

Global Planetary Roller Screw Market Growth 2026-2032

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Abstracts

The global Planetary Roller Screw market size is predicted to grow from US\$ 132 million in 2025 to US\$ 495 million in 2032; it is expected to grow at a CAGR of 21.0% from 2026 to 2032.

Planetary Roller Screw (PRS) is a precision, low-friction screw-type actuator that converts rotary motion to linear motion. It transmits load through multiple threaded rollers arranged in a planetary (orbiting) motion between the screw and nut, typically enabling higher load capacity and longer life than ball screws, at higher complexity/cost. In 2025, global Planetary Roller Screw production reached approximately 81.66 k units. Global production capacity in 2025 is approximately 100 k units. Key raw materials for planetary roller screws include alloy structural steel and high-carbon chromium bearing steel; typical suppliers include Voestalpine, Nippon Steel, and Timken. Downstream applications are wide-ranging, encompassing aerospace, industrial automation, machine tools, robotics, medical equipment, and energy process control.

Ongoing growth in smart manufacturing and robotics creates major opportunities for high-load, high-precision linear motion technologies. The global roller screw market is experiencing steady growth driven by the rapid shift from hydraulic to electromechanical actuation across aerospace, automotive, industrial automation, and heavy-duty manufacturing sectors. Growing interest in high-efficiency, low-maintenance, and environmentally friendly actuation solutions is accelerating market penetration, particularly in Asia-Pacific. With increasing adoption of electric cylinders in place of hydraulic systems, the roller screw market is expected to maintain robust expansion over the next 5–7 years.

LP Information, Inc. (LPI) ' newest research report, the "Planetary Roller Screw Industry

Forecast” looks at past sales and reviews total world Planetary Roller Screw sales in 2025, providing a comprehensive analysis by region and market sector of projected Planetary Roller Screw sales for 2026 through 2032. With Planetary Roller Screw sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Planetary Roller Screw industry.

This Insight Report provides a comprehensive analysis of the global Planetary Roller Screw 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 Planetary Roller Screw portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Planetary Roller Screw market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Planetary Roller Screw and breaks down the forecast by Dynamic Load Capacity (kN), 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 Planetary Roller Screw.

This report presents a comprehensive overview, market shares, and growth opportunities of Planetary Roller Screw market by product type, application, key manufacturers and key regions and countries.

Segmentation by Dynamic Load Capacity (kN):

up to 500 kN

500 - 1500 kN

1500 - 2500 kN

2500 - 3000 kN

Other

Segmentation by Nut Form:

Standard

Recirculating

Inverted

Differential Type

Segmentation by Application:

Robotics

Automation

Oil & Gas

Aerospace

Vehicles

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.

Schaeffler (Ewellix)

Bosch Rexroth

GSA

Rollvis

Nook Industries

Moog

Tolomatic

Creative Motion Control

Lim-Tec

Power Jacks

Kugel Motion

KOFON

Curtiss-Wright Exlar

U-SCREWS

Kammerer Gewindetechnik

Qinchuan Machine Tool

Xi'an Fangyuanming Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Planetary Roller Screw market?

What factors are driving Planetary Roller Screw market growth, globally and by region?

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

How do Planetary Roller Screw market opportunities vary by end market size?

How does Planetary Roller Screw break out by Dynamic Load Capacity (kN), 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 Planetary Roller Screw Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Planetary Roller Screw by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Planetary Roller Screw by Country/Region, 2021, 2025 & 2032

2.2 Planetary Roller Screw Segment by Dynamic Load Capacity (kN)

- 2.2.1 up to 500 kN
- 2.2.2 500 - 1500 kN
- 2.2.3 1500 - 2500 kN
- 2.2.4 2500 - 3000 kN
- 2.2.5 Other
- 2.2.6 Planetary Roller Screw Sales by Dynamic Load Capacity (kN)
 - 2.2.6.1 Global Planetary Roller Screw Sales Market Share by Dynamic Load Capacity (kN) (2021-2026)
 - 2.2.6.2 Global Planetary Roller Screw Revenue and Market Share by Dynamic Load Capacity (kN) (2021-2026)
 - 2.2.6.3 Global Planetary Roller Screw Sale Price by Dynamic Load Capacity (kN) (2021-2026)

