 World Ball Screws for Robotics Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 THK
  10.1.1 THK Details
  10.1.2 THK Major Business
  10.1.3 THK Ball Screws for Robotics Product and Services
  10.1.4 THK Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
  10.1.5 THK Recent Developments/Updates
  10.1.6 THK Competitive Strengths & Weaknesses
10.2 NSK
  10.2.1 NSK Details
  10.2.2 NSK Major Business
  10.2.3 NSK Ball Screws for Robotics Product and Services
  10.2.4 NSK Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
  10.2.5 NSK Recent Developments/Updates
  10.2.6 NSK Competitive Strengths & Weaknesses
10.3 HIWIN Technologies
  10.3.1 HIWIN Technologies Details
  10.3.2 HIWIN Technologies Major Business
  10.3.3 HIWIN Technologies Ball Screws for Robotics Product and Services

+357 96 030922
info@marketpublishers.com

10.3.4 HIWIN Technologies Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.3.5 HIWIN Technologies Recent Developments/Updates
10.3.6 HIWIN Technologies Competitive Strengths & Weaknesses
10.4 Bosch Rexroth
10.4.1 Bosch Rexroth Details
10.4.2 Bosch Rexroth Major Business
10.4.3 Bosch Rexroth Ball Screws for Robotics Product and Services
10.4.4 Bosch Rexroth Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.4.5 Bosch Rexroth Recent Developments/Updates
10.4.6 Bosch Rexroth Competitive Strengths & Weaknesses
10.5 Schaeffler
10.5.1 Schaeffler Details
10.5.2 Schaeffler Major Business
10.5.3 Schaeffler Ball Screws for Robotics Product and Services
10.5.4 Schaeffler Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.5.5 Schaeffler Recent Developments/Updates
10.5.6 Schaeffler Competitive Strengths & Weaknesses
10.6 Kuroda Precision Industries
10.6.1 Kuroda Precision Industries Details
10.6.2 Kuroda Precision Industries Major Business
10.6.3 Kuroda Precision Industries Ball Screws for Robotics Product and Services
10.6.4 Kuroda Precision Industries Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.6.5 Kuroda Precision Industries Recent Developments/Updates
10.6.6 Kuroda Precision Industries Competitive Strengths & Weaknesses
10.7 KSS
10.7.1 KSS Details
10.7.2 KSS Major Business
10.7.3 KSS Ball Screws for Robotics Product and Services
10.7.4 KSS Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.7.5 KSS Recent Developments/Updates
10.7.6 KSS Competitive Strengths & Weaknesses
10.8 TBI Motion
10.8.1 TBI Motion Details
10.8.2 TBI Motion Major Business

+357 96 030922
info@marketpublishers.com

10.8.3 TBI Motion Ball Screws for Robotics Product and Services
10.8.4 TBI Motion Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.8.5 TBI Motion Recent Developments/Updates
10.8.6 TBI Motion Competitive Strengths & Weaknesses
10.9 PMI
10.9.1 PMI Details
10.9.2 PMI Major Business
10.9.3 PMI Ball Screws for Robotics Product and Services
10.9.4 PMI Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.9.5 PMI Recent Developments/Updates
10.9.6 PMI Competitive Strengths & Weaknesses
10.10 August Steinmeyer
10.10.1 August Steinmeyer Details
10.10.2 August Steinmeyer Major Business
10.10.3 August Steinmeyer Ball Screws for Robotics Product and Services
10.10.4 August Steinmeyer Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.10.5 August Steinmeyer Recent Developments/Updates
10.10.6 August Steinmeyer Competitive Strengths & Weaknesses
10.11 Thomson
10.11.1 Thomson Details
10.11.2 Thomson Major Business
10.11.3 Thomson Ball Screws for Robotics Product and Services
10.11.4 Thomson Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.11.5 Thomson Recent Developments/Updates
10.11.6 Thomson Competitive Strengths & Weaknesses
10.12 Shandong Best Precision
10.12.1 Shandong Best Precision Details
10.12.2 Shandong Best Precision Major Business
10.12.3 Shandong Best Precision Ball Screws for Robotics Product and Services
10.12.4 Shandong Best Precision Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.12.5 Shandong Best Precision Recent Developments/Updates
10.12.6 Shandong Best Precision Competitive Strengths & Weaknesses
10.13 Nanjing Process Equipment Manufacturing
10.13.1 Nanjing Process Equipment Manufacturing Details

