

Global Recirculating Roller Screw Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Recirculating Roller Screw market size is expected to reach \$ 118 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

The Recirculating Roller Screw belongs to the category of secondary roller screws, and its core mechanism involves the rollers moving axially within the nut and returning to their original position after rotating one revolution around the screw through a specific structure, thereby achieving continuous circulation. The intention of this design is to address the difficulties in machining small leads on multi-start thread screws, and by utilizing the reciprocating circular motion of the rollers, it achieves extremely small pitch matching to meet transmission requirements for small leads and high precision. Due to the adoption of the linear contact roller transmission method and the elimination of the gear structure used to synchronize roller rotation in traditional planetary screws, this device obtains significant mechanical advantages while ensuring extremely high positioning accuracy, resolution, and high axial stiffness, substantially reducing input torque and enhancing heavy load-bearing capacity. This technical solution, which constructs a complete closed roller path, effectively reduces the twist in the non-load return path, and on the basis of enhancing structural strength and extending service life, ensures the robustness and reliability of the device during operation. In 2025, global Recirculating Roller Screw production reached approximately 22 k sets with an average global market price of around US\$2000 per set.

The future Recirculating Roller Screw industry will focus on technological deepening and intelligent upgrades to drive corporate revenue growth. Enterprises will strive to improve product precision and durability by introducing high-strength materials and advanced surface treatment technologies, while utilizing automated production and quality control technologies to reduce manufacturing costs, thereby enhancing market

competitiveness while maintaining profit margins. Major industry trends will feature the parallel development of customization and intelligence. Manufacturers will develop specialized screws for specific loads and operating environments to meet diverse demands, and integrate sensors and data processing systems to achieve real-time monitoring and optimization of the transmission process, adapting to the development trend of intelligent manufacturing. Furthermore, leveraging their advantages of high load-bearing capacity and wear resistance, Recirculating Roller Screw will further expand into high-end application fields such as automated production lines, precision measurement, and humanoid robots, bringing incremental space to the industry. Technological innovation will become the key for enterprises to increase product added value and profitability.

This report studies the global Recirculating Roller Screw production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Recirculating Roller Screw and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Recirculating Roller Screw that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Recirculating Roller Screw total production and demand, 2021-2032, (Units)

Global Recirculating Roller Screw total production value, 2021-2032, (USD Million)

Global Recirculating Roller Screw production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Recirculating Roller Screw consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Recirculating Roller Screw domestic production, consumption, key domestic manufacturers and share

Global Recirculating Roller Screw production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Recirculating Roller Screw production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Recirculating Roller Screw production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Recirculating Roller Screw market based on the following parameters - company overview, production, value, price, gross margin,

product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Schaeffler (Ewellix), Bosch Rexroth, GSA, Rollvis, Nook Industries, Moog, Tolomatic, Creative Motion Control, Power Jacks, Kugel Motion, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Recirculating Roller Screw market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Recirculating Roller Screw Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Recirculating Roller Screw Market, Segmentation by Type:

Spindle Nominal?50mm

Spindle Nominal?50mm

Global Recirculating Roller Screw Market, Segmentation by Lead Screw Number:

Single-ended Lead Screw

Double-ended Lead Screw

Global Recirculating Roller Screw Market, Segmentation by Accuracy Grade:

T7/T10

P5/P7

P3/P5

P1/P3

Global Recirculating Roller Screw Market, Segmentation by Application:

Aerospace

Oil Valves

Robot Driven

Other

Companies Profiled:

Schaeffler (Ewellix)

Bosch Rexroth

GSA

Rollvis

Nook Industries

Moog

Tolomatic

Creative Motion Control

Power Jacks

Kugel Motion

KOFON

Curtiss-Wright Exlar

U-SCREWS

Qinchuan Machine Tool & Tool Group

Xi'an Fang Yuan Ming Science and Technology

Key Questions Answered:

1. How big is the global Recirculating Roller Screw market?
2. What is the demand of the global Recirculating Roller Screw market?
3. What is the year over year growth of the global Recirculating Roller Screw market?
4. What is the production and production value of the global Recirculating Roller Screw market?
5. Who are the key producers in the global Recirculating Roller Screw market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Recirculating Roller Screw Production Value by Manufacturer (2021-2026)

