

Global Internal Circulation Ball Screws Market Growth 2025-2031

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Abstracts

The global Internal Circulation Ball Screws market size is predicted to grow from US\$ 1036 million in 2025 to US\$ 1245 million in 2031; it is expected to grow at a CAGR of 3.1% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Internal Circulation Ball Screw is a ball screw structure in which the balls circulate inside the nut through the built-in return channel, without the need for an external return tube. After rolling in the thread track, the balls automatically return to the starting point through the return tube/cap inside the nut, forming a closed loop. This design is compact and smooth, suitable for small and medium loads and high-precision applications.

The Internal Circulation Ball Screws market has witnessed consistent growth in recent years, driven by increasing demand for precision mechanical motion systems in industries such as aerospace, automotive, medical equipment, industrial automation, and semiconductor manufacturing. Internal circulation ball screws, known for their compact design and high positional accuracy, are critical in applications where space efficiency and repeatability are essential. Their internal recirculation path offers smoother operation, lower noise levels, and reduced risk of contamination compared to external circulation types. As global manufacturing becomes increasingly automated and digitally integrated, the role of high-performance linear motion components like internal circulation ball screws has become more central. Advances in CNC machinery, robotics, and additive manufacturing also propel the adoption of these components,

creating robust demand across both developed and developing markets.

From a regional perspective, Asia-Pacific remains the dominant player in the internal circulation ball screws market, led by industrial powerhouses like China, Japan, South Korea, and Taiwan. China's expansive manufacturing base and its ongoing transition toward high-tech and high-precision industries have made it both a key producer and consumer of ball screw products. Japan, with its longstanding expertise in high-precision engineering and robotics, continues to innovate and export to other regions. Europe follows as another significant market, characterized by mature automotive and aerospace sectors and increasing investment in industrial automation, especially in Germany, Italy, and France. North America, particularly the United States, maintains a steady demand trajectory driven by innovation in defense systems, medical technology, and smart manufacturing. Meanwhile, emerging markets in Southeast Asia, Latin America, and parts of Eastern Europe are gradually increasing their participation due to growing industrialization, foreign investment, and the rise of local automation initiatives.

Market development opportunities in this segment are closely tied to the expansion of smart factories, the miniaturization of components, and the rising demand for energy-efficient and maintenance-free solutions. The growth of the semiconductor and electronics industry—particularly in Asia—presents lucrative opportunities for precision ball screw manufacturers. Additionally, the increasing deployment of collaborative robots (cobots) and electric actuators in sectors like logistics, healthcare, and food processing opens up new demand channels. There's also a strong push for environmentally friendly and lightweight materials in mechanical design, prompting R&D efforts in advanced coatings, ceramics, and composite-based ball screws. Furthermore, aftermarket services—such as maintenance, retrofitting, and lifecycle support—are becoming key revenue drivers for companies aiming to establish long-term relationships with OEMs and end-users.

However, the market is not without risks and challenges. The high precision required for internal circulation ball screws demands sophisticated manufacturing techniques and quality control, leading to high capital expenditure and entry barriers for new entrants. Market volatility in raw material prices, especially steel and specialty alloys, can impact cost structures. In addition, the industry is susceptible to economic slowdowns and cyclical fluctuations in end-use sectors like automotive and heavy machinery. Intellectual property concerns and counterfeit products, particularly in developing regions, pose further risks to brand integrity and safety standards.

LP Information, Inc. (LPI) ' newest research report, the “Internal Circulation Ball Screws

Industry Forecast” looks at past sales and reviews total world Internal Circulation Ball Screws sales in 2024, providing a comprehensive analysis by region and market sector of projected Internal Circulation Ball Screws sales for 2025 through 2031. With Internal Circulation Ball Screws sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Internal Circulation Ball Screws industry.

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

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

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

Segmentation by Type:

Precision

Roll

Segmentation by Application:

Semiconductor

Machine Tools and Injection Molding Machines

Automotive

Medical Equipment

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

THK

NSK

Hiwin

Bosch Rexroth

PMI

Tsubaki Nakashima

Regal Rexnord

KSS Co.,Ltd.

Nidec Sankyo

TBI MOTION

Kuroda

Hanjiang Machine Tool

JTEKT Machine System

ISSOKU

Jiangsu Qijian Screw Rod

NANJING Yigong

Nidec Sankyo

TBI MOTION

Kuroda

Key Questions Addressed in this Report

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

What factors are driving Internal Circulation Ball Screws market growth, globally and by region?