+357 96 030922
info@marketpublishers.com

10.13.2 Nanjing Process Equipment Manufacturing Major Business
10.13.3 Nanjing Process Equipment Manufacturing Ball Screws for Robotics Product and Services
10.13.4 Nanjing Process Equipment Manufacturing Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.13.5 Nanjing Process Equipment Manufacturing Recent Developments/Updates
10.13.6 Nanjing Process Equipment Manufacturing Competitive Strengths & Weaknesses
10.14 Shaanxi Hanjiang Machine Tool
10.14.1 Shaanxi Hanjiang Machine Tool Details
10.14.2 Shaanxi Hanjiang Machine Tool Major Business
10.14.3 Shaanxi Hanjiang Machine Tool Ball Screws for Robotics Product and Services
10.14.4 Shaanxi Hanjiang Machine Tool Ball Screws for Robotics Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.14.5 Shaanxi Hanjiang Machine Tool Recent Developments/Updates
10.14.6 Shaanxi Hanjiang Machine Tool Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Ball Screws for Robotics Industry Chain
11.2 Ball Screws for Robotics Upstream Analysis
11.2.1 Ball Screws for Robotics Core Raw Materials
11.2.2 Main Manufacturers of Ball Screws for Robotics Core Raw Materials
11.3 Midstream Analysis
11.4 Downstream Analysis
11.5 Ball Screws for Robotics Production Mode
11.6 Ball Screws for Robotics Procurement Model
11.7 Ball Screws for Robotics Industry Sales Model and Sales Channels
11.7.1 Ball Screws for Robotics Sales Model
11.7.2 Ball Screws for Robotics Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology
13.2 Research Process and Data Source
13.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. World Ball Screws for Robotics Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Ball Screws for Robotics Production Value by Region (2021-2026) & (USD Million)
Table 3. World Ball Screws for Robotics Production Value by Region (2027-2032) & (USD Million)
Table 4. World Ball Screws for Robotics Production Value Market Share by Region (2021-2026)
Table 5. World Ball Screws for Robotics Production Value Market Share by Region (2027-2032)
Table 6. World Ball Screws for Robotics Production by Region (2021-2026) & (Units)
Table 7. World Ball Screws for Robotics Production by Region (2027-2032) & (Units)
Table 8. World Ball Screws for Robotics Production Market Share by Region (2021-2026)
Table 9. World Ball Screws for Robotics Production Market Share by Region (2027-2032)
Table 10. World Ball Screws for Robotics Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World Ball Screws for Robotics Average Price by Region (2027-2032) & (US$/Unit)
Table 12. Ball Screws for Robotics Major Market Trends
Table 13. World Ball Screws for Robotics Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
Table 14. World Ball Screws for Robotics Consumption by Region (2021-2026) & (Units)
Table 15. World Ball Screws for Robotics Consumption Forecast by Region (2027-2032) & (Units)
Table 16. World Ball Screws for Robotics Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Ball Screws for Robotics Producers in 2025
Table 18. World Ball Screws for Robotics Production by Manufacturer (2021-2026) & (Units)
Table 19. Production Market Share of Key Ball Screws for Robotics Producers in 2025
Table 20. World Ball Screws for Robotics Average Price by Manufacturer (2021-2026) &

+357 96 030922
info@marketpublishers.com

(US$/Unit)
Table 21. Global Ball Screws for Robotics Company Evaluation Quadrant
Table 22. World Ball Screws for Robotics Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Ball Screws for Robotics Production Site of Key Manufacturer
Table 24. Ball Screws for Robotics Market: Company Product Type Footprint
Table 25. Ball Screws for Robotics Market: Company Product Application Footprint
Table 26. Ball Screws for Robotics Competitive Factors
Table 27. Ball Screws for Robotics New Entrant and Capacity Expansion Plans
Table 28. Ball Screws for Robotics Mergers & Acquisitions Activity
Table 29. United States VS China Ball Screws for Robotics Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Ball Screws for Robotics Production Comparison, (2021 & 2025 & 2032) & (Units)
Table 31. United States VS China Ball Screws for Robotics Consumption Comparison, (2021 & 2025 & 2032) & (Units)
Table 32. United States Based Ball Screws for Robotics Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Ball Screws for Robotics Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Ball Screws for Robotics Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Ball Screws for Robotics Production (2021-2026) & (Units)
Table 36. United States Based Manufacturers Ball Screws for Robotics Production Market Share (2021-2026)
Table 37. China Based Ball Screws for Robotics Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Ball Screws for Robotics Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Ball Screws for Robotics Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Ball Screws for Robotics Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers Ball Screws for Robotics Production Market Share (2021-2026)
Table 42. Rest of World Based Ball Screws for Robotics Manufacturers, Headquarters and Production Site (State, Country)

