

Global Micro Ball Screws for Dexterous Robotic Hands Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Micro Ball Screws for Dexterous Robotic Hands market size was valued at US\$ 355 million in 2025 and is forecast to a readjusted size of US\$ 997 million by 2032 with a CAGR of 15.8% during review period.

Micro ball screws for dexterous robotic hands are ultra-compact precision linear actuators designed for humanoid robot or bio-inspired dexterous hand joints. Core characteristics include high accuracy, high thrust density, low backlash, and long service life. The research objects mainly cover screws with diameters of 0-6 mm and leads of 0.5–5 mm, including fully threaded, hollow, and customized micro ball screw types. Manufacturing technologies involve precise ball circulation design, high-precision grinding, and high-rigidity bearing and nut structures. Key specifications include high repeatability, low friction, and high-frequency fatigue endurance. Key functions are enabling precise grasping and flexible manipulation in high-degree-of-freedom robot hands. Primary applications include humanoid robots, medical robots, teleoperation manipulators, and micro-automation platforms. In 2025, the global average price is approximately USD 300–600 per set, with an industry gross margin of about 45%.

The micro ball screw industry for dexterous robotic hands represents a critical segment of precision components for robotics, primarily driven by upstream high-precision materials and advanced manufacturing processes. The upstream includes high-grade steels, bearings, and precision grinding equipment, while the midstream consists of micro ball screw manufacturers and custom actuator suppliers. Downstream applications cover humanoid robots, medical robotic hands, and high-degree-of-freedom bio-inspired manipulators. Industry maturity is steadily improving, with

technological barriers focusing on miniaturization, backlash control, and uniform fatigue life, maintaining mid-to-high gross margins.

Global supply dynamics show Japanese companies leading in technology, European companies excelling in customization, and Chinese and Taiwanese enterprises rapidly entering the market. Regional supply chains are becoming more robust, with China and Taiwan increasing their share in low-to-mid caliber dexterous hand screws. Competitive landscape is concentrated around core players, while small and medium enterprises gain share through innovation and project-specific custom solutions. Industry mergers, capacity expansions, and new product launches continuously enhance supply capabilities and technological levels.

Demand is rising rapidly due to expanding robot markets and the mass production of humanoid robots, driving continuous growth in dexterous hand micro ball screw requirements. Applications extend from industrial automation to medical, teleoperation, and high-precision micro-manipulation, stimulating technical upgrades and high-end customization. Policy support for intelligent manufacturing and robotics, combined with active regional capital investment and R&D dynamics, indicates sustained high growth in the future, where innovation and product iteration will continue to strengthen market competitiveness.

This report is a detailed and comprehensive analysis for global Micro Ball Screws for Dexterous Robotic Hands market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Micro Ball Screws for Dexterous Robotic Hands market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Micro Ball Screws for Dexterous Robotic Hands market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Micro Ball Screws for Dexterous Robotic Hands market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Micro Ball Screws for Dexterous Robotic Hands market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Micro Ball Screws for Dexterous Robotic Hands

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Micro Ball Screws for Dexterous Robotic Hands market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NSK Ltd., THK Co., Ltd., KSS Co., Ltd., Nidec Corporation, Hiwin Technologies Corp., Nanjing Gongyi Equipment Manufacturing Co., Ltd., Qin Chuan Machine Tool Group Co., Ltd., Beite Technology, Best (Beisi), Hubei Kefeng Intelligent Transmission Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Micro Ball Screws for Dexterous Robotic Hands market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Standard Micro Ball Screw

Hollow Micro Ball Screw

High-load Micro Ball Screw

High-speed Micro Ball Screw

Others

Market segment by Accuracy Grade

P2-P3 Grade (Ultra-High Precision)

P4-P5 Grade (High Precision)

C3-C5 Grade (Standard Precision)

C7-C10 Grade (General Industrial)

Market segment by Screw Diameter

0–2 mm

2–4 mm

4–6 mm

Market segment by Application

Robotics Industry

Medical Device Industry

Industrial Automation Industry

Aerospace and Defense

Others

Major players covered

NSK Ltd.

THK Co., Ltd.

KSS Co., Ltd.

Nidec Corporation

Hiwin Technologies Corp.