2.3 Planetary Roller Screw Segment by Nut Form

- 2.3.1 Standard
- 2.3.2 Recirculating
- 2.3.3 Inverted
- 2.3.4 Differential Type

2.3.5 Planetary Roller Screw Sales by Nut Form

2.3.5.1 Global Planetary Roller Screw Sales Market Share by Nut Form (2021-2026)

2.3.5.2 Global Planetary Roller Screw Revenue and Market Share by Nut Form (2021-2026)

2.3.5.3 Global Planetary Roller Screw Sale Price by Nut Form (2021-2026)

2.4 Planetary Roller Screw Segment by Application

2.4.1 Robotics

2.4.2 Automation

2.4.3 Oil & Gas

2.4.4 Aerospace

2.4.5 Vehicles

2.4.6 Others

2.4.7 Planetary Roller Screw Sales by Application

2.4.7.1 Global Planetary Roller Screw Sale Market Share by Application (2021-2026)

2.4.7.2 Global Planetary Roller Screw Revenue and Market Share by Application (2021-2026)

2.4.7.3 Global Planetary Roller Screw Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Planetary Roller Screw Breakdown Data by Company

3.1.1 Global Planetary Roller Screw Annual Sales by Company (2021-2026)

3.1.2 Global Planetary Roller Screw Sales Market Share by Company (2021-2026)

3.2 Global Planetary Roller Screw Annual Revenue by Company (2021-2026)

3.2.1 Global Planetary Roller Screw Revenue by Company (2021-2026)

3.2.2 Global Planetary Roller Screw Revenue Market Share by Company (2021-2026)

3.3 Global Planetary Roller Screw Sale Price by Company

3.4 Key Manufacturers Planetary Roller Screw Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Planetary Roller Screw Product Location Distribution

3.4.2 Players Planetary Roller Screw Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PLANETARY ROLLER SCREW BY GEOGRAPHIC REGION

4.1 World Historic Planetary Roller Screw Market Size by Geographic Region (2021-2026)

4.1.1 Global Planetary Roller Screw Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Planetary Roller Screw Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Planetary Roller Screw Market Size by Country/Region (2021-2026)

4.2.1 Global Planetary Roller Screw Annual Sales by Country/Region (2021-2026)

4.2.2 Global Planetary Roller Screw Annual Revenue by Country/Region (2021-2026)

4.3 Americas Planetary Roller Screw Sales Growth

4.4 APAC Planetary Roller Screw Sales Growth

4.5 Europe Planetary Roller Screw Sales Growth

4.6 Middle East & Africa Planetary Roller Screw Sales Growth

5 AMERICAS

5.1 Americas Planetary Roller Screw Sales by Country

5.1.1 Americas Planetary Roller Screw Sales by Country (2021-2026)

5.1.2 Americas Planetary Roller Screw Revenue by Country (2021-2026)

5.2 Americas Planetary Roller Screw Sales by Dynamic Load Capacity (kN) (2021-2026)

5.3 Americas Planetary Roller Screw Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Planetary Roller Screw Sales by Region

6.1.1 APAC Planetary Roller Screw Sales by Region (2021-2026)

6.1.2 APAC Planetary Roller Screw Revenue by Region (2021-2026)

6.2 APAC Planetary Roller Screw Sales by Dynamic Load Capacity (kN) (2021-2026)

6.3 APAC Planetary Roller Screw Sales by Application (2021-2026)

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 Planetary Roller Screw by Country

7.1.1 Europe Planetary Roller Screw Sales by Country (2021-2026)

7.1.2 Europe Planetary Roller Screw Revenue by Country (2021-2026)

7.2 Europe Planetary Roller Screw Sales by Dynamic Load Capacity (kN) (2021-2026)

7.3 Europe Planetary Roller Screw Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Planetary Roller Screw by Country

8.1.1 Middle East & Africa Planetary Roller Screw Sales by Country (2021-2026)

8.1.2 Middle East & Africa Planetary Roller Screw Revenue by Country (2021-2026)

8.2 Middle East & Africa Planetary Roller Screw Sales by Dynamic Load Capacity (kN) (2021-2026)

8.3 Middle East & Africa Planetary Roller Screw Sales by Application (2021-2026)

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 Planetary Roller Screw
- 10.3 Manufacturing Process Analysis of Planetary Roller Screw
- 10.4 Industry Chain Structure of Planetary Roller Screw