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

How do Internal Circulation Ball Screws market opportunities vary by end market size?

How does Internal Circulation Ball Screws break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

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

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Internal Circulation Ball Screws Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Internal Circulation Ball Screws by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Internal Circulation Ball Screws by Country/Region, 2020, 2024 & 2031
- 2.2 Internal Circulation Ball Screws Segment by Type
 - 2.2.1 Precision
 - 2.2.2 Roll
- 2.3 Internal Circulation Ball Screws Sales by Type
 - 2.3.1 Global Internal Circulation Ball Screws Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Internal Circulation Ball Screws Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Internal Circulation Ball Screws Sale Price by Type (2020-2025)
- 2.4 Internal Circulation Ball Screws Segment by Application
 - 2.4.1 Semiconductor
 - 2.4.2 Machine Tools and Injection Molding Machines
 - 2.4.3 Automotive
 - 2.4.4 Medical Equipment
 - 2.4.5 Others
- 2.5 Internal Circulation Ball Screws Sales by Application
 - 2.5.1 Global Internal Circulation Ball Screws Sale Market Share by Application (2020-2025)
 - 2.5.2 Global Internal Circulation Ball Screws Revenue and Market Share by

Application (2020-2025)

2.5.3 Global Internal Circulation Ball Screws Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Internal Circulation Ball Screws Breakdown Data by Company

3.1.1 Global Internal Circulation Ball Screws Annual Sales by Company (2020-2025)

3.1.2 Global Internal Circulation Ball Screws Sales Market Share by Company
(2020-2025)

3.2 Global Internal Circulation Ball Screws Annual Revenue by Company (2020-2025)

3.2.1 Global Internal Circulation Ball Screws Revenue by Company (2020-2025)

3.2.2 Global Internal Circulation Ball Screws Revenue Market Share by Company
(2020-2025)

3.3 Global Internal Circulation Ball Screws Sale Price by Company

3.4 Key Manufacturers Internal Circulation Ball Screws Producing Area Distribution,
Sales Area, Product Type

3.4.1 Key Manufacturers Internal Circulation Ball Screws Product Location Distribution

3.4.2 Players Internal Circulation Ball Screws Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR INTERNAL CIRCULATION BALL SCREWS BY GEOGRAPHIC REGION

4.1 World Historic Internal Circulation Ball Screws Market Size by Geographic Region
(2020-2025)

4.1.1 Global Internal Circulation Ball Screws Annual Sales by Geographic Region
(2020-2025)

4.1.2 Global Internal Circulation Ball Screws Annual Revenue by Geographic Region
(2020-2025)

4.2 World Historic Internal Circulation Ball Screws Market Size by Country/Region
(2020-2025)

4.2.1 Global Internal Circulation Ball Screws Annual Sales by Country/Region
(2020-2025)

4.2.2 Global Internal Circulation Ball Screws Annual Revenue by Country/Region
(2020-2025)

- 4.3 Americas Internal Circulation Ball Screws Sales Growth
- 4.4 APAC Internal Circulation Ball Screws Sales Growth
- 4.5 Europe Internal Circulation Ball Screws Sales Growth
- 4.6 Middle East & Africa Internal Circulation Ball Screws Sales Growth

5 AMERICAS

- 5.1 Americas Internal Circulation Ball Screws Sales by Country
 - 5.1.1 Americas Internal Circulation Ball Screws Sales by Country (2020-2025)
 - 5.1.2 Americas Internal Circulation Ball Screws Revenue by Country (2020-2025)
- 5.2 Americas Internal Circulation Ball Screws Sales by Type (2020-2025)
- 5.3 Americas Internal Circulation Ball Screws Sales by Application (2020-2025)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Internal Circulation Ball Screws Sales by Region
 - 6.1.1 APAC Internal Circulation Ball Screws Sales by Region (2020-2025)
 - 6.1.2 APAC Internal Circulation Ball Screws Revenue by Region (2020-2025)
- 6.2 APAC Internal Circulation Ball Screws Sales by Type (2020-2025)
- 6.3 APAC Internal Circulation Ball Screws Sales by Application (2020-2025)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Internal Circulation Ball Screws by Country
 - 7.1.1 Europe Internal Circulation Ball Screws Sales by Country (2020-2025)
 - 7.1.2 Europe Internal Circulation Ball Screws Revenue by Country (2020-2025)
- 7.2 Europe Internal Circulation Ball Screws Sales by Type (2020-2025)
- 7.3 Europe Internal Circulation Ball Screws Sales by Application (2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Internal Circulation Ball Screws by Country