Nanjing Gongyi Equipment Manufacturing Co., Ltd.

Qin Chuan Machine Tool Group Co., Ltd.

Beite Technology

Best (Beisi)

Hubei Kefeng Intelligent Transmission Co., Ltd.

Leadick (Tengzhan Precision)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Micro Ball Screws for Dexterous Robotic Hands product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Micro Ball Screws for Dexterous Robotic Hands, with price, sales quantity, revenue, and global market share of Micro Ball Screws for Dexterous Robotic Hands from 2021 to 2026.

Chapter 3, the Micro Ball Screws for Dexterous Robotic Hands competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Micro Ball Screws for Dexterous Robotic Hands breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Micro Ball Screws for Dexterous Robotic Hands market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Micro Ball Screws for Dexterous Robotic Hands.

Chapter 14 and 15, to describe Micro Ball Screws for Dexterous Robotic Hands sales

channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Standard Micro Ball Screw

1.3.3 Hollow Micro Ball Screw

1.3.4 High-load Micro Ball Screw

1.3.5 High-speed Micro Ball Screw

1.3.6 Others

1.4 Market Analysis by Accuracy Grade

1.4.1 Overview: Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Accuracy Grade: 2021 Versus 2025 Versus 2032

1.4.2 P2-P3 Grade (Ultra-High Precision)

1.4.3 P4-P5 Grade (High Precision)

1.4.4 C3-C5 Grade (Standard Precision)

1.4.5 C7-C10 Grade (General Industrial)

1.5 Market Analysis by Screw Diameter

1.5.1 Overview: Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Screw Diameter: 2021 Versus 2025 Versus 2032

1.5.2 0–2 mm

1.5.3 2–4 mm

1.5.4 4–6 mm

1.6 Market Analysis by Application

1.6.1 Overview: Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Robotics Industry

1.6.3 Medical Device Industry

1.6.4 Industrial Automation Industry

1.6.5 Aerospace and Defense

1.6.6 Others

1.7 Global Micro Ball Screws for Dexterous Robotic Hands Market Size & Forecast

1.7.1 Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity

(2021-2032)

1.7.3 Global Micro Ball Screws for Dexterous Robotic Hands Average Price

(2021-2032)

2 MANUFACTURERS PROFILES

2.1 NSK Ltd.

2.1.1 NSK Ltd. Details

2.1.2 NSK Ltd. Major Business

2.1.3 NSK Ltd. Micro Ball Screws for Dexterous Robotic Hands Product and Services

2.1.4 NSK Ltd. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 NSK Ltd. Recent Developments/Updates

2.2 THK Co., Ltd.

2.2.1 THK Co., Ltd. Details

2.2.2 THK Co., Ltd. Major Business

2.2.3 THK Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Product and Services

2.2.4 THK Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 THK Co., Ltd. Recent Developments/Updates

2.3 KSS Co., Ltd.

2.3.1 KSS Co., Ltd. Details

2.3.2 KSS Co., Ltd. Major Business

2.3.3 KSS Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Product and Services

2.3.4 KSS Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 KSS Co., Ltd. Recent Developments/Updates

2.4 Nidec Corporation

2.4.1 Nidec Corporation Details

2.4.2 Nidec Corporation Major Business

2.4.3 Nidec Corporation Micro Ball Screws for Dexterous Robotic Hands Product and Services

2.4.4 Nidec Corporation Micro Ball Screws for Dexterous Robotic Hands Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Nidec Corporation Recent Developments/Updates

2.5 Hiwin Technologies Corp.

2.5.1 Hiwin Technologies Corp. Details

2.5.2 Hiwin Technologies Corp. Major Business

2.5.3 Hiwin Technologies Corp. Micro Ball Screws for Dexterous Robotic Hands

Product and Services

2.5.4 Hiwin Technologies Corp. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Hiwin Technologies Corp. Recent Developments/Updates

2.6 Nanjing Gongyi Equipment Manufacturing Co., Ltd.

2.6.1 Nanjing Gongyi Equipment Manufacturing Co., Ltd. Details

2.6.2 Nanjing Gongyi Equipment Manufacturing Co., Ltd. Major Business

2.6.3 Nanjing Gongyi Equipment Manufacturing Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Product and Services

2.6.4 Nanjing Gongyi Equipment Manufacturing Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Nanjing Gongyi Equipment Manufacturing Co., Ltd. Recent Developments/Updates

