

Global Recirculating Planetary Roller Screws Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Recirculating Planetary Roller Screws market size was valued at US\$ 57.62 million in 2025 and is forecast to a readjusted size of US\$ 84.85 million by 2032 with a CAGR of 5.7% during review period.

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

Key Features:

Global Recirculating Planetary Roller Screws market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Recirculating Planetary Roller Screws market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Recirculating Planetary Roller Screws market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Recirculating Planetary Roller Screws market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Recirculating Planetary Roller Screws
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Recirculating Planetary Roller Screws market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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.

Market Segmentation

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

Market segment by Type

Single Head

Double Head

Market segment by Precision Grade

Ultra-precision

Industrial Grade

Market segment by Structure

Standard Circulation Type

Reverse Circulation Type

Market segment by Application

Precision Machine Tools

Robots

Medical Equipment

Aerospace

Scientific Research

Other

Major players covered

Schaeffler (Ewellix)

Rollvis SA

GSA

U-SCREWS

Lim-Tec

ALT Roller Screws

Shandong Wantong Hydraulic

Nanjing Technical Equipment Manufacture

Hubei Kofon Transmission Equipment

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

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

Chapter 1, to describe Recirculating Planetary Roller Screws product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Recirculating Planetary Roller Screws,

with price, sales quantity, revenue, and global market share of Recirculating Planetary Roller Screws from 2021 to 2026.

Chapter 3, the Recirculating Planetary Roller Screws competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Recirculating Planetary Roller Screws breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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

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

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Recirculating Planetary Roller Screws.

Chapter 14 and 15, to describe Recirculating Planetary Roller Screws sales channel, distributors, customers, research findings and conclusion.

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