8.1.1 Middle East & Africa Internal Circulation Ball Screws Sales by Country
(2020-2025)

8.1.2 Middle East & Africa Internal Circulation Ball Screws Revenue by Country
(2020-2025)

8.2 Middle East & Africa Internal Circulation Ball Screws Sales by Type (2020-2025)

8.3 Middle East & Africa Internal Circulation Ball Screws Sales by Application
(2020-2025)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Internal Circulation Ball Screws

10.3 Manufacturing Process Analysis of Internal Circulation Ball Screws

10.4 Industry Chain Structure of Internal Circulation Ball Screws

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

- 11.1.2 Indirect Channels
- 11.2 Internal Circulation Ball Screws Distributors
- 11.3 Internal Circulation Ball Screws Customer

12 WORLD FORECAST REVIEW FOR INTERNAL CIRCULATION BALL SCREWS BY GEOGRAPHIC REGION

- 12.1 Global Internal Circulation Ball Screws Market Size Forecast by Region
 - 12.1.1 Global Internal Circulation Ball Screws Forecast by Region (2026-2031)
 - 12.1.2 Global Internal Circulation Ball Screws Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)
- 12.5 Middle East & Africa Forecast by Country (2026-2031)
- 12.6 Global Internal Circulation Ball Screws Forecast by Type (2026-2031)
- 12.7 Global Internal Circulation Ball Screws Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

- 13.1 THK
 - 13.1.1 THK Company Information
 - 13.1.2 THK Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.1.3 THK Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.1.4 THK Main Business Overview
 - 13.1.5 THK Latest Developments
- 13.2 NSK
 - 13.2.1 NSK Company Information
 - 13.2.2 NSK Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.2.3 NSK Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.2.4 NSK Main Business Overview
 - 13.2.5 NSK Latest Developments
- 13.3 Hiwin
 - 13.3.1 Hiwin Company Information
 - 13.3.2 Hiwin Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.3.3 Hiwin Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)

- 13.3.4 Hiwin Main Business Overview
- 13.3.5 Hiwin Latest Developments
- 13.4 Bosch Rexroth
 - 13.4.1 Bosch Rexroth Company Information
 - 13.4.2 Bosch Rexroth Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.4.3 Bosch Rexroth Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.4.4 Bosch Rexroth Main Business Overview
 - 13.4.5 Bosch Rexroth Latest Developments
- 13.5 PMI
 - 13.5.1 PMI Company Information
 - 13.5.2 PMI Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.5.3 PMI Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.5.4 PMI Main Business Overview
 - 13.5.5 PMI Latest Developments
- 13.6 Tsubaki Nakashima
 - 13.6.1 Tsubaki Nakashima Company Information
 - 13.6.2 Tsubaki Nakashima Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.6.3 Tsubaki Nakashima Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 Tsubaki Nakashima Main Business Overview
 - 13.6.5 Tsubaki Nakashima Latest Developments
- 13.7 Regal Rexnord
 - 13.7.1 Regal Rexnord Company Information
 - 13.7.2 Regal Rexnord Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.7.3 Regal Rexnord Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 Regal Rexnord Main Business Overview
 - 13.7.5 Regal Rexnord Latest Developments
- 13.8 KSS Co.,Ltd.
 - 13.8.1 KSS Co.,Ltd. Company Information
 - 13.8.2 KSS Co.,Ltd. Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.8.3 KSS Co.,Ltd. Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)