2.7 Qin Chuan Machine Tool Group Co., Ltd.

2.7.1 Qin Chuan Machine Tool Group Co., Ltd. Details

2.7.2 Qin Chuan Machine Tool Group Co., Ltd. Major Business

2.7.3 Qin Chuan Machine Tool Group Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Product and Services

2.7.4 Qin Chuan Machine Tool Group Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Qin Chuan Machine Tool Group Co., Ltd. Recent Developments/Updates

2.8 Beite Technology

2.8.1 Beite Technology Details

2.8.2 Beite Technology Major Business

2.8.3 Beite Technology Micro Ball Screws for Dexterous Robotic Hands Product and Services

2.8.4 Beite Technology Micro Ball Screws for Dexterous Robotic Hands Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Beite Technology Recent Developments/Updates

2.9 Best (Beisi)

2.9.1 Best (Beisi) Details

2.9.2 Best (Beisi) Major Business

2.9.3 Best (Beisi) Micro Ball Screws for Dexterous Robotic Hands Product and Services

2.9.4 Best (Beisi) Micro Ball Screws for Dexterous Robotic Hands Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Best (Beisi) Recent Developments/Updates

2.10 Hubei Kefeng Intelligent Transmission Co., Ltd.

2.10.1 Hubei Kefeng Intelligent Transmission Co., Ltd. Details

2.10.2 Hubei Kefeng Intelligent Transmission Co., Ltd. Major Business

2.10.3 Hubei Kefeng Intelligent Transmission Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Product and Services

2.10.4 Hubei Kefeng Intelligent Transmission Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Hubei Kefeng Intelligent Transmission Co., Ltd. Recent Developments/Updates

2.11 Leadick (Tengzhan Precision)

2.11.1 Leadick (Tengzhan Precision) Details

2.11.2 Leadick (Tengzhan Precision) Major Business

2.11.3 Leadick (Tengzhan Precision) Micro Ball Screws for Dexterous Robotic Hands Product and Services

2.11.4 Leadick (Tengzhan Precision) Micro Ball Screws for Dexterous Robotic Hands Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Leadick (Tengzhan Precision) Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: MICRO BALL SCREWS FOR DEXTEROUS ROBOTIC HANDS BY MANUFACTURER

3.1 Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Manufacturer (2021-2026)

3.2 Global Micro Ball Screws for Dexterous Robotic Hands Revenue by Manufacturer (2021-2026)

3.3 Global Micro Ball Screws for Dexterous Robotic Hands Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Micro Ball Screws for Dexterous Robotic Hands by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Micro Ball Screws for Dexterous Robotic Hands Manufacturer Market Share in 2025

3.4.3 Top 6 Micro Ball Screws for Dexterous Robotic Hands Manufacturer Market Share in 2025

3.5 Micro Ball Screws for Dexterous Robotic Hands Market: Overall Company Footprint Analysis

3.5.1 Micro Ball Screws for Dexterous Robotic Hands Market: Region Footprint

3.5.2 Micro Ball Screws for Dexterous Robotic Hands Market: Company Product Type Footprint

3.5.3 Micro Ball Screws for Dexterous Robotic Hands Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Micro Ball Screws for Dexterous Robotic Hands Market Size by Region

4.1.1 Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Region (2021-2032)

4.1.2 Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Region (2021-2032)

4.1.3 Global Micro Ball Screws for Dexterous Robotic Hands Average Price by Region (2021-2032)

4.2 North America Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032)

4.3 Europe Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032)

4.4 Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032)

4.5 South America Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032)

4.6 Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2021-2032)

5.2 Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Type (2021-2032)

5.3 Global Micro Ball Screws for Dexterous Robotic Hands Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by

Application (2021-2032)

6.2 Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Application (2021-2032)

