

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

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Abstracts

The global Recirculating Planetary Roller Screws market size is expected to reach \$ 84.85 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

The reciprocating planetary roller screw is a high-precision, high-load linear transmission device. Its core feature is the axial reciprocating motion of planetary rollers within the nut. Through a cam ring or return groove structure, the rollers reset their position after completing one orbital stroke, resulting in extremely high positioning accuracy, rigidity, and load-bearing capacity. It is particularly suitable for long-stroke, high-frequency precision positioning applications.

The reciprocating planetary roller screw industry chain is a closed-loop system comprised of high-strength alloy steel research and development, ultra-precision cold stamping/grinding processing, and high-end system integration. The upstream core lies in the supply of high-performance special steels (such as high-purity bearing steel and die steel), and the support of precision machining equipment such as high-precision CNC grinding machines and thread rolling machines. The performance of these machines directly determines the lead accuracy of the screw. The difference in the recirculating design is that the rollers are ground but have no thread angle, so the rollers move axially within the nut and reset or recirculate after each pass through the track. This structure provides extremely precise linear motion.

In 2025, global sales of recirculating planetary roller screws were approximately 28,000 units, with a market price of \$2,000 per unit and an industry gross margin ranging from 30% to 40%.

Compared to standard planetary roller screws, the recirculating structure achieves smaller leads and higher stiffness through the cyclic flow of rollers, giving it unparalleled advantages in power density and space utilization. The primary driving force behind this industry's leapfrog development comes from the definite explosive growth of the humanoid robot industry. As a core component of linear joint actuators, the recirculating planetary roller screw provides the small lead and high thrust characteristics required for dexterous hand and limb movements; this rigid demand has forced the rapid maturation of the industry chain. Simultaneously, the transformation from electro-hydraulic servo systems to all-electric actuators (EHA) in the aerospace field, and the extreme pursuit of micron-level positioning accuracy in high-precision CNC machine tools, continue to drive the growth of high-end orders.

Furthermore, breakthroughs in precision grinding and hard milling technologies have enabled greater consistency in previously extremely difficult-to-machine circulation channels and multi-start threads. The increased production efficiency resulting from technological advancements is significantly reducing the marginal cost per unit, clearing physical barriers to large-scale commercial applications.

Despite surging demand, the industry still faces significant manufacturing barriers and cost bottlenecks. The most significant obstacle lies in its extremely high process complexity. The circulation structure involves intricate internal nut recirculation designs, requiring sub-micron level geometric tolerances and assembly precision.

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

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

Highlights and key features of the study

Global Recirculating Planetary Roller Screws total production and demand, 2021-2032, (K Units)

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

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

site)

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

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

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

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

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

This report profiles key players in the global Recirculating Planetary Roller Screws 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), Rollvis SA, GSA, U-SCREWS, Lim-Tec, ALT Roller Screws, Shandong Wantong Hydraulic, Nanjing Technical Equipment Manufacture, Hubei Kofon Transmission Equipment, 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 Planetary Roller Screws 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 Recirculating Planetary Roller Screws Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Recirculating Planetary Roller Screws Market, Segmentation by Type:

Single Head

Double Head

Global Recirculating Planetary Roller Screws Market, Segmentation by Precision Grade:

Ultra-precision

Industrial Grade

Global Recirculating Planetary Roller Screws Market, Segmentation by Structure:

Standard Circulation Type

Reverse Circulation Type

Global Recirculating Planetary Roller Screws Market, Segmentation by Application:

Precision Machine Tools

Robots

Medical Equipment

Aerospace

Scientific Research

Other

Companies Profiled:

Schaeffler (Ewellix)

Rollvis SA

GSA

U-SCREWS

Lim-Tec

ALT Roller Screws

Shandong Wantong Hydraulic

Nanjing Technical Equipment Manufacture

Hubei Kofon Transmission Equipment

Key Questions Answered:

1. How big is the global Recirculating Planetary Roller Screws market?
2. What is the demand of the global Recirculating Planetary Roller Screws market?
3. What is the year over year growth of the global Recirculating Planetary Roller Screws market?
4. What is the production and production value of the global Recirculating Planetary Roller Screws market?

5. Who are the key producers in the global Recirculating Planetary Roller Screws market?
6. What are the growth factors driving the market demand?

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