- 13.8.4 KSS Co.,Ltd. Main Business Overview
- 13.8.5 KSS Co.,Ltd. Latest Developments
- 13.9 Nidec Sankyo
 - 13.9.1 Nidec Sankyo Company Information
 - 13.9.2 Nidec Sankyo Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.9.3 Nidec Sankyo Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 Nidec Sankyo Main Business Overview
 - 13.9.5 Nidec Sankyo Latest Developments
- 13.10 TBI MOTION
 - 13.10.1 TBI MOTION Company Information
 - 13.10.2 TBI MOTION Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.10.3 TBI MOTION Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.10.4 TBI MOTION Main Business Overview
 - 13.10.5 TBI MOTION Latest Developments
- 13.11 Kuroda
 - 13.11.1 Kuroda Company Information
 - 13.11.2 Kuroda Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.11.3 Kuroda Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.11.4 Kuroda Main Business Overview
 - 13.11.5 Kuroda Latest Developments
- 13.12 Hanjiang Machine Tool
 - 13.12.1 Hanjiang Machine Tool Company Information
 - 13.12.2 Hanjiang Machine Tool Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.12.3 Hanjiang Machine Tool Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.12.4 Hanjiang Machine Tool Main Business Overview
 - 13.12.5 Hanjiang Machine Tool Latest Developments
- 13.13 JTEKT Machine System
 - 13.13.1 JTEKT Machine System Company Information
 - 13.13.2 JTEKT Machine System Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.13.3 JTEKT Machine System Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)

- 13.13.4 JTEKT Machine System Main Business Overview
- 13.13.5 JTEKT Machine System Latest Developments
- 13.14 ISSOKU
 - 13.14.1 ISSOKU Company Information
 - 13.14.2 ISSOKU Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.14.3 ISSOKU Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.14.4 ISSOKU Main Business Overview
 - 13.14.5 ISSOKU Latest Developments
- 13.15 Jiangsu Qijian Screw Rod
 - 13.15.1 Jiangsu Qijian Screw Rod Company Information
 - 13.15.2 Jiangsu Qijian Screw Rod Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.15.3 Jiangsu Qijian Screw Rod Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.15.4 Jiangsu Qijian Screw Rod Main Business Overview
 - 13.15.5 Jiangsu Qijian Screw Rod Latest Developments
- 13.16 NANJING Yigong
 - 13.16.1 NANJING Yigong Company Information
 - 13.16.2 NANJING Yigong Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.16.3 NANJING Yigong Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.16.4 NANJING Yigong Main Business Overview
 - 13.16.5 NANJING Yigong Latest Developments
- 13.17 Nidec Sankyo
 - 13.17.1 Nidec Sankyo Company Information
 - 13.17.2 Nidec Sankyo Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.17.3 Nidec Sankyo Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.17.4 Nidec Sankyo Main Business Overview
 - 13.17.5 Nidec Sankyo Latest Developments
- 13.18 TBI MOTION
 - 13.18.1 TBI MOTION Company Information
 - 13.18.2 TBI MOTION Internal Circulation Ball Screws Product Portfolios and Specifications
 - 13.18.3 TBI MOTION Internal Circulation Ball Screws Sales, Revenue, Price and Gross Margin (2020-2025)

13.18.4 TBI MOTION Main Business Overview

13.18.5 TBI MOTION Latest Developments

13.19 Kuroda

13.19.1 Kuroda Company Information

13.19.2 Kuroda Internal Circulation Ball Screws Product Portfolios and Specifications

13.19.3 Kuroda Internal Circulation Ball Screws Sales, Revenue, Price and Gross
Margin (2020-2025)

13.19.4 Kuroda Main Business Overview

13.19.5 Kuroda Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Internal Circulation Ball Screws Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Internal Circulation Ball Screws Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Precision

Table 4. Major Players of Roll

Table 5. Global Internal Circulation Ball Screws Sales by Type (2020-2025) & (K Units)

Table 6. Global Internal Circulation Ball Screws Sales Market Share by Type (2020-2025)

Table 7. Global Internal Circulation Ball Screws Revenue by Type (2020-2025) & (\$ million)

Table 8. Global Internal Circulation Ball Screws Revenue Market Share by Type (2020-2025)

Table 9. Global Internal Circulation Ball Screws Sale Price by Type (2020-2025) & (US\$/Unit)

Table 10. Global Internal Circulation Ball Screws Sale by Application (2020-2025) & (K Units)

Table 11. Global Internal Circulation Ball Screws Sale Market Share by Application (2020-2025)

Table 12. Global Internal Circulation Ball Screws Revenue by Application (2020-2025) & (\$ million)

Table 13. Global Internal Circulation Ball Screws Revenue Market Share by Application (2020-2025)

Table 14. Global Internal Circulation Ball Screws Sale Price by Application (2020-2025) & (US\$/Unit)