6.3 Global Micro Ball Screws for Dexterous Robotic Hands Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2021-2032)

7.2 North America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2021-2032)

7.3 North America Micro Ball Screws for Dexterous Robotic Hands Market Size by Country

7.3.1 North America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Country (2021-2032)

7.3.2 North America Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2021-2032)

8.2 Europe Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2021-2032)

8.3 Europe Micro Ball Screws for Dexterous Robotic Hands Market Size by Country

8.3.1 Europe Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Country (2021-2032)

8.3.2 Europe Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Market Size by Region

9.3.1 Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2021-2032)

10.2 South America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2021-2032)

10.3 South America Micro Ball Screws for Dexterous Robotic Hands Market Size by Country

10.3.1 South America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Country (2021-2032)

10.3.2 South America Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Market Size by Country

11.3.1 Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Micro Ball Screws for Dexterous Robotic Hands Market Drivers

12.2 Micro Ball Screws for Dexterous Robotic Hands Market Restraints

12.3 Micro Ball Screws for Dexterous Robotic Hands Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Micro Ball Screws for Dexterous Robotic Hands and Key Manufacturers

13.2 Manufacturing Costs Percentage of Micro Ball Screws for Dexterous Robotic Hands

13.3 Micro Ball Screws for Dexterous Robotic Hands Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Micro Ball Screws for Dexterous Robotic Hands Typical Distributors

14.3 Micro Ball Screws for Dexterous Robotic Hands Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Accuracy Grade, (USD Million), 2021 & 2025 & 2032

Table 3. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Screw Diameter, (USD Million), 2021 & 2025 & 2032

Table 4. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. NSK Ltd. Basic Information, Manufacturing Base and Competitors

Table 6. NSK Ltd. Major Business

Table 7. NSK Ltd. Micro Ball Screws for Dexterous Robotic Hands Product and Services

Table 8. NSK Ltd. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. NSK Ltd. Recent Developments/Updates

Table 10. THK Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 11. THK Co., Ltd. Major Business

Table 12. THK Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Product and Services

Table 13. THK Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. THK Co., Ltd. Recent Developments/Updates

Table 15. KSS Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 16. KSS Co., Ltd. Major Business

Table 17. KSS Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Product and Services

Table 18. KSS Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. KSS Co., Ltd. Recent Developments/Updates

Table 20. Nidec Corporation Basic Information, Manufacturing Base and Competitors

Table 21. Nidec Corporation Major Business

Table 22. Nidec Corporation Micro Ball Screws for Dexterous Robotic Hands Product

and Services

Table 23. Nidec Corporation Micro Ball Screws for Dexterous Robotic Hands Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Nidec Corporation Recent Developments/Updates

Table 25. Hiwin Technologies Corp. Basic Information, Manufacturing Base and Competitors

Table 26. Hiwin Technologies Corp. Major Business

Table 27. Hiwin Technologies Corp. Micro Ball Screws for Dexterous Robotic Hands Product and Services

Table 28. Hiwin Technologies Corp. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Hiwin Technologies Corp. Recent Developments/Updates

Table 30. Nanjing Gongyi Equipment Manufacturing Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 31. Nanjing Gongyi Equipment Manufacturing Co., Ltd. Major Business

Table 32. Nanjing Gongyi Equipment Manufacturing Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Product and Services

Table 33. Nanjing Gongyi Equipment Manufacturing Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Nanjing Gongyi Equipment Manufacturing Co., Ltd. Recent Developments/Updates

Table 35. Qin Chuan Machine Tool Group Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 36. Qin Chuan Machine Tool Group Co., Ltd. Major Business

Table 37. Qin Chuan Machine Tool Group Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Product and Services

Table 38. Qin Chuan Machine Tool Group Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Qin Chuan Machine Tool Group Co., Ltd. Recent Developments/Updates

Table 40. Beite Technology Basic Information, Manufacturing Base and Competitors

Table 41. Beite Technology Major Business

Table 42. Beite Technology Micro Ball Screws for Dexterous Robotic Hands Product and Services

Table 43. Beite Technology Micro Ball Screws for Dexterous Robotic Hands Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and

