

Global Precision Ground Ball Screws Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Precision Ground Ball Screws competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Precision ground ball screws are ultra-high-accuracy linear motion components in which the screw shaft raceways and ball nut raceways are produced through precision thread grinding after heat treatment, enabling sub-micron positioning accuracy, extremely low backlash, high rigidity, excellent smoothness, and long service life, making them essential in high-end CNC machine tools, semiconductor equipment, precision robotics, aerospace actuators, and metrology instruments requiring tight tolerances and exceptional repeatability. The precision ground ball screw industry chain begins upstream with high-purity alloy steel, bearing steel bars, precision grinding wheels, tungsten-carbide tooling, ceramic balls, heat-treatment services and advanced metrology equipment, continues midstream with specialized producers that perform heat treatment, precision thread grinding, ultra-fine finishing, nut machining, ball sorting, preloading and dynamic accuracy testing under clean conditions, and extends downstream to CNC machine tool OEMs, semiconductor equipment manufacturers, robotics integrators, aerospace and medical system builders, and precision instrument suppliers who demand ultra-high accuracy, long service life, rigidity and repeatability for mission-critical, high-value equipment. Major ongoing and planned projects include precision grinding capacity expansions by Japanese, European and Taiwanese leaders to support semiconductor and aerospace demand, high-precision machining and metrology line upgrades in China for localization of C1-C3 grade ball screws, new semiconductor-focused motion-control component factories in Korea and Southeast Asia, automation-driven production enhancements for ball sorting, inspection and preload assembly, dedicated manufacturing cells for high-speed and low-noise

precision ball screws, and R&D programs targeting next-generation high-rigidity, long-stroke, high-speed ground screws specifically designed for advanced 5-axis CNC machines, surgical robots and wafer-processing stages. 2024 Global Market sales Volume: 13 million units, Average Global Market Price: 92 USD per unit, Market Average Gross Profit Margin: 20%. The precision ground ball screws market is driven by strong growth in semiconductor manufacturing, high-precision CNC machine tools, robotics, aerospace, and medical equipment requiring sub-micron motion performance. The market sits at the top tier of the global linear motion industry, where stringent accuracy, quality consistency and ultra-smooth motion differentiate suppliers with advanced grinding and metrology capabilities from those focusing on mid-range products. Japan and Europe remain technological leaders due to decades of investment in ultra-precision grinding, thermal compensation engineering and metrology, while Taiwan and China are rapidly advancing but still face challenges in producing consistent C0-C2 grade products at global performance levels. Regionally, Asia-Pacific continues to represent the largest demand base due to CNC machine tool density and semiconductor equipment expansion, while North America and Europe consume high-value precision screws for aerospace, defense, robotics and molding applications. Growth opportunities come from the increasing adoption of 5-axis CNC, higher-speed machining, semiconductor wafer size expansion, and precision automation in EV manufacturing, medical robotics and optical instrumentation. Meanwhile, risks include semiconductor investment cyclicality, high capital intensity in precision grinding equipment, long OEM qualification cycles, and competition from direct-drive linear motors in certain cleanroom and ultra-high-speed applications. Key market trends include miniaturization of precision ball screws for semiconductor motion platforms, the spread of high-rigidity and high-speed designs for demanding CNC applications, development of lower-noise recirculation structures, and the integration of advanced coatings for wear resistance and thermal stability. The competitive landscape is characterized by very high entry barriers due to required precision, advanced metrology systems, and strict quality assurance processes, resulting in a concentrated market dominated by a few Japanese, German and Taiwanese leaders with emerging Chinese players improving rapidly.

The global Precision Ground Ball Screws market size was estimated at USD 1196.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 4.30% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Precision Ground Ball Screws market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging

development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Precision Ground Ball Screws market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Precision Ground Ball Screws market.