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Planetary Roller Screw Distributors
- 11.3 Planetary Roller Screw Customer

12 WORLD FORECAST REVIEW FOR PLANETARY ROLLER SCREW BY GEOGRAPHIC REGION

- 12.1 Global Planetary Roller Screw Market Size Forecast by Region
 - 12.1.1 Global Planetary Roller Screw Forecast by Region (2027-2032)
 - 12.1.2 Global Planetary Roller Screw Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Planetary Roller Screw Forecast by Dynamic Load Capacity (kN) (2027-2032)
- 12.7 Global Planetary Roller Screw Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Schaeffler (Ewellix)
 - 13.1.1 Schaeffler (Ewellix) Company Information
 - 13.1.2 Schaeffler (Ewellix) Planetary Roller Screw Product Portfolios and Specifications
 - 13.1.3 Schaeffler (Ewellix) Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Schaeffler (Ewellix) Main Business Overview
 - 13.1.5 Schaeffler (Ewellix) Latest Developments
- 13.2 Bosch Rexroth
 - 13.2.1 Bosch Rexroth Company Information

- 13.2.2 Bosch Rexroth Planetary Roller Screw Product Portfolios and Specifications
- 13.2.3 Bosch Rexroth Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Bosch Rexroth Main Business Overview
- 13.2.5 Bosch Rexroth Latest Developments
- 13.3 GSA
 - 13.3.1 GSA Company Information
 - 13.3.2 GSA Planetary Roller Screw Product Portfolios and Specifications
 - 13.3.3 GSA Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 GSA Main Business Overview
 - 13.3.5 GSA Latest Developments
- 13.4 Rollvis
 - 13.4.1 Rollvis Company Information
 - 13.4.2 Rollvis Planetary Roller Screw Product Portfolios and Specifications
 - 13.4.3 Rollvis Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Rollvis Main Business Overview
 - 13.4.5 Rollvis Latest Developments
- 13.5 Nook Industries
 - 13.5.1 Nook Industries Company Information
 - 13.5.2 Nook Industries Planetary Roller Screw Product Portfolios and Specifications
 - 13.5.3 Nook Industries Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Nook Industries Main Business Overview
 - 13.5.5 Nook Industries Latest Developments
- 13.6 Moog
 - 13.6.1 Moog Company Information
 - 13.6.2 Moog Planetary Roller Screw Product Portfolios and Specifications
 - 13.6.3 Moog Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Moog Main Business Overview
 - 13.6.5 Moog Latest Developments
- 13.7 Tolomatic
 - 13.7.1 Tolomatic Company Information
 - 13.7.2 Tolomatic Planetary Roller Screw Product Portfolios and Specifications
 - 13.7.3 Tolomatic Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Tolomatic Main Business Overview

- 13.7.5 Tolomatic Latest Developments
- 13.8 Creative Motion Control
 - 13.8.1 Creative Motion Control Company Information
 - 13.8.2 Creative Motion Control Planetary Roller Screw Product Portfolios and Specifications
 - 13.8.3 Creative Motion Control Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Creative Motion Control Main Business Overview
 - 13.8.5 Creative Motion Control Latest Developments
- 13.9 Lim-Tec
 - 13.9.1 Lim-Tec Company Information
 - 13.9.2 Lim-Tec Planetary Roller Screw Product Portfolios and Specifications
 - 13.9.3 Lim-Tec Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Lim-Tec Main Business Overview
 - 13.9.5 Lim-Tec Latest Developments
- 13.10 Power Jacks
 - 13.10.1 Power Jacks Company Information
 - 13.10.2 Power Jacks Planetary Roller Screw Product Portfolios and Specifications
 - 13.10.3 Power Jacks Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Power Jacks Main Business Overview
 - 13.10.5 Power Jacks Latest Developments
- 13.11 Kugel Motion
 - 13.11.1 Kugel Motion Company Information
 - 13.11.2 Kugel Motion Planetary Roller Screw Product Portfolios and Specifications
 - 13.11.3 Kugel Motion Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Kugel Motion Main Business Overview
 - 13.11.5 Kugel Motion Latest Developments
- 13.12 KOFON
 - 13.12.1 KOFON Company Information
 - 13.12.2 KOFON Planetary Roller Screw Product Portfolios and Specifications
 - 13.12.3 KOFON Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 KOFON Main Business Overview
 - 13.12.5 KOFON Latest Developments
- 13.13 Curtiss-Wright Exlar
 - 13.13.1 Curtiss-Wright Exlar Company Information