- 3.2 World Recirculating Roller Screw Production by Manufacturer (2021-2026)
- 3.3 World Recirculating Roller Screw Average Price by Manufacturer (2021-2026)
- 3.4 Recirculating Roller Screw Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Recirculating Roller Screw Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Recirculating Roller Screw in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Recirculating Roller Screw in 2025
- 3.6 Recirculating Roller Screw Market: Overall Company Footprint Analysis
 - 3.6.1 Recirculating Roller Screw Market: Region Footprint
 - 3.6.2 Recirculating Roller Screw Market: Company Product Type Footprint
 - 3.6.3 Recirculating Roller Screw Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Recirculating Roller Screw Production Value Comparison
 - 4.1.1 United States VS China: Recirculating Roller Screw Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Recirculating Roller Screw Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Recirculating Roller Screw Production Comparison
 - 4.2.1 United States VS China: Recirculating Roller Screw Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Recirculating Roller Screw Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Recirculating Roller Screw Consumption Comparison
 - 4.3.1 United States VS China: Recirculating Roller Screw Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Recirculating Roller Screw Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Recirculating Roller Screw Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Recirculating Roller Screw Manufacturers, Headquarters and Production Site (States, Country)

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

5 MARKET ANALYSIS BY TYPE

- 5.1 World Recirculating Roller Screw Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 Spindle Nominal?50mm
 - 5.2.2 Spindle Nominal?50mm
- 5.3 Market Segment by Type
 - 5.3.1 World Recirculating Roller Screw Production by Type (2021-2032)
 - 5.3.2 World Recirculating Roller Screw Production Value by Type (2021-2032)
 - 5.3.3 World Recirculating Roller Screw Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY LEAD SCREW NUMBER

- 6.1 World Recirculating Roller Screw Market Size Overview by Lead Screw Number: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Lead Screw Number
 - 6.2.1 Single-ended Lead Screw
 - 6.2.2 Double-ended Lead Screw
- 6.3 Market Segment by Lead Screw Number

6.3.1 World Recirculating Roller Screw Production by Lead Screw Number (2021-2032)

6.3.2 World Recirculating Roller Screw Production Value by Lead Screw Number (2021-2032)

6.3.3 World Recirculating Roller Screw Average Price by Lead Screw Number (2021-2032)

7 MARKET ANALYSIS BY ACCURACY GRADE

7.1 World Recirculating Roller Screw Market Size Overview by Accuracy Grade: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Accuracy Grade

7.2.1 T7/T10

7.2.2 P5/P7

7.2.3 P3/P5

7.2.4 P1/P3

7.3 Market Segment by Accuracy Grade

7.3.1 World Recirculating Roller Screw Production by Accuracy Grade (2021-2032)

7.3.2 World Recirculating Roller Screw Production Value by Accuracy Grade (2021-2032)

7.3.3 World Recirculating Roller Screw Average Price by Accuracy Grade (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Recirculating Roller Screw Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Aerospace

8.2.2 Oil Valves

8.2.3 Robot Driven

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Recirculating Roller Screw Production by Application (2021-2032)