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Table 43. Rest of World Based Manufacturers Ball Screws for Robotics Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Ball Screws for Robotics Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Ball Screws for Robotics Production, (2021-2026) & (Units)
Table 46. Rest of World Based Manufacturers Ball Screws for Robotics Production Market Share (2021-2026)
Table 47. World Ball Screws for Robotics Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Ball Screws for Robotics Production by Type (2021-2026) & (Units)
Table 49. World Ball Screws for Robotics Production by Type (2027-2032) & (Units)
Table 50. World Ball Screws for Robotics Production Value by Type (2021-2026) & (USD Million)
Table 51. World Ball Screws for Robotics Production Value by Type (2027-2032) & (USD Million)
Table 52. World Ball Screws for Robotics Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World Ball Screws for Robotics Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World Ball Screws for Robotics Production Value by Lead, (USD Million), 2021 & 2025 & 2032
Table 55. World Ball Screws for Robotics Production by Lead (2021-2026) & (Units)
Table 56. World Ball Screws for Robotics Production by Lead (2027-2032) & (Units)
Table 57. World Ball Screws for Robotics Production Value by Lead (2021-2026) & (USD Million)
Table 58. World Ball Screws for Robotics Production Value by Lead (2027-2032) & (USD Million)
Table 59. World Ball Screws for Robotics Average Price by Lead (2021-2026) & (US$/Unit)
Table 60. World Ball Screws for Robotics Average Price by Lead (2027-2032) & (US$/Unit)
Table 61. World Ball Screws for Robotics Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032
Table 62. World Ball Screws for Robotics Production by Manufacturing Process (2021-2026) & (Units)
Table 63. World Ball Screws for Robotics Production by Manufacturing Process (2027-2032) & (Units)
Table 64. World Ball Screws for Robotics Production Value by Manufacturing Process

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(2021-2026) & (USD Million)
Table 65. World Ball Screws for Robotics Production Value by Manufacturing Process (2027-2032) & (USD Million)
Table 66. World Ball Screws for Robotics Average Price by Manufacturing Process (2021-2026) & (US$/Unit)
Table 67. World Ball Screws for Robotics Average Price by Manufacturing Process (2027-2032) & (US$/Unit)
Table 68. World Ball Screws for Robotics Production Value by Accuracy Grade, (USD Million), 2021 & 2025 & 2032
Table 69. World Ball Screws for Robotics Production by Accuracy Grade (2021-2026) & (Units)
Table 70. World Ball Screws for Robotics Production by Accuracy Grade (2027-2032) & (Units)
Table 71. World Ball Screws for Robotics Production Value by Accuracy Grade (2021-2026) & (USD Million)
Table 72. World Ball Screws for Robotics Production Value by Accuracy Grade (2027-2032) & (USD Million)
Table 73. World Ball Screws for Robotics Average Price by Accuracy Grade (2021-2026) & (US$/Unit)
Table 74. World Ball Screws for Robotics Average Price by Accuracy Grade (2027-2032) & (US$/Unit)
Table 75. World Ball Screws for Robotics Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 76. World Ball Screws for Robotics Production by Application (2021-2026) & (Units)
Table 77. World Ball Screws for Robotics Production by Application (2027-2032) & (Units)
Table 78. World Ball Screws for Robotics Production Value by Application (2021-2026) & (USD Million)
Table 79. World Ball Screws for Robotics Production Value by Application (2027-2032) & (USD Million)
Table 80. World Ball Screws for Robotics Average Price by Application (2021-2026) & (US$/Unit)
Table 81. World Ball Screws for Robotics Average Price by Application (2027-2032) & (US$/Unit)
Table 82. THK Basic Information, Manufacturing Base and Competitors
Table 83. THK Major Business
Table 84. THK Ball Screws for Robotics Product and Services
Table 85. THK Ball Screws for Robotics Production (Units), Price (US$/Unit), Production