Global Precision Ground Ball Screws Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

NSK

Hiwin

THK

Schaeffler

Bosch Rexroth

PMI
Nidec Sankyo
TBI MOTION
Tsubaki Nakashima
Kuroda
Altra Industrial Motion
KSS Co.,Ltd.
JTEKT Machine System
ISSOKU

Market Segmentation (by Type)

Ultra-precision (C1?C3)
Precision (C4?C5)

Market Segmentation (by Application)

Industrial Machinery & Automation Equipment
CNC and Metalworking Machine
Automotive
Medical Equipment
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value
In-depth analysis of the Precision Ground Ball Screws Market
Overview of the regional outlook of the Precision Ground Ball Screws Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Precision Ground Ball Screws Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Precision Ground Ball Screws, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Precision Ground Ball Screws

1.2 Key Market Segments

1.2.1 Precision Ground Ball Screws Segment by Type

1.2.2 Precision Ground Ball Screws Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 PRECISION GROUND BALL SCREWS MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Precision Ground Ball Screws Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Precision Ground Ball Screws Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 PRECISION GROUND BALL SCREWS MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Precision Ground Ball Screws Product Life Cycle

3.3 Global Precision Ground Ball Screws Sales by Manufacturers (2020-2025)

3.4 Global Precision Ground Ball Screws Revenue Market Share by Manufacturers (2020-2025)

3.5 Precision Ground Ball Screws Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Precision Ground Ball Screws Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Precision Ground Ball Screws Market Competitive Situation and Trends

3.8.1 Precision Ground Ball Screws Market Concentration Rate

3.8.2 Global 5 and 10 Largest Precision Ground Ball Screws Players Market Share by

Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 PRECISION GROUND BALL SCREWS INDUSTRY CHAIN ANALYSIS

4.1 Precision Ground Ball Screws Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF PRECISION GROUND BALL SCREWS MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Precision Ground Ball Screws Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Precision Ground Ball Screws

Market

5.7 ESG Ratings of Leading Companies

6 PRECISION GROUND BALL SCREWS MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Precision Ground Ball Screws Sales Market Share by Type (2020-2025)

6.3 Global Precision Ground Ball Screws Market Size by Type (2020-2025)

6.4 Global Precision Ground Ball Screws Price by Type (2020-2025)

7 PRECISION GROUND BALL SCREWS MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Precision Ground Ball Screws Market Sales by Application (2020-2025)
- 7.3 Global Precision Ground Ball Screws Market Size (M USD) by Application (2020-2025)
- 7.4 Global Precision Ground Ball Screws Sales Growth Rate by Application (2020-2025)

8 PRECISION GROUND BALL SCREWS MARKET SALES BY REGION

- 8.1 Global Precision Ground Ball Screws Sales by Region
 - 8.1.1 Global Precision Ground Ball Screws Sales by Region
 - 8.1.2 Global Precision Ground Ball Screws Sales Market Share by Region
- 8.2 Global Precision Ground Ball Screws Market Size by Region
 - 8.2.1 Global Precision Ground Ball Screws Market Size by Region
 - 8.2.2 Global Precision Ground Ball Screws Market Size by Region
- 8.3 North America
 - 8.3.1 North America Precision Ground Ball Screws Sales by Country
 - 8.3.2 North America Precision Ground Ball Screws Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Precision Ground Ball Screws Sales by Country
 - 8.4.2 Europe Precision Ground Ball Screws Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Precision Ground Ball Screws Sales by Region
 - 8.5.2 Asia Pacific Precision Ground Ball Screws Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Precision Ground Ball Screws Sales by Country

8.6.2 South America Precision Ground Ball Screws Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Precision Ground Ball Screws Sales by Region

8.7.2 Middle East and Africa Precision Ground Ball Screws Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 PRECISION GROUND BALL SCREWS MARKET PRODUCTION BY REGION

9.1 Global Production of Precision Ground Ball Screws by Region(2020-2025)

9.2 Global Precision Ground Ball Screws Revenue Market Share by Region (2020-2025)

9.3 Global Precision Ground Ball Screws Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Precision Ground Ball Screws Production