8.3.2 World Recirculating Roller Screw Production Value by Application (2021-2032)

8.3.3 World Recirculating Roller Screw Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Schaeffler (Ewellix)

9.1.1 Schaeffler (Ewellix) Details

- 9.1.2 Schaeffler (Ewellix) Major Business
- 9.1.3 Schaeffler (Ewellix) Recirculating Roller Screw Product and Services
- 9.1.4 Schaeffler (Ewellix) Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Schaeffler (Ewellix) Recent Developments/Updates
- 9.1.6 Schaeffler (Ewellix) Competitive Strengths & Weaknesses
- 9.2 Bosch Rexroth
 - 9.2.1 Bosch Rexroth Details
 - 9.2.2 Bosch Rexroth Major Business
 - 9.2.3 Bosch Rexroth Recirculating Roller Screw Product and Services
 - 9.2.4 Bosch Rexroth Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Bosch Rexroth Recent Developments/Updates
 - 9.2.6 Bosch Rexroth Competitive Strengths & Weaknesses
- 9.3 GSA
 - 9.3.1 GSA Details
 - 9.3.2 GSA Major Business
 - 9.3.3 GSA Recirculating Roller Screw Product and Services
 - 9.3.4 GSA Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 GSA Recent Developments/Updates
 - 9.3.6 GSA Competitive Strengths & Weaknesses
- 9.4 Rollvis
 - 9.4.1 Rollvis Details
 - 9.4.2 Rollvis Major Business
 - 9.4.3 Rollvis Recirculating Roller Screw Product and Services
 - 9.4.4 Rollvis Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Rollvis Recent Developments/Updates
 - 9.4.6 Rollvis Competitive Strengths & Weaknesses
- 9.5 Nook Industries
 - 9.5.1 Nook Industries Details
 - 9.5.2 Nook Industries Major Business
 - 9.5.3 Nook Industries Recirculating Roller Screw Product and Services
 - 9.5.4 Nook Industries Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Nook Industries Recent Developments/Updates
 - 9.5.6 Nook Industries Competitive Strengths & Weaknesses
- 9.6 Moog

- 9.6.1 Moog Details
- 9.6.2 Moog Major Business
- 9.6.3 Moog Recirculating Roller Screw Product and Services
- 9.6.4 Moog Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Moog Recent Developments/Updates
- 9.6.6 Moog Competitive Strengths & Weaknesses
- 9.7 Tolomatic
 - 9.7.1 Tolomatic Details
 - 9.7.2 Tolomatic Major Business
 - 9.7.3 Tolomatic Recirculating Roller Screw Product and Services
 - 9.7.4 Tolomatic Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Tolomatic Recent Developments/Updates
 - 9.7.6 Tolomatic Competitive Strengths & Weaknesses
- 9.8 Creative Motion Control
 - 9.8.1 Creative Motion Control Details
 - 9.8.2 Creative Motion Control Major Business
 - 9.8.3 Creative Motion Control Recirculating Roller Screw Product and Services
 - 9.8.4 Creative Motion Control Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Creative Motion Control Recent Developments/Updates
 - 9.8.6 Creative Motion Control Competitive Strengths & Weaknesses
- 9.9 Power Jacks
 - 9.9.1 Power Jacks Details
 - 9.9.2 Power Jacks Major Business
 - 9.9.3 Power Jacks Recirculating Roller Screw Product and Services
 - 9.9.4 Power Jacks Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Power Jacks Recent Developments/Updates
 - 9.9.6 Power Jacks Competitive Strengths & Weaknesses
- 9.10 Kugel Motion
 - 9.10.1 Kugel Motion Details
 - 9.10.2 Kugel Motion Major Business
 - 9.10.3 Kugel Motion Recirculating Roller Screw Product and Services
 - 9.10.4 Kugel Motion Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Kugel Motion Recent Developments/Updates
 - 9.10.6 Kugel Motion Competitive Strengths & Weaknesses

9.11 KOFON

9.11.1 KOFON Details

9.11.2 KOFON Major Business

9.11.3 KOFON Recirculating Roller Screw Product and Services

9.11.4 KOFON Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 KOFON Recent Developments/Updates

9.11.6 KOFON Competitive Strengths & Weaknesses

9.12 Curtiss-Wright Exlar

9.12.1 Curtiss-Wright Exlar Details

9.12.2 Curtiss-Wright Exlar Major Business

9.12.3 Curtiss-Wright Exlar Recirculating Roller Screw Product and Services

9.12.4 Curtiss-Wright Exlar Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Curtiss-Wright Exlar Recent Developments/Updates

9.12.6 Curtiss-Wright Exlar Competitive Strengths & Weaknesses

9.13 U-SCREWS

9.13.1 U-SCREWS Details

9.13.2 U-SCREWS Major Business

9.13.3 U-SCREWS Recirculating Roller Screw Product and Services

9.13.4 U-SCREWS Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 U-SCREWS Recent Developments/Updates

9.13.6 U-SCREWS Competitive Strengths & Weaknesses

9.14 Qinchuan Machine Tool & Tool Group

9.14.1 Qinchuan Machine Tool & Tool Group Details

9.14.2 Qinchuan Machine Tool & Tool Group Major Business

9.14.3 Qinchuan Machine Tool & Tool Group Recirculating Roller Screw Product and Services

9.14.4 Qinchuan Machine Tool & Tool Group Recirculating Roller Screw Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Qinchuan Machine Tool & Tool Group Recent Developments/Updates