Table 15. Global Internal Circulation Ball Screws Sales by Company (2020-2025) & (K Units)

Table 16. Global Internal Circulation Ball Screws Sales Market Share by Company (2020-2025)

Table 17. Global Internal Circulation Ball Screws Revenue by Company (2020-2025) & (\$ millions)

Table 18. Global Internal Circulation Ball Screws Revenue Market Share by Company (2020-2025)

Table 19. Global Internal Circulation Ball Screws Sale Price by Company (2020-2025) & (US\$/Unit)

Table 20. Key Manufacturers Internal Circulation Ball Screws Producing Area Distribution and Sales Area
Table 21. Players Internal Circulation Ball Screws Products Offered
Table 22. Internal Circulation Ball Screws Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 23. New Products and Potential Entrants
Table 24. Market M&A Activity & Strategy
Table 25. Global Internal Circulation Ball Screws Sales by Geographic Region (2020-2025) & (K Units)
Table 26. Global Internal Circulation Ball Screws Sales Market Share Geographic Region (2020-2025)
Table 27. Global Internal Circulation Ball Screws Revenue by Geographic Region (2020-2025) & (\$ millions)
Table 28. Global Internal Circulation Ball Screws Revenue Market Share by Geographic Region (2020-2025)
Table 29. Global Internal Circulation Ball Screws Sales by Country/Region (2020-2025) & (K Units)
Table 30. Global Internal Circulation Ball Screws Sales Market Share by Country/Region (2020-2025)
Table 31. Global Internal Circulation Ball Screws Revenue by Country/Region (2020-2025) & (\$ millions)
Table 32. Global Internal Circulation Ball Screws Revenue Market Share by Country/Region (2020-2025)
Table 33. Americas Internal Circulation Ball Screws Sales by Country (2020-2025) & (K Units)
Table 34. Americas Internal Circulation Ball Screws Sales Market Share by Country (2020-2025)
Table 35. Americas Internal Circulation Ball Screws Revenue by Country (2020-2025) & (\$ millions)
Table 36. Americas Internal Circulation Ball Screws Sales by Type (2020-2025) & (K Units)
Table 37. Americas Internal Circulation Ball Screws Sales by Application (2020-2025) & (K Units)
Table 38. APAC Internal Circulation Ball Screws Sales by Region (2020-2025) & (K Units)
Table 39. APAC Internal Circulation Ball Screws Sales Market Share by Region (2020-2025)
Table 40. APAC Internal Circulation Ball Screws Revenue by Region (2020-2025) & (\$ millions)

Table 41. APAC Internal Circulation Ball Screws Sales by Type (2020-2025) & (K Units)

Table 42. APAC Internal Circulation Ball Screws Sales by Application (2020-2025) & (K Units)

Table 43. Europe Internal Circulation Ball Screws Sales by Country (2020-2025) & (K Units)

Table 44. Europe Internal Circulation Ball Screws Revenue by Country (2020-2025) & (\$ millions)

Table 45. Europe Internal Circulation Ball Screws Sales by Type (2020-2025) & (K Units)

Table 46. Europe Internal Circulation Ball Screws Sales by Application (2020-2025) & (K Units)

Table 47. Middle East & Africa Internal Circulation Ball Screws Sales by Country (2020-2025) & (K Units)

Table 48. Middle East & Africa Internal Circulation Ball Screws Revenue Market Share by Country (2020-2025)

Table 49. Middle East & Africa Internal Circulation Ball Screws Sales by Type (2020-2025) & (K Units)

Table 50. Middle East & Africa Internal Circulation Ball Screws Sales by Application (2020-2025) & (K Units)

Table 51. Key Market Drivers & Growth Opportunities of Internal Circulation Ball Screws

Table 52. Key Market Challenges & Risks of Internal Circulation Ball Screws

Table 53. Key Industry Trends of Internal Circulation Ball Screws

Table 54. Internal Circulation Ball Screws Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Internal Circulation Ball Screws Distributors List

Table 57. Internal Circulation Ball Screws Customer List

Table 58. Global Internal Circulation Ball Screws Sales Forecast by Region (2026-2031) & (K Units)

Table 59. Global Internal Circulation Ball Screws Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 60. Americas Internal Circulation Ball Screws Sales Forecast by Country (2026-2031) & (K Units)