9.4.1 North America Precision Ground Ball Screws Production Growth Rate (2020-2025)

9.4.2 North America Precision Ground Ball Screws Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Precision Ground Ball Screws Production

9.5.1 Europe Precision Ground Ball Screws Production Growth Rate (2020-2025)

9.5.2 Europe Precision Ground Ball Screws Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Precision Ground Ball Screws Production (2020-2025)

9.6.1 Japan Precision Ground Ball Screws Production Growth Rate (2020-2025)

9.6.2 Japan Precision Ground Ball Screws Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Precision Ground Ball Screws Production (2020-2025)

9.7.1 China Precision Ground Ball Screws Production Growth Rate (2020-2025)

9.7.2 China Precision Ground Ball Screws Production, Revenue, Price and Gross

Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 NSK

- 10.1.1 NSK Basic Information
- 10.1.2 NSK Precision Ground Ball Screws Product Overview
- 10.1.3 NSK Precision Ground Ball Screws Product Market Performance
- 10.1.4 NSK Business Overview
- 10.1.5 NSK SWOT Analysis
- 10.1.6 NSK Recent Developments

10.2 Hiwin

- 10.2.1 Hiwin Basic Information
- 10.2.2 Hiwin Precision Ground Ball Screws Product Overview
- 10.2.3 Hiwin Precision Ground Ball Screws Product Market Performance
- 10.2.4 Hiwin Business Overview
- 10.2.5 Hiwin SWOT Analysis
- 10.2.6 Hiwin Recent Developments

10.3 THK

- 10.3.1 THK Basic Information
- 10.3.2 THK Precision Ground Ball Screws Product Overview
- 10.3.3 THK Precision Ground Ball Screws Product Market Performance
- 10.3.4 THK Business Overview
- 10.3.5 THK SWOT Analysis
- 10.3.6 THK Recent Developments

10.4 Schaeffler

- 10.4.1 Schaeffler Basic Information
- 10.4.2 Schaeffler Precision Ground Ball Screws Product Overview
- 10.4.3 Schaeffler Precision Ground Ball Screws Product Market Performance
- 10.4.4 Schaeffler Business Overview
- 10.4.5 Schaeffler Recent Developments

10.5 Bosch Rexroth

- 10.5.1 Bosch Rexroth Basic Information
- 10.5.2 Bosch Rexroth Precision Ground Ball Screws Product Overview
- 10.5.3 Bosch Rexroth Precision Ground Ball Screws Product Market Performance
- 10.5.4 Bosch Rexroth Business Overview
- 10.5.5 Bosch Rexroth Recent Developments

10.6 PMI

- 10.6.1 PMI Basic Information

- 10.6.2 PMI Precision Ground Ball Screws Product Overview
- 10.6.3 PMI Precision Ground Ball Screws Product Market Performance
- 10.6.4 PMI Business Overview
- 10.6.5 PMI Recent Developments
- 10.7 Nidec Sankyo
 - 10.7.1 Nidec Sankyo Basic Information
 - 10.7.2 Nidec Sankyo Precision Ground Ball Screws Product Overview
 - 10.7.3 Nidec Sankyo Precision Ground Ball Screws Product Market Performance
 - 10.7.4 Nidec Sankyo Business Overview
 - 10.7.5 Nidec Sankyo Recent Developments
- 10.8 TBI MOTION
 - 10.8.1 TBI MOTION Basic Information
 - 10.8.2 TBI MOTION Precision Ground Ball Screws Product Overview
 - 10.8.3 TBI MOTION Precision Ground Ball Screws Product Market Performance
 - 10.8.4 TBI MOTION Business Overview
 - 10.8.5 TBI MOTION Recent Developments
- 10.9 Tsubaki Nakashima
 - 10.9.1 Tsubaki Nakashima Basic Information
 - 10.9.2 Tsubaki Nakashima Precision Ground Ball Screws Product Overview
 - 10.9.3 Tsubaki Nakashima Precision Ground Ball Screws Product Market Performance
 - 10.9.4 Tsubaki Nakashima Business Overview
 - 10.9.5 Tsubaki Nakashima Recent Developments
- 10.10 Kuroda
 - 10.10.1 Kuroda Basic Information
 - 10.10.2 Kuroda Precision Ground Ball Screws Product Overview
 - 10.10.3 Kuroda Precision Ground Ball Screws Product Market Performance
 - 10.10.4 Kuroda Business Overview
 - 10.10.5 Kuroda Recent Developments
- 10.11 Altra Industrial Motion
 - 10.11.1 Altra Industrial Motion Basic Information
 - 10.11.2 Altra Industrial Motion Precision Ground Ball Screws Product Overview
 - 10.11.3 Altra Industrial Motion Precision Ground Ball Screws Product Market Performance
 - 10.11.4 Altra Industrial Motion Business Overview
 - 10.11.5 Altra Industrial Motion Recent Developments
- 10.12 KSS Co.,Ltd.
 - 10.12.1 KSS Co.,Ltd. Basic Information
 - 10.12.2 KSS Co.,Ltd. Precision Ground Ball Screws Product Overview
 - 10.12.3 KSS Co.,Ltd. Precision Ground Ball Screws Product Market Performance