Market Share (2021-2026)**Table 44. Beite Technology Recent Developments/Updates****Table 45. Best (Beisi) Basic Information, Manufacturing Base and Competitors****Table 46. Best (Beisi) Major Business****Table 47. Best (Beisi) Micro Ball Screws for Dexterous Robotic Hands Product and Services****Table 48. Best (Beisi) Micro Ball Screws for Dexterous Robotic Hands Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)****Table 49. Best (Beisi) Recent Developments/Updates****Table 50. Hubei Kefeng Intelligent Transmission Co., Ltd. Basic Information, Manufacturing Base and Competitors****Table 51. Hubei Kefeng Intelligent Transmission Co., Ltd. Major Business****Table 52. Hubei Kefeng Intelligent Transmission Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Product and Services****Table 53. Hubei Kefeng Intelligent Transmission Co., Ltd. Micro Ball Screws for Dexterous Robotic Hands Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)****Table 54. Hubei Kefeng Intelligent Transmission Co., Ltd. Recent Developments/Updates****Table 55. Leadick (Tengzhan Precision) Basic Information, Manufacturing Base and Competitors****Table 56. Leadick (Tengzhan Precision) Major Business****Table 57. Leadick (Tengzhan Precision) Micro Ball Screws for Dexterous Robotic Hands Product and Services****Table 58. Leadick (Tengzhan Precision) Micro Ball Screws for Dexterous Robotic Hands Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)****Table 59. Leadick (Tengzhan Precision) Recent Developments/Updates****Table 60. Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Manufacturer (2021-2026) & (Units)****Table 61. Global Micro Ball Screws for Dexterous Robotic Hands Revenue by Manufacturer (2021-2026) & (USD Million)****Table 62. Global Micro Ball Screws for Dexterous Robotic Hands Average Price by Manufacturer (2021-2026) & (K US\$/Unit)****Table 63. Market Position of Manufacturers in Micro Ball Screws for Dexterous Robotic Hands, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025****Table 64. Head Office and Micro Ball Screws for Dexterous Robotic Hands Production Site of Key Manufacturer**

Table 65. Micro Ball Screws for Dexterous Robotic Hands Market: Company Product Type Footprint

Table 66. Micro Ball Screws for Dexterous Robotic Hands Market: Company Product Application Footprint

Table 67. Micro Ball Screws for Dexterous Robotic Hands New Market Entrants and Barriers to Market Entry

Table 68. Micro Ball Screws for Dexterous Robotic Hands Mergers, Acquisition, Agreements, and Collaborations

Table 69. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 70. Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Region (2021-2026) & (Units)

Table 71. Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Region (2027-2032) & (Units)

Table 72. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Region (2021-2026) & (USD Million)

Table 73. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Region (2027-2032) & (USD Million)

Table 74. Global Micro Ball Screws for Dexterous Robotic Hands Average Price by Region (2021-2026) & (K US\$/Unit)

Table 75. Global Micro Ball Screws for Dexterous Robotic Hands Average Price by Region (2027-2032) & (K US\$/Unit)

Table 76. Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2021-2026) & (Units)

Table 77. Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2027-2032) & (Units)

Table 78. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Type (2021-2026) & (USD Million)

Table 79. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Type (2027-2032) & (USD Million)

Table 80. Global Micro Ball Screws for Dexterous Robotic Hands Average Price by Type (2021-2026) & (K US\$/Unit)

Table 81. Global Micro Ball Screws for Dexterous Robotic Hands Average Price by Type (2027-2032) & (K US\$/Unit)

Table 82. Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2021-2026) & (Units)

Table 83. Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2027-2032) & (Units)

Table 84. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value

by Application (2021-2026) & (USD Million)

Table 85. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Application (2027-2032) & (USD Million)

Table 86. Global Micro Ball Screws for Dexterous Robotic Hands Average Price by Application (2021-2026) & (K US\$/Unit)

Table 87. Global Micro Ball Screws for Dexterous Robotic Hands Average Price by Application (2027-2032) & (K US\$/Unit)

Table 88. North America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2021-2026) & (Units)

Table 89. North America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2027-2032) & (Units)

Table 90. North America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2021-2026) & (Units)

Table 91. North America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2027-2032) & (Units)

Table 92. North America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Country (2021-2026) & (Units)

Table 93. North America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Country (2027-2032) & (Units)

Table 94. North America Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Country (2021-2026) & (USD Million)

Table 95. North America Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Country (2027-2032) & (USD Million)

Table 96. Europe Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2021-2026) & (Units)

