

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

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Abstracts

The global Reversed Planetary Roller Screw market size is expected to reach \$ 352 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

In 2025, global Reversed Planetary Roller Screw production reached approximately 82k units, with an average global market price of around US\$ 2700 per unit.

A Reversed Planetary Roller Screw is a high-load, high-stiffness precision linear motion component and a specific configuration within the planetary roller screw family. Its key feature is a 'reversed' helical engagement concept between the rollers and the screw/nut, allowing multiple rollers to transmit load simultaneously through rolling contact and convert rotary motion into linear motion with high efficiency and low backlash. Compared with ball screws, it typically offers higher thrust density, better shock robustness, and longer fatigue life, making it well suited for high-thrust electromechanical actuators, aerospace actuation, and advanced automation equipment.

Upstream for reversed planetary roller screws includes high-cleanliness alloy/bearing steels and bar stock (for screw shafts, nuts, and rollers), heat treatment and surface enhancement materials/processes (carburizing, nitriding, PVD coatings), ultra-precision grinding/rolling equipment, metrology tools, and high-performance lubricants. Midstream precision motion suppliers perform ultra-precision machining and matched assembly (tolerances, coaxiality, surface finish, preload/backlash control) plus durability and reliability validation. Downstream applications focus on electromechanical linear actuators, robotics and automation, aerospace actuation systems, and high-end equipment such as semiconductor tools and machine tools. Representative upstream steel suppliers include Ovako, Nippon Steel, and TimkenSteel; downstream user groups include aerospace system integrators, robotics/automation OEMs, and advanced machine tool and semiconductor equipment manufacturers.

The annual production capacity of a single-line Reversed Planetary Roller Screw is approximately 3k units, with a gross profit margin of approximately 40%-60%. The reversed planetary roller screw segment represents a high-barrier niche within the linear motion transmission market, characterized by strong requirements for reliability and thrust density and limited substitution options. As electromechanical actuators increasingly replace hydraulic systems in aerospace, industrial automation, and advanced equipment, the inherent limitations of ball screws in load capacity, fatigue life, and robustness are becoming more evident, accelerating adoption of planetary roller screws?particularly reverse configurations?in compact, high-load applications. Industry trends point toward higher precision, longer service life, and broader environmental adaptability, accompanied by rising demands for manufacturing consistency, process control, and life-cycle validation. Key drivers include electrification of actuation systems, localization of high-end equipment supply chains, and stricter reliability requirements, while headwinds include complex manufacturing, high capital and R&D intensity, long validation cycles, and stringent customer qualification processes. Overall, the market is characterized by limited volume but high value density, favoring suppliers with deep expertise in materials, processes, and system-level application knowledge.

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

This report is a detailed and comprehensive analysis of the world market for Reversed Planetary 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 Reversed Planetary Roller Screw that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Reversed Planetary Roller Screw total production and demand, 2021-2032, (K Units)

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

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

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

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

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

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

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

This report profiles key players in the global Reversed Planetary 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, Moog Inc., Ewellix, Rollvis SA, Bosch Rexroth, Curtiss-Wright, Nook Industries, Ortlieb Prazisions, Rodriguez GmbH, U-Screws, 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 Reversed Planetary Roller Screw market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Reversed Planetary Roller Screw Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Reversed Planetary Roller Screw Market, Segmentation by Type:

RGTI Series

RGTRI Series

Global Reversed Planetary Roller Screw Market, Segmentation by Diameter:

Small Diameter

Medium-Large Diameter

Global Reversed Planetary Roller Screw Market, Segmentation by Exercise Methods:

Non-recirculating

Recirculating

Global Reversed Planetary Roller Screw Market, Segmentation by Application:

CNC Machine Tools

Industrial Robots

Aerospace

Armament

Other

Companies Profiled:

Schaeffler

Moog Inc.

Ewellix

Rollvis SA

Bosch Rexroth

Curtiss-Wright

Nook Industries

Ortlieb Prazisions

Rodriguez GmbH

U-Screws

Imhof Husermann AG

Zhenyu Technology

Seenpin

Lim Tec

Shuanglin Group

Changban Robot Technology

Key Questions Answered:

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

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