- 13.13.2 Curtiss-Wright Exlar Planetary Roller Screw Product Portfolios and Specifications
- 13.13.3 Curtiss-Wright Exlar Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.13.4 Curtiss-Wright Exlar Main Business Overview
- 13.13.5 Curtiss-Wright Exlar Latest Developments
- 13.14 U-SCREWS
 - 13.14.1 U-SCREWS Company Information
 - 13.14.2 U-SCREWS Planetary Roller Screw Product Portfolios and Specifications
 - 13.14.3 U-SCREWS Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 U-SCREWS Main Business Overview
 - 13.14.5 U-SCREWS Latest Developments
- 13.15 Kammerer Gewindetechnik
 - 13.15.1 Kammerer Gewindetechnik Company Information
 - 13.15.2 Kammerer Gewindetechnik Planetary Roller Screw Product Portfolios and Specifications
 - 13.15.3 Kammerer Gewindetechnik Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Kammerer Gewindetechnik Main Business Overview
 - 13.15.5 Kammerer Gewindetechnik Latest Developments
- 13.16 Qinchuan Machine Tool
 - 13.16.1 Qinchuan Machine Tool Company Information
 - 13.16.2 Qinchuan Machine Tool Planetary Roller Screw Product Portfolios and Specifications
 - 13.16.3 Qinchuan Machine Tool Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Qinchuan Machine Tool Main Business Overview
 - 13.16.5 Qinchuan Machine Tool Latest Developments
- 13.17 Xi'an Fangyuanming Technology
 - 13.17.1 Xi'an Fangyuanming Technology Company Information
 - 13.17.2 Xi'an Fangyuanming Technology Planetary Roller Screw Product Portfolios and Specifications
 - 13.17.3 Xi'an Fangyuanming Technology Planetary Roller Screw Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 Xi'an Fangyuanming Technology Main Business Overview
 - 13.17.5 Xi'an Fangyuanming Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Planetary Roller Screw Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Planetary Roller Screw Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of up to 500 kN

Table 4. Major Players of 500 - 1500 kN

Table 5. Major Players of 1500 - 2500 kN

Table 6. Major Players of 2500 - 3000 kN

Table 7. Major Players of Other

Table 8. Global Planetary Roller Screw Sales by Dynamic Load Capacity (kN) (2021-2026) & (K Units)

Table 9. Global Planetary Roller Screw Sales Market Share by Dynamic Load Capacity (kN) (2021-2026)

Table 10. Global Planetary Roller Screw Revenue by Dynamic Load Capacity (kN) (2021-2026) & (\$ million)

Table 11. Global Planetary Roller Screw Revenue Market Share by Dynamic Load Capacity (kN) (2021-2026)

Table 12. Global Planetary Roller Screw Sale Price by Dynamic Load Capacity (kN) (2021-2026) & (US\$/Unit)

Table 13. Major Players of Standard

Table 14. Major Players of Recirculating

Table 15. Major Players of Inverted

Table 16. Major Players of Differential Type

Table 17. Global Planetary Roller Screw Sales by Nut Form (2021-2026) & (K Units)

Table 18. Global Planetary Roller Screw Sales Market Share by Nut Form (2021-2026)

Table 19. Global Planetary Roller Screw Revenue by Nut Form (2021-2026) & (\$ million)