Table 61. Americas Internal Circulation Ball Screws Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 62. APAC Internal Circulation Ball Screws Sales Forecast by Region (2026-2031) & (K Units)

Table 63. APAC Internal Circulation Ball Screws Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 64. Europe Internal Circulation Ball Screws Sales Forecast by Country

(2026-2031) & (K Units)

Table 65. Europe Internal Circulation Ball Screws Revenue Forecast by Country
(2026-2031) & (\$ millions)

Table 66. Middle East & Africa Internal Circulation Ball Screws Sales Forecast by
Country (2026-2031) & (K Units)

Table 67. Middle East & Africa Internal Circulation Ball Screws Revenue Forecast by
Country (2026-2031) & (\$ millions)

Table 68. Global Internal Circulation Ball Screws Sales Forecast by Type (2026-2031) &
(K Units)

Table 69. Global Internal Circulation Ball Screws Revenue Forecast by Type
(2026-2031) & (\$ millions)

Table 70. Global Internal Circulation Ball Screws Sales Forecast by Application
(2026-2031) & (K Units)

Table 71. Global Internal Circulation Ball Screws Revenue Forecast by Application
(2026-2031) & (\$ millions)

Table 72. THK Basic Information, Internal Circulation Ball Screws Manufacturing Base,
Sales Area and Its Competitors

Table 73. THK Internal Circulation Ball Screws Product Portfolios and Specifications

Table 74. THK Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million),
Price (US\$/Unit) and Gross Margin (2020-2025)

Table 75. THK Main Business

Table 76. THK Latest Developments

Table 77. NSK Basic Information, Internal Circulation Ball Screws Manufacturing Base,
Sales Area and Its Competitors

Table 78. NSK Internal Circulation Ball Screws Product Portfolios and Specifications

Table 79. NSK Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million),
Price (US\$/Unit) and Gross Margin (2020-2025)

Table 80. NSK Main Business

Table 81. NSK Latest Developments

Table 82. Hiwin Basic Information, Internal Circulation Ball Screws Manufacturing Base,
Sales Area and Its Competitors

Table 83. Hiwin Internal Circulation Ball Screws Product Portfolios and Specifications

Table 84. Hiwin Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million),
Price (US\$/Unit) and Gross Margin (2020-2025)

Table 85. Hiwin Main Business

Table 86. Hiwin Latest Developments

Table 87. Bosch Rexroth Basic Information, Internal Circulation Ball Screws
Manufacturing Base, Sales Area and Its Competitors

Table 88. Bosch Rexroth Internal Circulation Ball Screws Product Portfolios and

Specifications

Table 89. Bosch Rexroth Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 90. Bosch Rexroth Main Business

Table 91. Bosch Rexroth Latest Developments

Table 92. PMI Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 93. PMI Internal Circulation Ball Screws Product Portfolios and Specifications

Table 94. PMI Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 95. PMI Main Business

Table 96. PMI Latest Developments

Table 97. Tsubaki Nakashima Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 98. Tsubaki Nakashima Internal Circulation Ball Screws Product Portfolios and Specifications

Table 99. Tsubaki Nakashima Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 100. Tsubaki Nakashima Main Business

Table 101. Tsubaki Nakashima Latest Developments

Table 102. Regal Rexnord Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 103. Regal Rexnord Internal Circulation Ball Screws Product Portfolios and Specifications

Table 104. Regal Rexnord Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 105. Regal Rexnord Main Business

Table 106. Regal Rexnord Latest Developments

Table 107. KSS Co.,Ltd. Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 108. KSS Co.,Ltd. Internal Circulation Ball Screws Product Portfolios and Specifications

Table 109. KSS Co.,Ltd. Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 110. KSS Co.,Ltd. Main Business

Table 111. KSS Co.,Ltd. Latest Developments

Table 112. Nidec Sankyo Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 113. Nidec Sankyo Internal Circulation Ball Screws Product Portfolios and

Specifications

Table 114. Nidec Sankyo Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 115. Nidec Sankyo Main Business

Table 116. Nidec Sankyo Latest Developments

Table 117. TBI MOTION Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 118. TBI MOTION Internal Circulation Ball Screws Product Portfolios and Specifications

Table 119. TBI MOTION Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 120. TBI MOTION Main Business

Table 121. TBI MOTION Latest Developments

Table 122. Kuroda Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 123. Kuroda Internal Circulation Ball Screws Product Portfolios and Specifications