9.14.6 Qinchuan Machine Tool & Tool Group Competitive Strengths & Weaknesses

9.15 Xi'an Fang Yuan Ming Science and Technology

9.15.1 Xi'an Fang Yuan Ming Science and Technology Details

9.15.2 Xi'an Fang Yuan Ming Science and Technology Major Business

9.15.3 Xi'an Fang Yuan Ming Science and Technology Recirculating Roller Screw Product and Services

9.15.4 Xi'an Fang Yuan Ming Science and Technology Recirculating Roller Screw

Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Xi'an Fang Yuan Ming Science and Technology Recent Developments/Updates

9.15.6 Xi'an Fang Yuan Ming Science and Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Recirculating Roller Screw Industry Chain

10.2 Recirculating Roller Screw Upstream Analysis

10.2.1 Recirculating Roller Screw Core Raw Materials

10.2.2 Main Manufacturers of Recirculating Roller Screw Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Recirculating Roller Screw Production Mode

10.6 Recirculating Roller Screw Procurement Model

10.7 Recirculating Roller Screw Industry Sales Model and Sales Channels

10.7.1 Recirculating Roller Screw Sales Model

10.7.2 Recirculating Roller Screw Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Recirculating Roller Screw Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Recirculating Roller Screw Production Value by Region (2021-2026) & (USD Million)

Table 3. World Recirculating Roller Screw Production Value by Region (2027-2032) & (USD Million)

Table 4. World Recirculating Roller Screw Production Value Market Share by Region (2021-2026)

Table 5. World Recirculating Roller Screw Production Value Market Share by Region (2027-2032)

Table 6. World Recirculating Roller Screw Production by Region (2021-2026) & (Units)

Table 7. World Recirculating Roller Screw Production by Region (2027-2032) & (Units)

Table 8. World Recirculating Roller Screw Production Market Share by Region (2021-2026)

Table 9. World Recirculating Roller Screw Production Market Share by Region (2027-2032)

Table 10. World Recirculating Roller Screw Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Recirculating Roller Screw Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Recirculating Roller Screw Major Market Trends

Table 13. World Recirculating Roller Screw Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Recirculating Roller Screw Consumption by Region (2021-2026) & (Units)

Table 15. World Recirculating Roller Screw Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Recirculating Roller Screw Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Recirculating Roller Screw Producers in 2025

Table 18. World Recirculating Roller Screw Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Recirculating Roller Screw Producers in 2025

Table 20. World Recirculating Roller Screw Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Recirculating Roller Screw Company Evaluation Quadrant

Table 22. World Recirculating Roller Screw Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Recirculating Roller Screw Production Site of Key Manufacturer

Table 24. Recirculating Roller Screw Market: Company Product Type Footprint

Table 25. Recirculating Roller Screw Market: Company Product Application Footprint

Table 26. Recirculating Roller Screw Competitive Factors

Table 27. Recirculating Roller Screw New Entrant and Capacity Expansion Plans

Table 28. Recirculating Roller Screw Mergers & Acquisitions Activity

Table 29. United States VS China Recirculating Roller Screw Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Recirculating Roller Screw Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Recirculating Roller Screw Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Recirculating Roller Screw Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Recirculating Roller Screw Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Recirculating Roller Screw Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Recirculating Roller Screw Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Recirculating Roller Screw Production Market Share (2021-2026)

Table 37. China Based Recirculating Roller Screw Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Recirculating Roller Screw Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Recirculating Roller Screw Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Recirculating Roller Screw Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Recirculating Roller Screw Production Market Share (2021-2026)

Table 42. Rest of World Based Recirculating Roller Screw Manufacturers, Headquarters

and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Recirculating Roller Screw Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Recirculating Roller Screw Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Recirculating Roller Screw Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Recirculating Roller Screw Production Market Share (2021-2026)

Table 47. World Recirculating Roller Screw Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Recirculating Roller Screw Production by Type (2021-2026) & (Units)

Table 49. World Recirculating Roller Screw Production by Type (2027-2032) & (Units)