Table 20. Global Planetary Roller Screw Revenue Market Share by Nut Form (2021-2026)

Table 21. Global Planetary Roller Screw Sale Price by Nut Form (2021-2026) & (US\$/Unit)

Table 22. Major Players of Non-preloaded

Table 23. Major Players of Preloaded

Table 24. Major Players of Cylindrical Nut

Table 25. Major Players of Flanged Nut

Table 26. Major Players of Eccentric Flange

Table 27. Global Planetary Roller Screw Sale by Application (2021-2026) & (K Units)

Table 28. Global Planetary Roller Screw Sale Market Share by Application (2021-2026)

Table 29. Global Planetary Roller Screw Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Planetary Roller Screw Revenue Market Share by Application (2021-2026)

Table 31. Global Planetary Roller Screw Sale Price by Application (2021-2026) & (US\$/Unit)

Table 32. Global Planetary Roller Screw Sales by Company (2021-2026) & (K Units)

Table 33. Global Planetary Roller Screw Sales Market Share by Company (2021-2026)

Table 34. Global Planetary Roller Screw Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global Planetary Roller Screw Revenue Market Share by Company (2021-2026)

Table 36. Global Planetary Roller Screw Sale Price by Company (2021-2026) & (US\$/Unit)

Table 37. Key Manufacturers Planetary Roller Screw Producing Area Distribution and Sales Area

Table 38. Players Planetary Roller Screw Products Offered

Table 39. Planetary Roller Screw Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global Planetary Roller Screw Sales by Geographic Region (2021-2026) & (K Units)

Table 43. Global Planetary Roller Screw Sales Market Share Geographic Region (2021-2026)

Table 44. Global Planetary Roller Screw Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Planetary Roller Screw Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Planetary Roller Screw Sales by Country/Region (2021-2026) & (K Units)

Table 47. Global Planetary Roller Screw Sales Market Share by Country/Region (2021-2026)

Table 48. Global Planetary Roller Screw Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Planetary Roller Screw Revenue Market Share by Country/Region

(2021-2026)

Table 50. Americas Planetary Roller Screw Sales by Country (2021-2026) & (K Units)

Table 51. Americas Planetary Roller Screw Sales Market Share by Country (2021-2026)

Table 52. Americas Planetary Roller Screw Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Planetary Roller Screw Sales by Dynamic Load Capacity (kN) (2021-2026) & (K Units)

Table 54. Americas Planetary Roller Screw Sales by Application (2021-2026) & (K Units)

Table 55. APAC Planetary Roller Screw Sales by Region (2021-2026) & (K Units)

Table 56. APAC Planetary Roller Screw Sales Market Share by Region (2021-2026)

Table 57. APAC Planetary Roller Screw Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Planetary Roller Screw Sales by Dynamic Load Capacity (kN) (2021-2026) & (K Units)

Table 59. APAC Planetary Roller Screw Sales by Application (2021-2026) & (K Units)

Table 60. Europe Planetary Roller Screw Sales by Country (2021-2026) & (K Units)

Table 61. Europe Planetary Roller Screw Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Planetary Roller Screw Sales by Dynamic Load Capacity (kN) (2021-2026) & (K Units)

Table 63. Europe Planetary Roller Screw Sales by Application (2021-2026) & (K Units)

Table 64. Middle East & Africa Planetary Roller Screw Sales by Country (2021-2026) & (K Units)

Table 65. Middle East & Africa Planetary Roller Screw Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Planetary Roller Screw Sales by Dynamic Load Capacity (kN) (2021-2026) & (K Units)

Table 67. Middle East & Africa Planetary Roller Screw Sales by Application (2021-2026) & (K Units)

Table 68. Key Market Drivers & Growth Opportunities of Planetary Roller Screw

Table 69. Key Market Challenges & Risks of Planetary Roller Screw

Table 70. Key Industry Trends of Planetary Roller Screw

Table 71. Planetary Roller Screw Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Planetary Roller Screw Distributors List

Table 74. Planetary Roller Screw Customer List

Table 75. Global Planetary Roller Screw Sales Forecast by Region (2027-2032) & (K Units)