Table 97. Europe Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2027-2032) & (Units)

Table 98. Europe Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2021-2026) & (Units)

Table 99. Europe Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2027-2032) & (Units)

Table 100. Europe Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Country (2021-2026) & (Units)

Table 101. Europe Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Country (2027-2032) & (Units)

Table 102. Europe Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Country (2021-2026) & (USD Million)

Table 103. Europe Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Country (2027-2032) & (USD Million)

Table 104. Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2021-2026) & (Units)

Table 105. Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2027-2032) & (Units)

Table 106. Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2021-2026) & (Units)

Table 107. Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2027-2032) & (Units)

Table 108. Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Region (2021-2026) & (Units)

Table 109. Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Region (2027-2032) & (Units)

Table 110. Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Region (2021-2026) & (USD Million)

Table 111. Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Region (2027-2032) & (USD Million)

Table 112. South America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2021-2026) & (Units)

Table 113. South America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2027-2032) & (Units)

Table 114. South America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2021-2026) & (Units)

Table 115. South America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2027-2032) & (Units)

Table 116. South America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Country (2021-2026) & (Units)

Table 117. South America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Country (2027-2032) & (Units)

Table 118. South America Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Country (2021-2026) & (USD Million)

Table 119. South America Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Country (2027-2032) & (USD Million)

Table 120. Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2021-2026) & (Units)

Table 121. Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Type (2027-2032) & (Units)

Table 122. Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Sales Quantity by Application (2021-2026) & (Units)

Table 123. Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Sales

Quantity by Application (2027-2032) & (Units)

Table 124. Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Sales

Quantity by Country (2021-2026) & (Units)

Table 125. Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Sales

Quantity by Country (2027-2032) & (Units)

Table 126. Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands

Consumption Value by Country (2021-2026) & (USD Million)

Table 127. Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands

Consumption Value by Country (2027-2032) & (USD Million)

Table 128. Micro Ball Screws for Dexterous Robotic Hands Raw Material

Table 129. Key Manufacturers of Micro Ball Screws for Dexterous Robotic Hands Raw
Materials

Table 130. Micro Ball Screws for Dexterous Robotic Hands Typical Distributors

Table 131. Micro Ball Screws for Dexterous Robotic Hands Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Micro Ball Screws for Dexterous Robotic Hands Picture
- Figure 2. Global Micro Ball Screws for Dexterous Robotic Hands Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Micro Ball Screws for Dexterous Robotic Hands Revenue Market Share by Type in 2025
- Figure 4. Standard Micro Ball Screw Examples
- Figure 5. Hollow Micro Ball Screw Examples
- Figure 6. High-load Micro Ball Screw Examples
- Figure 7. High-speed Micro Ball Screw Examples
- Figure 8. Others Examples
- Figure 9. Global Micro Ball Screws for Dexterous Robotic Hands Revenue by Accuracy Grade, (USD Million), 2021 & 2025 & 2032
- Figure 10. Global Micro Ball Screws for Dexterous Robotic Hands Revenue Market Share by Accuracy Grade in 2025
- Figure 11. P2-P3 Grade (Ultra-High Precision) Examples
- Figure 12. P4-P5 Grade (High Precision) Examples
- Figure 13. C3-C5 Grade (Standard Precision) Examples
- Figure 14. C7-C10 Grade (General Industrial) Examples
- Figure 15. Global Micro Ball Screws for Dexterous Robotic Hands Revenue by Screw Diameter, (USD Million), 2021 & 2025 & 2032
- Figure 16. Global Micro Ball Screws for Dexterous Robotic Hands Revenue Market Share by Screw Diameter in 2025
- Figure 17. 0–2 mm Examples
- Figure 18. 2–4 mm Examples
- Figure 19. 4–6 mm Examples
- Figure 20. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 21. Global Micro Ball Screws for Dexterous Robotic Hands Revenue Market Share by Application in 2025
- Figure 22. Robotics Industry Examples
- Figure 23. Medical Device Industry Examples
- Figure 24. Industrial Automation Industry Examples
- Figure 25. Aerospace and Defense Examples
- Figure 26. Others Examples
- Figure 27. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value,

(USD Million): 2021 & 2025 & 2032

Figure 28. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 29. Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity (2021-2032) & (Units)