Table 50. World Recirculating Roller Screw Production Value by Type (2021-2026) & (USD Million)

Table 51. World Recirculating Roller Screw Production Value by Type (2027-2032) & (USD Million)

Table 52. World Recirculating Roller Screw Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Recirculating Roller Screw Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Recirculating Roller Screw Production Value by Lead Screw Number, (USD Million), 2021 & 2025 & 2032

Table 55. World Recirculating Roller Screw Production by Lead Screw Number (2021-2026) & (Units)

Table 56. World Recirculating Roller Screw Production by Lead Screw Number (2027-2032) & (Units)

Table 57. World Recirculating Roller Screw Production Value by Lead Screw Number (2021-2026) & (USD Million)

Table 58. World Recirculating Roller Screw Production Value by Lead Screw Number (2027-2032) & (USD Million)

Table 59. World Recirculating Roller Screw Average Price by Lead Screw Number (2021-2026) & (US\$/Unit)

Table 60. World Recirculating Roller Screw Average Price by Lead Screw Number (2027-2032) & (US\$/Unit)

Table 61. World Recirculating Roller Screw Production Value by Accuracy Grade, (USD Million), 2021 & 2025 & 2032

Table 62. World Recirculating Roller Screw Production by Accuracy Grade (2021-2026) & (Units)

Table 63. World Recirculating Roller Screw Production by Accuracy Grade (2027-2032) & (Units)

Table 64. World Recirculating Roller Screw Production Value by Accuracy Grade (2021-2026) & (USD Million)

Table 65. World Recirculating Roller Screw Production Value by Accuracy Grade (2027-2032) & (USD Million)

Table 66. World Recirculating Roller Screw Average Price by Accuracy Grade (2021-2026) & (US\$/Unit)

Table 67. World Recirculating Roller Screw Average Price by Accuracy Grade (2027-2032) & (US\$/Unit)

Table 68. World Recirculating Roller Screw Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Recirculating Roller Screw Production by Application (2021-2026) & (Units)

Table 70. World Recirculating Roller Screw Production by Application (2027-2032) & (Units)

Table 71. World Recirculating Roller Screw Production Value by Application (2021-2026) & (USD Million)

Table 72. World Recirculating Roller Screw Production Value by Application (2027-2032) & (USD Million)

Table 73. World Recirculating Roller Screw Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Recirculating Roller Screw Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Schaeffler (Ewellix) Basic Information, Manufacturing Base and Competitors

Table 76. Schaeffler (Ewellix) Major Business

Table 77. Schaeffler (Ewellix) Recirculating Roller Screw Product and Services

Table 78. Schaeffler (Ewellix) Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Schaeffler (Ewellix) Recent Developments/Updates

Table 80. Schaeffler (Ewellix) Competitive Strengths & Weaknesses

Table 81. Bosch Rexroth Basic Information, Manufacturing Base and Competitors

Table 82. Bosch Rexroth Major Business

Table 83. Bosch Rexroth Recirculating Roller Screw Product and Services

Table 84. Bosch Rexroth Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Bosch Rexroth Recent Developments/Updates

Table 86. Bosch Rexroth Competitive Strengths & Weaknesses
Table 87. GSA Basic Information, Manufacturing Base and Competitors
Table 88. GSA Major Business
Table 89. GSA Recirculating Roller Screw Product and Services
Table 90. GSA Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. GSA Recent Developments/Updates
Table 92. GSA Competitive Strengths & Weaknesses
Table 93. Rollvis Basic Information, Manufacturing Base and Competitors
Table 94. Rollvis Major Business
Table 95. Rollvis Recirculating Roller Screw Product and Services
Table 96. Rollvis Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Rollvis Recent Developments/Updates
Table 98. Rollvis Competitive Strengths & Weaknesses
Table 99. Nook Industries Basic Information, Manufacturing Base and Competitors
Table 100. Nook Industries Major Business
Table 101. Nook Industries Recirculating Roller Screw Product and Services
Table 102. Nook Industries Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Nook Industries Recent Developments/Updates
Table 104. Nook Industries Competitive Strengths & Weaknesses
Table 105. Moog Basic Information, Manufacturing Base and Competitors
Table 106. Moog Major Business
Table 107. Moog Recirculating Roller Screw Product and Services
Table 108. Moog Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Moog Recent Developments/Updates
Table 110. Moog Competitive Strengths & Weaknesses
Table 111. Tolomatic Basic Information, Manufacturing Base and Competitors
Table 112. Tolomatic Major Business
Table 113. Tolomatic Recirculating Roller Screw Product and Services
Table 114. Tolomatic Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Tolomatic Recent Developments/Updates
Table 116. Tolomatic Competitive Strengths & Weaknesses
Table 117. Creative Motion Control Basic Information, Manufacturing Base and Competitors