Table 124. Kuroda Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 125. Kuroda Main Business

Table 126. Kuroda Latest Developments

Table 127. Hanjiang Machine Tool Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 128. Hanjiang Machine Tool Internal Circulation Ball Screws Product Portfolios and Specifications

Table 129. Hanjiang Machine Tool Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 130. Hanjiang Machine Tool Main Business

Table 131. Hanjiang Machine Tool Latest Developments

Table 132. JTEKT Machine System Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 133. JTEKT Machine System Internal Circulation Ball Screws Product Portfolios and Specifications

Table 134. JTEKT Machine System Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 135. JTEKT Machine System Main Business

Table 136. JTEKT Machine System Latest Developments

Table 137. ISSOKU Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 138. ISSOKU Internal Circulation Ball Screws Product Portfolios and

Specifications

Table 139. ISSOKU Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 140. ISSOKU Main Business

Table 141. ISSOKU Latest Developments

Table 142. Jiangsu Qijian Screw Rod Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 143. Jiangsu Qijian Screw Rod Internal Circulation Ball Screws Product Portfolios and Specifications

Table 144. Jiangsu Qijian Screw Rod Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 145. Jiangsu Qijian Screw Rod Main Business

Table 146. Jiangsu Qijian Screw Rod Latest Developments

Table 147. NANJING Yigong Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 148. NANJING Yigong Internal Circulation Ball Screws Product Portfolios and Specifications

Table 149. NANJING Yigong Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 150. NANJING Yigong Main Business

Table 151. NANJING Yigong Latest Developments

Table 152. Nidec Sankyo Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 153. Nidec Sankyo Internal Circulation Ball Screws Product Portfolios and Specifications

Table 154. Nidec Sankyo Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 155. Nidec Sankyo Main Business

Table 156. Nidec Sankyo Latest Developments

Table 157. TBI MOTION Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 158. TBI MOTION Internal Circulation Ball Screws Product Portfolios and Specifications

Table 159. TBI MOTION Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 160. TBI MOTION Main Business

Table 161. TBI MOTION Latest Developments

Table 162. Kuroda Basic Information, Internal Circulation Ball Screws Manufacturing Base, Sales Area and Its Competitors

Table 163. Kuroda Internal Circulation Ball Screws Product Portfolios and Specifications

Table 164. Kuroda Internal Circulation Ball Screws Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 165. Kuroda Main Business

Table 166. Kuroda Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Internal Circulation Ball Screws
- Figure 2. Internal Circulation Ball Screws Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Internal Circulation Ball Screws Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global Internal Circulation Ball Screws Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Internal Circulation Ball Screws Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Internal Circulation Ball Screws Sales Market Share by Country/Region (2024)
- Figure 10. Internal Circulation Ball Screws Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Precision
- Figure 12. Product Picture of Roll
- Figure 13. Global Internal Circulation Ball Screws Sales Market Share by Type in 2025
- Figure 14. Global Internal Circulation Ball Screws Revenue Market Share by Type (2020-2025)
- Figure 15. Internal Circulation Ball Screws Consumed in Semiconductor
- Figure 16. Global Internal Circulation Ball Screws Market: Semiconductor (2020-2025) & (K Units)
- Figure 17. Internal Circulation Ball Screws Consumed in Machine Tools and Injection Molding Machines
- Figure 18. Global Internal Circulation Ball Screws Market: Machine Tools and Injection Molding Machines (2020-2025) & (K Units)
- Figure 19. Internal Circulation Ball Screws Consumed in Automotive
- Figure 20. Global Internal Circulation Ball Screws Market: Automotive (2020-2025) & (K Units)
- Figure 21. Internal Circulation Ball Screws Consumed in Medical Equipment
- Figure 22. Global Internal Circulation Ball Screws Market: Medical Equipment (2020-2025) & (K Units)
- Figure 23. Internal Circulation Ball Screws Consumed in Others
- Figure 24. Global Internal Circulation Ball Screws Market: Others (2020-2025) & (K Units)

Figure 25. Global Internal Circulation Ball Screws Sale Market Share by Application (2024)

Figure 26. Global Internal Circulation Ball Screws Revenue Market Share by Application in 2025

Figure 27. Internal Circulation Ball Screws Sales by Company in 2025 (K Units)