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Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 86. THK Recent Developments/Updates
Table 87. THK Competitive Strengths & Weaknesses
Table 88. NSK Basic Information, Manufacturing Base and Competitors
Table 89. NSK Major Business
Table 90. NSK Ball Screws for Robotics Product and Services
Table 91. NSK Ball Screws for Robotics Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 92. NSK Recent Developments/Updates
Table 93. NSK Competitive Strengths & Weaknesses
Table 94. HIWIN Technologies Basic Information, Manufacturing Base and Competitors
Table 95. HIWIN Technologies Major Business
Table 96. HIWIN Technologies Ball Screws for Robotics Product and Services
Table 97. HIWIN Technologies Ball Screws for Robotics Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 98. HIWIN Technologies Recent Developments/Updates
Table 99. HIWIN Technologies Competitive Strengths & Weaknesses
Table 100. Bosch Rexroth Basic Information, Manufacturing Base and Competitors
Table 101. Bosch Rexroth Major Business
Table 102. Bosch Rexroth Ball Screws for Robotics Product and Services
Table 103. Bosch Rexroth Ball Screws for Robotics Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 104. Bosch Rexroth Recent Developments/Updates
Table 105. Bosch Rexroth Competitive Strengths & Weaknesses
Table 106. Schaeffler Basic Information, Manufacturing Base and Competitors
Table 107. Schaeffler Major Business
Table 108. Schaeffler Ball Screws for Robotics Product and Services
Table 109. Schaeffler Ball Screws for Robotics Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 110. Schaeffler Recent Developments/Updates
Table 111. Schaeffler Competitive Strengths & Weaknesses
Table 112. Kuroda Precision Industries Basic Information, Manufacturing Base and Competitors
Table 113. Kuroda Precision Industries Major Business
Table 114. Kuroda Precision Industries Ball Screws for Robotics Product and Services
Table 115. Kuroda Precision Industries Ball Screws for Robotics Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share

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(2021-2026)
Table 116. Kuroda Precision Industries Recent Developments/Updates
Table 117. Kuroda Precision Industries Competitive Strengths & Weaknesses
Table 118. KSS Basic Information, Manufacturing Base and Competitors
Table 119. KSS Major Business
Table 120. KSS Ball Screws for Robotics Product and Services
Table 121. KSS Ball Screws for Robotics Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 122. KSS Recent Developments/Updates
Table 123. KSS Competitive Strengths & Weaknesses
Table 124. TBI Motion Basic Information, Manufacturing Base and Competitors
Table 125. TBI Motion Major Business
Table 126. TBI Motion Ball Screws for Robotics Product and Services
Table 127. TBI Motion Ball Screws for Robotics Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 128. TBI Motion Recent Developments/Updates
Table 129. TBI Motion Competitive Strengths & Weaknesses
Table 130. PMI Basic Information, Manufacturing Base and Competitors
Table 131. PMI Major Business
Table 132. PMI Ball Screws for Robotics Product and Services
Table 133. PMI Ball Screws for Robotics Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 134. PMI Recent Developments/Updates
Table 135. PMI Competitive Strengths & Weaknesses
Table 136. August Steinmeyer Basic Information, Manufacturing Base and Competitors
Table 137. August Steinmeyer Major Business
Table 138. August Steinmeyer Ball Screws for Robotics Product and Services
Table 139. August Steinmeyer Ball Screws for Robotics Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 140. August Steinmeyer Recent Developments/Updates
Table 141. August Steinmeyer Competitive Strengths & Weaknesses
Table 142. Thomson Basic Information, Manufacturing Base and Competitors
Table 143. Thomson Major Business
Table 144. Thomson Ball Screws for Robotics Product and Services
Table 145. Thomson Ball Screws for Robotics Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 146. Thomson Recent Developments/Updates
Table 147. Thomson Competitive Strengths & Weaknesses

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Table 148. Shandong Best Precision Basic Information, Manufacturing Base and Competitors
Table 149. Shandong Best Precision Major Business
Table 150. Shandong Best Precision Ball Screws for Robotics Product and Services
Table 151. Shandong Best Precision Ball Screws for Robotics Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 152. Shandong Best Precision Recent Developments/Updates
Table 153. Shandong Best Precision Competitive Strengths & Weaknesses
Table 154. Nanjing Process Equipment Manufacturing Basic Information, Manufacturing Base and Competitors
Table 155. Nanjing Process Equipment Manufacturing Major Business
Table 156. Nanjing Process Equipment Manufacturing Ball Screws for Robotics Product and Services
Table 157. Nanjing Process Equipment Manufacturing Ball Screws for Robotics Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 158. Nanjing Process Equipment Manufacturing Recent Developments/Updates
Table 159. Nanjing Process Equipment Manufacturing Competitive Strengths & Weaknesses
Table 160. Shaanxi Hanjiang Machine Tool Basic Information, Manufacturing Base and Competitors
Table 161. Shaanxi Hanjiang Machine Tool Major Business
Table 162. Shaanxi Hanjiang Machine Tool Ball Screws for Robotics Product and Services
Table 163. Shaanxi Hanjiang Machine Tool Ball Screws for Robotics Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 164. Shaanxi Hanjiang Machine Tool Recent Developments/Updates
Table 165. Shaanxi Hanjiang Machine Tool Competitive Strengths & Weaknesses
Table 166. Global Key Players of Ball Screws for Robotics Upstream (Raw Materials)
Table 167. Global Ball Screws for Robotics Typical Customers
Table 168. Ball Screws for Robotics Typical Distributors