Table 118. Creative Motion Control Major Business

Table 119. Creative Motion Control Recirculating Roller Screw Product and Services

Table 120. Creative Motion Control Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Creative Motion Control Recent Developments/Updates

Table 122. Creative Motion Control Competitive Strengths & Weaknesses

Table 123. Power Jacks Basic Information, Manufacturing Base and Competitors

Table 124. Power Jacks Major Business

Table 125. Power Jacks Recirculating Roller Screw Product and Services

Table 126. Power Jacks Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Power Jacks Recent Developments/Updates

Table 128. Power Jacks Competitive Strengths & Weaknesses

Table 129. Kugel Motion Basic Information, Manufacturing Base and Competitors

Table 130. Kugel Motion Major Business

Table 131. Kugel Motion Recirculating Roller Screw Product and Services

Table 132. Kugel Motion Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Kugel Motion Recent Developments/Updates

Table 134. Kugel Motion Competitive Strengths & Weaknesses

Table 135. KOFON Basic Information, Manufacturing Base and Competitors

Table 136. KOFON Major Business

Table 137. KOFON Recirculating Roller Screw Product and Services

Table 138. KOFON Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. KOFON Recent Developments/Updates

Table 140. KOFON Competitive Strengths & Weaknesses

Table 141. Curtiss-Wright Exlar Basic Information, Manufacturing Base and Competitors

Table 142. Curtiss-Wright Exlar Major Business

Table 143. Curtiss-Wright Exlar Recirculating Roller Screw Product and Services

Table 144. Curtiss-Wright Exlar Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Curtiss-Wright Exlar Recent Developments/Updates

Table 146. Curtiss-Wright Exlar Competitive Strengths & Weaknesses

Table 147. U-SCREWS Basic Information, Manufacturing Base and Competitors

Table 148. U-SCREWS Major Business

Table 149. U-SCREWS Recirculating Roller Screw Product and Services

Table 150. U-SCREWS Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. U-SCREWS Recent Developments/Updates

Table 152. U-SCREWS Competitive Strengths & Weaknesses

Table 153. Qinchuan Machine Tool & Tool Group Basic Information, Manufacturing Base and Competitors

Table 154. Qinchuan Machine Tool & Tool Group Major Business

Table 155. Qinchuan Machine Tool & Tool Group Recirculating Roller Screw Product and Services

Table 156. Qinchuan Machine Tool & Tool Group Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Qinchuan Machine Tool & Tool Group Recent Developments/Updates

Table 158. Qinchuan Machine Tool & Tool Group Competitive Strengths & Weaknesses

Table 159. Xi'an Fang Yuan Ming Science and Technology Basic Information, Manufacturing Base and Competitors

Table 160. Xi'an Fang Yuan Ming Science and Technology Major Business

Table 161. Xi'an Fang Yuan Ming Science and Technology Recirculating Roller Screw Product and Services

Table 162. Xi'an Fang Yuan Ming Science and Technology Recirculating Roller Screw Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Xi'an Fang Yuan Ming Science and Technology Recent Developments/Updates

Table 164. Xi'an Fang Yuan Ming Science and Technology Competitive Strengths & Weaknesses

Table 165. Global Key Players of Recirculating Roller Screw Upstream (Raw Materials)

Table 166. Global Recirculating Roller Screw Typical Customers

Table 167. Recirculating Roller Screw Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Recirculating Roller Screw Picture

Figure 2. World Recirculating Roller Screw Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Recirculating Roller Screw Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Recirculating Roller Screw Production (2021-2032) & (Units)