Table 76. Global Planetary Roller Screw Revenue Forecast by Region (2027-2032) & (\$

millions)

Table 77. Americas Planetary Roller Screw Sales Forecast by Country (2027-2032) & (K Units)

Table 78. Americas Planetary Roller Screw Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC Planetary Roller Screw Sales Forecast by Region (2027-2032) & (K Units)

Table 80. APAC Planetary Roller Screw Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe Planetary Roller Screw Sales Forecast by Country (2027-2032) & (K Units)

Table 82. Europe Planetary Roller Screw Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Planetary Roller Screw Sales Forecast by Country (2027-2032) & (K Units)

Table 84. Middle East & Africa Planetary Roller Screw Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Planetary Roller Screw Sales Forecast by Dynamic Load Capacity (kN) (2027-2032) & (K Units)

Table 86. Global Planetary Roller Screw Revenue Forecast by Dynamic Load Capacity (kN) (2027-2032) & (\$ millions)

Table 87. Global Planetary Roller Screw Sales Forecast by Application (2027-2032) & (K Units)

Table 88. Global Planetary Roller Screw Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. Schaeffler (Ewellix) Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 90. Schaeffler (Ewellix) Planetary Roller Screw Product Portfolios and Specifications

Table 91. Schaeffler (Ewellix) Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. Schaeffler (Ewellix) Main Business

Table 93. Schaeffler (Ewellix) Latest Developments

Table 94. Bosch Rexroth Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 95. Bosch Rexroth Planetary Roller Screw Product Portfolios and Specifications

Table 96. Bosch Rexroth Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. Bosch Rexroth Main Business

Table 98. Bosch Rexroth Latest Developments

Table 99. GSA Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 100. GSA Planetary Roller Screw Product Portfolios and Specifications

Table 101. GSA Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. GSA Main Business

Table 103. GSA Latest Developments

Table 104. Rollvis Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 105. Rollvis Planetary Roller Screw Product Portfolios and Specifications

Table 106. Rollvis Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. Rollvis Main Business

Table 108. Rollvis Latest Developments

Table 109. Nook Industries Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 110. Nook Industries Planetary Roller Screw Product Portfolios and Specifications

Table 111. Nook Industries Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Nook Industries Main Business

Table 113. Nook Industries Latest Developments

Table 114. Moog Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 115. Moog Planetary Roller Screw Product Portfolios and Specifications

Table 116. Moog Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. Moog Main Business

Table 118. Moog Latest Developments

Table 119. Tolomatic Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 120. Tolomatic Planetary Roller Screw Product Portfolios and Specifications

Table 121. Tolomatic Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Tolomatic Main Business

Table 123. Tolomatic Latest Developments

Table 124. Creative Motion Control Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 125. Creative Motion Control Planetary Roller Screw Product Portfolios and

Specifications

Table 126. Creative Motion Control Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Creative Motion Control Main Business

Table 128. Creative Motion Control Latest Developments

Table 129. Lim-Tec Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 130. Lim-Tec Planetary Roller Screw Product Portfolios and Specifications

Table 131. Lim-Tec Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Lim-Tec Main Business

Table 133. Lim-Tec Latest Developments

Table 134. Power Jacks Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 135. Power Jacks Planetary Roller Screw Product Portfolios and Specifications

Table 136. Power Jacks Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 137. Power Jacks Main Business

Table 138. Power Jacks Latest Developments

Table 139. Kugel Motion Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 140. Kugel Motion Planetary Roller Screw Product Portfolios and Specifications

Table 141. Kugel Motion Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 142. Kugel Motion Main Business

Table 143. Kugel Motion Latest Developments

Table 144. KOFON Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 145. KOFON Planetary Roller Screw Product Portfolios and Specifications

Table 146. KOFON Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 147. KOFON Main Business

Table 148. KOFON Latest Developments

Table 149. Curtiss-Wright Exlar Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 150. Curtiss-Wright Exlar Planetary Roller Screw Product Portfolios and Specifications

Table 151. Curtiss-Wright Exlar Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 152. Curtiss-Wright Exlar Main Business

Table 153. Curtiss-Wright Exlar Latest Developments

Table 154. U-SCREWS Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 155. U-SCREWS Planetary Roller Screw Product Portfolios and Specifications

