

Global Recirculating Planetary Roller Screws Market Growth 2026-2032

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Abstracts

The global Recirculating Planetary Roller Screws market size is predicted to grow from US\$ 54.78 million in 2025 to US\$ 82.30 million in 2032; it is expected to grow at a CAGR of 6.0% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Recirculating Planetary Roller Screws Industry Forecast" looks at past sales and reviews total world Recirculating Planetary Roller Screws sales in 2025, providing a comprehensive analysis by region and market sector of projected Recirculating Planetary Roller Screws sales for 2026 through 2032. With Recirculating Planetary Roller Screws sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Recirculating Planetary Roller Screws industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Recirculating Planetary Roller Screws and breaks down the forecast by Type, 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 Recirculating Planetary Roller Screws.

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

Segmentation by Type:

Single Head

Double Head

Segmentation by Precision Grade:

Ultra-precision

Industrial Grade

Segmentation by Structure:

Standard Circulation Type

Reverse Circulation Type

Segmentation by Application:

Precision Machine Tools

Robots

Medical Equipment

Aerospace

Scientific Research

Other

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)

Rollvis SA

GSA

U-SCREWS

Lim-Tec

ALT Roller Screws

Shandong Wantong Hydraulic

Nanjing Technical Equipment Manufacture

Hubei Kofon Transmission Equipment

Key Questions Addressed in this Report

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

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

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

How do Recirculating Planetary Roller Screws market opportunities vary by end market size?

How does Recirculating Planetary Roller Screws break out by Type, by Application?

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