- 10.12.4 KSS Co.,Ltd. Business Overview
- 10.12.5 KSS Co.,Ltd. Recent Developments
- 10.13 JTEKT Machine System
 - 10.13.1 JTEKT Machine System Basic Information
 - 10.13.2 JTEKT Machine System Precision Ground Ball Screws Product Overview
 - 10.13.3 JTEKT Machine System Precision Ground Ball Screws Product Market Performance
 - 10.13.4 JTEKT Machine System Business Overview
 - 10.13.5 JTEKT Machine System Recent Developments
- 10.14 ISSOKU
 - 10.14.1 ISSOKU Basic Information
 - 10.14.2 ISSOKU Precision Ground Ball Screws Product Overview
 - 10.14.3 ISSOKU Precision Ground Ball Screws Product Market Performance
 - 10.14.4 ISSOKU Business Overview
 - 10.14.5 ISSOKU Recent Developments

11 PRECISION GROUND BALL SCREWS MARKET FORECAST BY REGION

- 11.1 Global Precision Ground Ball Screws Market Size Forecast
- 11.2 Global Precision Ground Ball Screws Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Precision Ground Ball Screws Market Size Forecast by Country
 - 11.2.3 Asia Pacific Precision Ground Ball Screws Market Size Forecast by Region
 - 11.2.4 South America Precision Ground Ball Screws Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Precision Ground Ball Screws by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Precision Ground Ball Screws Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Precision Ground Ball Screws by Type (2026-2035)
 - 12.1.2 Global Precision Ground Ball Screws Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Precision Ground Ball Screws by Type (2026-2035)
- 12.2 Global Precision Ground Ball Screws Market Forecast by Application (2026-2035)
 - 12.2.1 Global Precision Ground Ball Screws Sales (K Units) Forecast by Application
 - 12.2.2 Global Precision Ground Ball Screws Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Precision Ground Ball Screws Market Size by Type (M USD)

Table 4. Global Precision Ground Ball Screws Market Size by Application

Table 5. Precision Ground Ball Screws Market Size Comparison by Region (M USD)

Table 6. Global Precision Ground Ball Screws Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Precision Ground Ball Screws Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Precision Ground Ball Screws Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Precision Ground Ball Screws Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Precision Ground Ball Screws as of 2025)

Table 11. Global Market Precision Ground Ball Screws Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Precision Ground Ball Screws Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Precision Ground Ball Screws Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Precision Ground Ball Screws Sales by Type (K Units)

Table 27. Global Precision Ground Ball Screws Market Size by Type (M USD)

Table 28. Global Precision Ground Ball Screws Sales (K Units) by Type (2020-2025)

Table 29. Global Precision Ground Ball Screws Sales Market Share by Type (2020-2025)