Table 156. U-SCREWS Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 157. U-SCREWS Main Business

Table 158. U-SCREWS Latest Developments

Table 159. Kammerer Gewindetechnik Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 160. Kammerer Gewindetechnik Planetary Roller Screw Product Portfolios and Specifications

Table 161. Kammerer Gewindetechnik Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 162. Kammerer Gewindetechnik Main Business

Table 163. Kammerer Gewindetechnik Latest Developments

Table 164. Qinchuan Machine Tool Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 165. Qinchuan Machine Tool Planetary Roller Screw Product Portfolios and Specifications

Table 166. Qinchuan Machine Tool Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 167. Qinchuan Machine Tool Main Business

Table 168. Qinchuan Machine Tool Latest Developments

Table 169. Xi'an Fangyuanming Technology Basic Information, Planetary Roller Screw Manufacturing Base, Sales Area and Its Competitors

Table 170. Xi'an Fangyuanming Technology Planetary Roller Screw Product Portfolios and Specifications

Table 171. Xi'an Fangyuanming Technology Planetary Roller Screw Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 172. Xi'an Fangyuanming Technology Main Business

Table 173. Xi'an Fangyuanming Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Planetary Roller Screw
- Figure 2. Planetary Roller Screw Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Planetary Roller Screw Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Planetary Roller Screw Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Planetary Roller Screw Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Planetary Roller Screw Sales Market Share by Country/Region (2025)
- Figure 10. Planetary Roller Screw Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of up to 500 kN
- Figure 12. Product Picture of 500 - 1500 kN
- Figure 13. Product Picture of 1500 - 2500 kN
- Figure 14. Product Picture of 2500 - 3000 kN
- Figure 15. Product Picture of Other
- Figure 16. Global Planetary Roller Screw Sales Market Share by Dynamic Load Capacity (kN) in 2026
- Figure 17. Global Planetary Roller Screw Revenue Market Share by Dynamic Load Capacity (kN) (2021-2026)
- Figure 18. Product Picture of Standard
- Figure 19. Product Picture of Recirculating
- Figure 20. Product Picture of Inverted
- Figure 21. Product Picture of Differential Type
- Figure 22. Global Planetary Roller Screw Sales Market Share by Nut Form in 2026
- Figure 23. Global Planetary Roller Screw Revenue Market Share by Nut Form (2021-2026)
- Figure 24. Product Picture of Non-preloaded
- Figure 25. Product Picture of Preloaded
- Figure 26. Product Picture of Cylindrical Nut
- Figure 27. Product Picture of Flanged Nut
- Figure 28. Product Picture of Eccentric Flange
- Figure 29. Planetary Roller Screw Consumed in Robotics
- Figure 30. Global Planetary Roller Screw Market: Robotics (2021-2026) & (K Units)

