

Global Micro Planetary Roller Screw Market Growth 2026-2032

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Abstracts

The global Micro Planetary Roller Screw market size is predicted to grow from US\$ 84.13 million in 2025 to US\$ 556 million in 2032; it is expected to grow at a CAGR of 31.1% from 2026 to 2032.

Micro Planetary Roller Screw is a precision mechanical device that converts rotational motion into linear motion by planetarily arranging 6-12 threaded rollers around the main threaded screw, achieving high-precision micro-feed with small lead through optimized roller diameter and thread parameters while dispersing load through multi-contact point threaded engagement, thereby providing high load capacity, high stiffness, and long life in compact spaces while maintaining stable transmission characteristics of low vibration, low noise, and high responsiveness at micro scales. In 2025, global Micro Planetary Roller Screw production reached approximately 45.6 k units with an average global market price of around US\$1888 per unit.

United States market for Micro Planetary Roller Screw is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Micro Planetary Roller Screw is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Micro Planetary Roller Screw is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Micro Planetary Roller Screw players cover Schaeffler, Rollvis, GSA, Rexroth, Nook Industries, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Micro Planetary Roller Screw Industry Forecast" looks at past sales and reviews total world Micro Planetary Roller Screw sales in 2025, providing a comprehensive analysis by region and market sector of projected Micro Planetary Roller Screw sales for 2026 through 2032. With Micro 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 Micro Planetary Roller Screw industry.

This Insight Report provides a comprehensive analysis of the global Micro 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 Micro 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 Micro Planetary Roller Screw market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Micro Planetary Roller Screw 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 Micro Planetary Roller Screw.

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

Segmentation by Type:

Standard Planetary Roller Screw

Reverse Planetary Roller Screw

Circulating Planetary Roller Screw

Bearing Ring Planetary Roller Screw

Differential Planetary Roller Screw

Segmentation by Manufacturing Process:

Grinding

Rolling

Segmentation by Application:

New Energy & 3C

Robot Dexterous Hand

Medical Equipment

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

Rollvis

GSA

Rexroth

Nook Industries

Moog

Curtiss-Wright (Exlar)

Tolomatic

Creative Motion Control

Power Jacks

Kugel Motion

U-Screws Precision

Kofon Transmission Equipment

Lim-Tec

Fangyuanming Technology

Nous Robot

Shanghai KGG

Nanjing Technology and Equipment Manufacturing

Key Questions Addressed in this Report

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

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

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

How do Micro Planetary Roller Screw market opportunities vary by end market size?
How does Micro Planetary Roller Screw break out by Type, by Application?

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