Table 30. Global Precision Ground Ball Screws Market Size (M USD) by Type (2020-2025)

Table 31. Global Precision Ground Ball Screws Market Share by Type (2020-2025)

Table 32. Global Precision Ground Ball Screws Price (USD/Unit) by Type (2020-2025)

Table 33. Global Precision Ground Ball Screws Sales (K Units) by Application

Table 34. Global Precision Ground Ball Screws Market Size by Application

Table 35. Global Precision Ground Ball Screws Sales by Application (2020-2025) & (K Units)

Table 36. Global Precision Ground Ball Screws Sales Market Share by Application (2020-2025)

Table 37. Global Precision Ground Ball Screws Market Size by Application (2020-2025) & (M USD)

Table 38. Global Precision Ground Ball Screws Market Share by Application (2020-2025)

Table 39. Global Precision Ground Ball Screws Sales Growth Rate by Application (2020-2025)

Table 40. Global Precision Ground Ball Screws Sales by Region (2020-2025) & (K Units)

Table 41. Global Precision Ground Ball Screws Sales Market Share by Region (2020-2025)

Table 42. Global Precision Ground Ball Screws Market Size by Region (2020-2025) & (M USD)

Table 43. Global Precision Ground Ball Screws Market Size by Region (2020-2025)

Table 44. North America Precision Ground Ball Screws Sales by Country (2020-2025) & (K Units)

Table 45. North America Precision Ground Ball Screws Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Precision Ground Ball Screws Sales by Country (2020-2025) & (K Units)

Table 47. Europe Precision Ground Ball Screws Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Precision Ground Ball Screws Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Precision Ground Ball Screws Market Size by Region (2020-2025) & (M USD)

Table 50. South America Precision Ground Ball Screws Sales by Country (2020-2025)

& (K Units)

Table 51. South America Precision Ground Ball Screws Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Precision Ground Ball Screws Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Precision Ground Ball Screws Market Size by Region (2020-2025) & (M USD)

Table 54. Global Precision Ground Ball Screws Production (K Units) by Region(2020-2025)

Table 55. Global Precision Ground Ball Screws Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Precision Ground Ball Screws Revenue Market Share by Region (2020-2025)

Table 57. Global Precision Ground Ball Screws Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Precision Ground Ball Screws Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Precision Ground Ball Screws Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Precision Ground Ball Screws Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Precision Ground Ball Screws Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. NSK Basic Information

Table 63. NSK Precision Ground Ball Screws Product Overview

Table 64. NSK Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. NSK Business Overview

Table 66. NSK SWOT Analysis

Table 67. NSK Recent Developments

Table 68. Hiwin Basic Information

Table 69. Hiwin Precision Ground Ball Screws Product Overview

Table 70. Hiwin Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Hiwin Business Overview