- Figure 31. Planetary Roller Screw Consumed in Automation
- Figure 32. Global Planetary Roller Screw Market: Automation (2021-2026) & (K Units)
- Figure 33. Planetary Roller Screw Consumed in Oil & Gas
- Figure 34. Global Planetary Roller Screw Market: Oil & Gas (2021-2026) & (K Units)
- Figure 35. Planetary Roller Screw Consumed in Aerospace
- Figure 36. Global Planetary Roller Screw Market: Aerospace (2021-2026) & (K Units)
- Figure 37. Planetary Roller Screw Consumed in Vehicles
- Figure 38. Global Planetary Roller Screw Market: Vehicles (2021-2026) & (K Units)
- Figure 39. Planetary Roller Screw Consumed in Others
- Figure 40. Global Planetary Roller Screw Market: Others (2021-2026) & (K Units)
- Figure 41. Global Planetary Roller Screw Sale Market Share by Application (2025)
- Figure 42. Global Planetary Roller Screw Revenue Market Share by Application in 2026
- Figure 43. Planetary Roller Screw Sales by Company in 2026 (K Units)
- Figure 44. Global Planetary Roller Screw Sales Market Share by Company in 2026
- Figure 45. Planetary Roller Screw Revenue by Company in 2026 (\$ millions)
- Figure 46. Global Planetary Roller Screw Revenue Market Share by Company in 2026
- Figure 47. Global Planetary Roller Screw Sales Market Share by Geographic Region (2021-2026)
- Figure 48. Global Planetary Roller Screw Revenue Market Share by Geographic Region in 2026
- Figure 49. Americas Planetary Roller Screw Sales 2021-2026 (K Units)
- Figure 50. Americas Planetary Roller Screw Revenue 2021-2026 (\$ millions)
- Figure 51. APAC Planetary Roller Screw Sales 2021-2026 (K Units)
- Figure 52. APAC Planetary Roller Screw Revenue 2021-2026 (\$ millions)
- Figure 53. Europe Planetary Roller Screw Sales 2021-2026 (K Units)
- Figure 54. Europe Planetary Roller Screw Revenue 2021-2026 (\$ millions)
- Figure 55. Middle East & Africa Planetary Roller Screw Sales 2021-2026 (K Units)
- Figure 56. Middle East & Africa Planetary Roller Screw Revenue 2021-2026 (\$ millions)
- Figure 57. Americas Planetary Roller Screw Sales Market Share by Country in 2026
- Figure 58. Americas Planetary Roller Screw Revenue Market Share by Country (2021-2026)
- Figure 59. Americas Planetary Roller Screw Sales Market Share by Dynamic Load Capacity (kN) (2021-2026)
- Figure 60. Americas Planetary Roller Screw Sales Market Share by Application (2021-2026)
- Figure 61. United States Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)
- Figure 62. Canada Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)
- Figure 63. Mexico Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 64. Brazil Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 65. APAC Planetary Roller Screw Sales Market Share by Region in 2026

Figure 66. APAC Planetary Roller Screw Revenue Market Share by Region (2021-2026)

Figure 67. APAC Planetary Roller Screw Sales Market Share by Dynamic Load Capacity (kN) (2021-2026)

Figure 68. APAC Planetary Roller Screw Sales Market Share by Application (2021-2026)

Figure 69. China Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 70. Japan Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 71. South Korea Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 72. Southeast Asia Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 73. India Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 74. Australia Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 75. China Taiwan Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 76. Europe Planetary Roller Screw Sales Market Share by Country in 2026

Figure 77. Europe Planetary Roller Screw Revenue Market Share by Country (2021-2026)

Figure 78. Europe Planetary Roller Screw Sales Market Share by Dynamic Load Capacity (kN) (2021-2026)

Figure 79. Europe Planetary Roller Screw Sales Market Share by Application (2021-2026)

Figure 80. Germany Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 81. France Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 82. UK Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 83. Italy Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 84. Russia Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 85. Middle East & Africa Planetary Roller Screw Sales Market Share by Country (2021-2026)

Figure 86. Middle East & Africa Planetary Roller Screw Sales Market Share by Dynamic Load Capacity (kN) (2021-2026)

Figure 87. Middle East & Africa Planetary Roller Screw Sales Market Share by Application (2021-2026)

Figure 88. Egypt Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 89. South Africa Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 90. Israel Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 91. Turkey Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 92. GCC Countries Planetary Roller Screw Revenue Growth 2021-2026 (\$ millions)

Figure 93. Manufacturing Cost Structure Analysis of Planetary Roller Screw in 2026

Figure 94. Manufacturing Process Analysis of Planetary Roller Screw

Figure 95. Industry Chain Structure of Planetary Roller Screw

Figure 96. Channels of Distribution

Figure 97. Global Planetary Roller Screw Sales Market Forecast by Region (2027-2032)

Figure 98. Global Planetary Roller Screw Revenue Market Share Forecast by Region (2027-2032)

Figure 99. Global Planetary Roller Screw Sales Market Share Forecast by Dynamic Load Capacity (kN) (2027-2032)

Figure 100. Global Planetary Roller Screw Revenue Market Share Forecast by Dynamic Load Capacity (kN) (2027-2032)

Figure 101. Global Planetary Roller Screw Sales Market Share Forecast by Application (2027-2032)

Figure 102. Global Planetary Roller Screw Revenue Market Share Forecast by Application (2027-2032)

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