Figure 28. Global Internal Circulation Ball Screws Sales Market Share by Company in 2025

Figure 29. Internal Circulation Ball Screws Revenue by Company in 2025 (\$ millions)

Figure 30. Global Internal Circulation Ball Screws Revenue Market Share by Company in 2025

Figure 31. Global Internal Circulation Ball Screws Sales Market Share by Geographic Region (2020-2025)

Figure 32. Global Internal Circulation Ball Screws Revenue Market Share by Geographic Region in 2025

Figure 33. Americas Internal Circulation Ball Screws Sales 2020-2025 (K Units)

Figure 34. Americas Internal Circulation Ball Screws Revenue 2020-2025 (\$ millions)

Figure 35. APAC Internal Circulation Ball Screws Sales 2020-2025 (K Units)

Figure 36. APAC Internal Circulation Ball Screws Revenue 2020-2025 (\$ millions)

Figure 37. Europe Internal Circulation Ball Screws Sales 2020-2025 (K Units)

Figure 38. Europe Internal Circulation Ball Screws Revenue 2020-2025 (\$ millions)

Figure 39. Middle East & Africa Internal Circulation Ball Screws Sales 2020-2025 (K Units)

Figure 40. Middle East & Africa Internal Circulation Ball Screws Revenue 2020-2025 (\$ millions)

Figure 41. Americas Internal Circulation Ball Screws Sales Market Share by Country in 2025

Figure 42. Americas Internal Circulation Ball Screws Revenue Market Share by Country (2020-2025)

Figure 43. Americas Internal Circulation Ball Screws Sales Market Share by Type (2020-2025)

Figure 44. Americas Internal Circulation Ball Screws Sales Market Share by Application (2020-2025)

Figure 45. United States Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 46. Canada Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 47. Mexico Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 48. Brazil Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$

millions)

Figure 49. APAC Internal Circulation Ball Screws Sales Market Share by Region in 2025

Figure 50. APAC Internal Circulation Ball Screws Revenue Market Share by Region (2020-2025)

Figure 51. APAC Internal Circulation Ball Screws Sales Market Share by Type (2020-2025)

Figure 52. APAC Internal Circulation Ball Screws Sales Market Share by Application (2020-2025)

Figure 53. China Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 54. Japan Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 55. South Korea Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 56. Southeast Asia Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 57. India Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 58. Australia Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 59. China Taiwan Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 60. Europe Internal Circulation Ball Screws Sales Market Share by Country in 2025

Figure 61. Europe Internal Circulation Ball Screws Revenue Market Share by Country (2020-2025)

Figure 62. Europe Internal Circulation Ball Screws Sales Market Share by Type (2020-2025)

Figure 63. Europe Internal Circulation Ball Screws Sales Market Share by Application (2020-2025)

Figure 64. Germany Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 65. France Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 66. UK Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 67. Italy Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 68. Russia Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 69. Middle East & Africa Internal Circulation Ball Screws Sales Market Share by Country (2020-2025)

Figure 70. Middle East & Africa Internal Circulation Ball Screws Sales Market Share by Type (2020-2025)

Figure 71. Middle East & Africa Internal Circulation Ball Screws Sales Market Share by Application (2020-2025)

Figure 72. Egypt Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 73. South Africa Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 74. Israel Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 75. Turkey Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 76. GCC Countries Internal Circulation Ball Screws Revenue Growth 2020-2025 (\$ millions)

Figure 77. Manufacturing Cost Structure Analysis of Internal Circulation Ball Screws in 2025

Figure 78. Manufacturing Process Analysis of Internal Circulation Ball Screws

Figure 79. Industry Chain Structure of Internal Circulation Ball Screws

Figure 80. Channels of Distribution

Figure 81. Global Internal Circulation Ball Screws Sales Market Forecast by Region (2026-2031)

Figure 82. Global Internal Circulation Ball Screws Revenue Market Share Forecast by Region (2026-2031)

Figure 83. Global Internal Circulation Ball Screws Sales Market Share Forecast by Type (2026-2031)

Figure 84. Global Internal Circulation Ball Screws Revenue Market Share Forecast by Type (2026-2031)

Figure 85. Global Internal Circulation Ball Screws Sales Market Share Forecast by Application (2026-2031)

Figure 86. Global Internal Circulation Ball Screws Revenue Market Share Forecast by Application (2026-2031)

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