Figure 5. World Recirculating Roller Screw Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Recirculating Roller Screw Production Value Market Share by Region (2021-2032)

Figure 7. World Recirculating Roller Screw Production Market Share by Region (2021-2032)

Figure 8. North America Recirculating Roller Screw Production (2021-2032) & (Units)

Figure 9. Europe Recirculating Roller Screw Production (2021-2032) & (Units)

Figure 10. China Recirculating Roller Screw Production (2021-2032) & (Units)

Figure 11. Japan Recirculating Roller Screw Production (2021-2032) & (Units)

Figure 12. Recirculating Roller Screw Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Recirculating Roller Screw Consumption (2021-2032) & (Units)

Figure 15. World Recirculating Roller Screw Consumption Market Share by Region (2021-2032)

Figure 16. United States Recirculating Roller Screw Consumption (2021-2032) & (Units)

Figure 17. China Recirculating Roller Screw Consumption (2021-2032) & (Units)

Figure 18. Europe Recirculating Roller Screw Consumption (2021-2032) & (Units)

Figure 19. Japan Recirculating Roller Screw Consumption (2021-2032) & (Units)

Figure 20. South Korea Recirculating Roller Screw Consumption (2021-2032) & (Units)

Figure 21. ASEAN Recirculating Roller Screw Consumption (2021-2032) & (Units)

Figure 22. India Recirculating Roller Screw Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Recirculating Roller Screw by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Recirculating Roller Screw Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Recirculating Roller Screw Markets in 2025

Figure 26. United States VS China: Recirculating Roller Screw Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Recirculating Roller Screw Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Recirculating Roller Screw Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Recirculating Roller Screw Production Market Share 2025

Figure 30. China Based Manufacturers Recirculating Roller Screw Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Recirculating Roller Screw Production Market Share 2025

Figure 32. World Recirculating Roller Screw Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Recirculating Roller Screw Production Value Market Share by Type in 2025

Figure 34. Spindle Nominal?50mm

Figure 35. Spindle Nominal?50mm

Figure 36. World Recirculating Roller Screw Production Market Share by Type (2021-2032)

Figure 37. World Recirculating Roller Screw Production Value Market Share by Type (2021-2032)

Figure 38. World Recirculating Roller Screw Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Recirculating Roller Screw Production Value by Lead Screw Number, (USD Million), 2021 & 2025 & 2032

Figure 40. World Recirculating Roller Screw Production Value Market Share by Lead Screw Number in 2025

Figure 41. Single-ended Lead Screw

Figure 42. Double-ended Lead Screw

Figure 43. World Recirculating Roller Screw Production Market Share by Lead Screw Number (2021-2032)

Figure 44. World Recirculating Roller Screw Production Value Market Share by Lead Screw Number (2021-2032)

Figure 45. World Recirculating Roller Screw Average Price by Lead Screw Number (2021-2032) & (US\$/Unit)

Figure 46. World Recirculating Roller Screw Production Value by Accuracy Grade, (USD Million), 2021 & 2025 & 2032

Figure 47. World Recirculating Roller Screw Production Value Market Share by Accuracy Grade in 2025

Figure 48. T7/T10

Figure 49. P5/P7

Figure 50. P3/P5

Figure 51. P1/P3

Figure 52. World Recirculating Roller Screw Production Market Share by Accuracy Grade (2021-2032)

Figure 53. World Recirculating Roller Screw Production Value Market Share by Accuracy Grade (2021-2032)

Figure 54. World Recirculating Roller Screw Average Price by Accuracy Grade (2021-2032) & (US\$/Unit)

Figure 55. World Recirculating Roller Screw Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Recirculating Roller Screw Production Value Market Share by Application in 2025

Figure 57. Aerospace

Figure 58. Oil Valves

Figure 59. Robot Driven

Figure 60. Other

Figure 61. World Recirculating Roller Screw Production Market Share by Application (2021-2032)

Figure 62. World Recirculating Roller Screw Production Value Market Share by Application (2021-2032)

Figure 63. World Recirculating Roller Screw Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Recirculating Roller Screw Industry Chain

Figure 65. Recirculating Roller Screw Procurement Model

Figure 66. Recirculating Roller Screw Sales Model

Figure 67. Recirculating Roller Screw Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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