Table 72. Hiwin SWOT Analysis

Table 73. Hiwin Recent Developments

Table 74. THK Basic Information

Table 75. THK Precision Ground Ball Screws Product Overview

- Table 76. THK Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. THK Business Overview
- Table 78. THK SWOT Analysis
- Table 79. THK Recent Developments
- Table 80. Schaeffler Basic Information
- Table 81. Schaeffler Precision Ground Ball Screws Product Overview
- Table 82. Schaeffler Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Schaeffler Business Overview
- Table 84. Schaeffler Recent Developments
- Table 85. Bosch Rexroth Basic Information
- Table 86. Bosch Rexroth Precision Ground Ball Screws Product Overview
- Table 87. Bosch Rexroth Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Bosch Rexroth Business Overview
- Table 89. Bosch Rexroth Recent Developments
- Table 90. PMI Basic Information
- Table 91. PMI Precision Ground Ball Screws Product Overview
- Table 92. PMI Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. PMI Business Overview
- Table 94. PMI Recent Developments
- Table 95. Nidec Sankyo Basic Information
- Table 96. Nidec Sankyo Precision Ground Ball Screws Product Overview
- Table 97. Nidec Sankyo Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Nidec Sankyo Business Overview
- Table 99. Nidec Sankyo Recent Developments
- Table 100. TBI MOTION Basic Information
- Table 101. TBI MOTION Precision Ground Ball Screws Product Overview
- Table 102. TBI MOTION Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. TBI MOTION Business Overview
- Table 104. TBI MOTION Recent Developments
- Table 105. Tsubaki Nakashima Basic Information
- Table 106. Tsubaki Nakashima Precision Ground Ball Screws Product Overview
- Table 107. Tsubaki Nakashima Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 108. Tsubaki Nakashima Business Overview
- Table 109. Tsubaki Nakashima Recent Developments
- Table 110. Kuroda Basic Information
- Table 111. Kuroda Precision Ground Ball Screws Product Overview
- Table 112. Kuroda Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. Kuroda Business Overview
- Table 114. Kuroda Recent Developments
- Table 115. Altra Industrial Motion Basic Information
- Table 116. Altra Industrial Motion Precision Ground Ball Screws Product Overview
- Table 117. Altra Industrial Motion Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Altra Industrial Motion Business Overview
- Table 119. Altra Industrial Motion Recent Developments
- Table 120. KSS Co.,Ltd. Basic Information
- Table 121. KSS Co.,Ltd. Precision Ground Ball Screws Product Overview
- Table 122. KSS Co.,Ltd. Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. KSS Co.,Ltd. Business Overview
- Table 124. KSS Co.,Ltd. Recent Developments
- Table 125. JTEKT Machine System Basic Information
- Table 126. JTEKT Machine System Precision Ground Ball Screws Product Overview
- Table 127. JTEKT Machine System Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. JTEKT Machine System Business Overview
- Table 129. JTEKT Machine System Recent Developments
- Table 130. ISSOKU Basic Information
- Table 131. ISSOKU Precision Ground Ball Screws Product Overview
- Table 132. ISSOKU Precision Ground Ball Screws Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. ISSOKU Business Overview
- Table 134. ISSOKU Recent Developments
- Table 135. Global Precision Ground Ball Screws Sales Forecast by Region (2026-2035) & (K Units)
- Table 136. Global Precision Ground Ball Screws Market Size Forecast by Region (2026-2035) & (M USD)
- Table 137. North America Precision Ground Ball Screws Sales Forecast by Country (2026-2035) & (K Units)
- Table 138. North America Precision Ground Ball Screws Market Size Forecast by

Country (2026-2035) & (M USD)

Table 139. Europe Precision Ground Ball Screws Sales Forecast by Country (2026-2035) & (K Units)

Table 140. Europe Precision Ground Ball Screws Market Size Forecast by Country (2026-2035) & (M USD)

Table 141. Asia Pacific Precision Ground Ball Screws Sales Forecast by Region (2026-2035) & (K Units)

Table 142. Asia Pacific Precision Ground Ball Screws Market Size Forecast by Region (2026-2035) & (M USD)

Table 143. South America Precision Ground Ball Screws Sales Forecast by Country (2026-2035) & (K Units)

Table 144. South America Precision Ground Ball Screws Market Size Forecast by Country (2026-2035) & (M USD)

Table 145. Middle East and Africa Precision Ground Ball Screws Sales Forecast by Country (2026-2035) & (Units)

Table 146. Middle East and Africa Precision Ground Ball Screws Market Size Forecast by Country (2026-2035) & (M USD)

Table 147. Global Precision Ground Ball Screws Sales Forecast by Type (2026-2035) & (K Units)

Table 148. Global Precision Ground Ball Screws Market Size Forecast by Type (2026-2035) & (M USD)

Table 149. Global Precision Ground Ball Screws Price Forecast by Type (2026-2035) & (USD/Unit)

Table 150. Global Precision Ground Ball Screws Sales (K Units) Forecast by Application (2026-2035)