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List Of Figures

LIST OF FIGURES

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

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Figure 27. United States VS China: Ball Screws for Robotics Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Ball Screws for Robotics Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers Ball Screws for Robotics Production Market Share 2025
Figure 30. China Based Manufacturers Ball Screws for Robotics Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Ball Screws for Robotics Production Market Share 2025
Figure 32. World Ball Screws for Robotics Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World Ball Screws for Robotics Production Value Market Share by Type in 2025
Figure 34. ?8 mm
Figure 35. >8–16 mm
Figure 36. >16–25 mm
Figure 37. >25–40 mm
Figure 38. >40 mm
Figure 39. World Ball Screws for Robotics Production Market Share by Type (2021-2032)
Figure 40. World Ball Screws for Robotics Production Value Market Share by Type (2021-2032)
Figure 41. World Ball Screws for Robotics Average Price by Type (2021-2032) & (US$/Unit)
Figure 42. World Ball Screws for Robotics Production Value by Lead, (USD Million), 2021 & 2025 & 2032
Figure 43. World Ball Screws for Robotics Production Value Market Share by Lead in 2025
Figure 44. ?5 mm
Figure 45. >5–10 mm
Figure 46. >10–20 mm
Figure 47. >20–40 mm
Figure 48. >40 mm
Figure 49. World Ball Screws for Robotics Production Market Share by Lead (2021-2032)
Figure 50. World Ball Screws for Robotics Production Value Market Share by Lead (2021-2032)
Figure 51. World Ball Screws for Robotics Average Price by Lead (2021-2032) &

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(US$/Unit)
Figure 52. World Ball Screws for Robotics Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032
Figure 53. World Ball Screws for Robotics Production Value Market Share by Manufacturing Process in 2025
Figure 54. Ground Ball Screws
Figure 55. Rolled Ball Screws
Figure 56. Other-Process Ball Screws
Figure 57. World Ball Screws for Robotics Production Market Share by Manufacturing Process (2021-2032)
Figure 58. World Ball Screws for Robotics Production Value Market Share by Manufacturing Process (2021-2032)
Figure 59. World Ball Screws for Robotics Average Price by Manufacturing Process (2021-2032) & (US$/Unit)
Figure 60. World Ball Screws for Robotics Production Value by Accuracy Grade, (USD Million), 2021 & 2025 & 2032
Figure 61. World Ball Screws for Robotics Production Value Market Share by Accuracy Grade in 2025
Figure 62. C0–C2
Figure 63. C3–C5
Figure 64. C7–C10
Figure 65. World Ball Screws for Robotics Production Market Share by Accuracy Grade (2021-2032)
Figure 66. World Ball Screws for Robotics Production Value Market Share by Accuracy Grade (2021-2032)
Figure 67. World Ball Screws for Robotics Average Price by Accuracy Grade (2021-2032) & (US$/Unit)
Figure 68. World Ball Screws for Robotics Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 69. World Ball Screws for Robotics Production Value Market Share by Application in 2025
Figure 70. Automotive Manufacturing
Figure 71. Electronics and Semiconductor Manufacturing
Figure 72. General Industrial Manufacturing
Figure 73. Warehousing and Logistics
Figure 74. Medical and Healthcare
Figure 75. Others
Figure 76. World Ball Screws for Robotics Production Market Share by Application (2021-2032)

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Figure 77. World Ball Screws for Robotics Production Value Market Share by Application (2021-2032)
Figure 78. World Ball Screws for Robotics Average Price by Application (2021-2032) & (US$/Unit)
Figure 79. Ball Screws for Robotics Industry Chain
Figure 80. Ball Screws for Robotics Procurement Model
Figure 81. Ball Screws for Robotics Sales Model
Figure 82. Ball Screws for Robotics Sales Channels, Direct Sales, and Distribution
Figure 83. Methodology
Figure 84. Research Process and Data Source

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