Figure 30. Global Micro Ball Screws for Dexterous Robotic Hands Price (2021-2032) & (K US\$/Unit)

Figure 31. Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Manufacturer in 2025

Figure 32. Global Micro Ball Screws for Dexterous Robotic Hands Revenue Market Share by Manufacturer in 2025

Figure 33. Producer Shipments of Micro Ball Screws for Dexterous Robotic Hands by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 34. Top 3 Micro Ball Screws for Dexterous Robotic Hands Manufacturer (Revenue) Market Share in 2025

Figure 35. Top 6 Micro Ball Screws for Dexterous Robotic Hands Manufacturer (Revenue) Market Share in 2025

Figure 36. Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Region (2021-2032)

Figure 37. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value Market Share by Region (2021-2032)

Figure 38. North America Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 39. Europe Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 40. Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 41. South America Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 42. Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 43. Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Type (2021-2032)

Figure 44. Global Micro Ball Screws for Dexterous Robotic Hands Consumption Value Market Share by Type (2021-2032)

Figure 45. Global Micro Ball Screws for Dexterous Robotic Hands Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 46. Global Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Application (2021-2032)

Figure 47. Global Micro Ball Screws for Dexterous Robotic Hands Revenue Market Share by Application (2021-2032)

Figure 48. Global Micro Ball Screws for Dexterous Robotic Hands Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 49. North America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Type (2021-2032)

Figure 50. North America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Application (2021-2032)

Figure 51. North America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Country (2021-2032)

Figure 52. North America Micro Ball Screws for Dexterous Robotic Hands Consumption Value Market Share by Country (2021-2032)

Figure 53. United States Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 54. Canada Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 55. Mexico Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 56. Europe Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Type (2021-2032)

Figure 57. Europe Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Application (2021-2032)

Figure 58. Europe Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Country (2021-2032)

Figure 59. Europe Micro Ball Screws for Dexterous Robotic Hands Consumption Value Market Share by Country (2021-2032)

Figure 60. Germany Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 61. France Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 62. United Kingdom Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 63. Russia Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 64. Italy Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 65. Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Type (2021-2032)

Figure 66. Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Sales Quantity

Market Share by Application (2021-2032)

Figure 67. Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Sales Quantity

Market Share by Region (2021-2032)

Figure 68. Asia-Pacific Micro Ball Screws for Dexterous Robotic Hands Consumption

Value Market Share by Region (2021-2032)

Figure 69. China Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 70. Japan Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 71. South Korea Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 72. India Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 73. Southeast Asia Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 74. Australia Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 75. South America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Type (2021-2032)

Figure 76. South America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Application (2021-2032)

Figure 77. South America Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Country (2021-2032)

Figure 78. South America Micro Ball Screws for Dexterous Robotic Hands Consumption Value Market Share by Country (2021-2032)

Figure 79. Brazil Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 80. Argentina Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 81. Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Type (2021-2032)

Figure 82. Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Application (2021-2032)

Figure 83. Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Sales Quantity Market Share by Country (2021-2032)

Figure 84. Middle East & Africa Micro Ball Screws for Dexterous Robotic Hands Consumption Value Market Share by Country (2021-2032)

Figure 85. Turkey Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 86. Egypt Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 87. Saudi Arabia Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 88. South Africa Micro Ball Screws for Dexterous Robotic Hands Consumption Value (2021-2032) & (USD Million)

Figure 89. Micro Ball Screws for Dexterous Robotic Hands Market Drivers

Figure 90. Micro Ball Screws for Dexterous Robotic Hands Market Restraints

Figure 91. Micro Ball Screws for Dexterous Robotic Hands Market Trends

Figure 92. Porters Five Forces Analysis

Figure 93. Manufacturing Cost Structure Analysis of Micro Ball Screws for Dexterous Robotic Hands in 2025

Figure 94. Manufacturing Process Analysis of Micro Ball Screws for Dexterous Robotic Hands

Figure 95. Micro Ball Screws for Dexterous Robotic Hands Industrial Chain

Figure 96. Sales Channel: Direct to End-User vs Distributors

Figure 97. Direct Channel Pros & Cons

Figure 98. Indirect Channel Pros & Cons

Figure 99. Methodology

Figure 100. Research Process and Data Source

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