Table 151. Global Precision Ground Ball Screws Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Precision Ground Ball Screws
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Precision Ground Ball Screws Market Size (M USD), 2025-2035
- Figure 5. Global Precision Ground Ball Screws Market Size (M USD) (2020-2035)
- Figure 6. Global Precision Ground Ball Screws Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Precision Ground Ball Screws Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Precision Ground Ball Screws Product Life Cycle
- Figure 13. Precision Ground Ball Screws Sales Share by Manufacturers in 2025
- Figure 14. Global Precision Ground Ball Screws Revenue Share by Manufacturers in 2025
- Figure 15. Precision Ground Ball Screws Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Precision Ground Ball Screws Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Precision Ground Ball Screws Revenue in 2025
- Figure 18. Industry Chain Map of Precision Ground Ball Screws
- Figure 19. Global Precision Ground Ball Screws Market PEST Analysis
- Figure 20. Global Precision Ground Ball Screws Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Precision Ground Ball Screws Market Share by Type
- Figure 27. Sales Market Share of Precision Ground Ball Screws by Type (2020-2025)
- Figure 28. Sales Market Share of Precision Ground Ball Screws by Type in 2025
- Figure 29. Market Share of Precision Ground Ball Screws by Type (2020-2025)
- Figure 30. Market Share of Precision Ground Ball Screws by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global Precision Ground Ball Screws Market Share by Application
- Figure 33. Global Precision Ground Ball Screws Sales Market Share by Application (2020-2025)
- Figure 34. Global Precision Ground Ball Screws Sales Market Share by Application in 2025
- Figure 35. Global Precision Ground Ball Screws Market Share by Application (2020-2025)
- Figure 36. Global Precision Ground Ball Screws Market Share by Application in 2025
- Figure 37. Global Precision Ground Ball Screws Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Precision Ground Ball Screws Sales Market Share by Region (2020-2025)
- Figure 39. Global Precision Ground Ball Screws Market Size by Region (2020-2025)
- Figure 40. North America Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Precision Ground Ball Screws Sales Market Share by Country in 2024
- Figure 43. North America Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Precision Ground Ball Screws Market Size by Country in 2024
- Figure 45. U.S. Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Precision Ground Ball Screws Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Precision Ground Ball Screws Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Precision Ground Ball Screws Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Precision Ground Ball Screws Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe Precision Ground Ball Screws Sales Market Share by Country in 2024
- Figure 53. Europe Precision Ground Ball Screws Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 54. Europe Precision Ground Ball Screws Market Size by Country in 2024

Figure 55. Germany Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Precision Ground Ball Screws Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Precision Ground Ball Screws Sales Market Share by Region in 2024

Figure 67. Asia Pacific Precision Ground Ball Screws Market Size by Region in 2024

Figure 68. China Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Precision Ground Ball Screws Sales and Growth Rate (2020-2025) &

(K Units)

Figure 75. India Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Precision Ground Ball Screws Sales and Growth Rate (K Units)

Figure 79. South America Precision Ground Ball Screws Sales Market Share by Country in 2024

Figure 80. South America Precision Ground Ball Screws Market Size and Growth Rate (M USD)

Figure 81. South America Precision Ground Ball Screws Market Size by Country in 2024

Figure 82. Brazil Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Precision Ground Ball Screws Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Precision Ground Ball Screws Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Precision Ground Ball Screws Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Precision Ground Ball Screws Market Size by Region in 2024

Figure 92. Saudi Arabia Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Precision Ground Ball Screws Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Precision Ground Ball Screws Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Precision Ground Ball Screws Production Market Share by Region (2020-2025)

Figure 103. North America Precision Ground Ball Screws Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Precision Ground Ball Screws Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Precision Ground Ball Screws Production (K Units) Growth Rate (2020-2025)

Figure 106. China Precision Ground Ball Screws Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Precision Ground Ball Screws Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Precision Ground Ball Screws Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Precision Ground Ball Screws Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Precision Ground Ball Screws Market Share Forecast by Type (2026-2035)

Figure 111. Global Precision Ground Ball Screws Sales Forecast by Application (2026-2035)

Figure 112. Global Precision Ground Ball Screws Market Share Forecast by Application (2026-2035)

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