

Global Roller Screws for Humanoid Robots Market Growth 2026-2032

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Abstracts

The global Roller Screws for Humanoid Robots market size is predicted to grow from US\$ 112 million in 2025 to US\$ 418 million in 2032; it is expected to grow at a CAGR of 20.7% from 2026 to 2032.

Roller Screw for Humanoid Robots refers to a high-precision linear motion device used within the joints and actuators of humanoid robots to convert rotational motion into linear motion. Unlike traditional ball screws that use spherical balls, roller screws use threaded rollers, offering greater load capacity, precision, and durability?ideal for the dynamic, high-performance requirements of humanoid robotic systems. In 2025, global Roller Screws for Humanoid Robots production reached approximately 57.5 k sets with an average global market price of around US\$2000 per set.

Future roller screws for humanoid robots will evolve towards high precision, high load-bearing capacity, and lightweight design, requiring enterprises to optimize materials and structural designs to meet the adaptation requirements of complex operating conditions for rigorous performance, thereby enhancing product technical barriers and pricing power to obtain higher revenue. With the in-depth development of intelligent manufacturing and emerging fields in humanoid robots, the demand for such products in core components such as precision joints will continue to grow, driving enterprises to expand production scale and optimize industrial chain layout to achieve economies of scale and profit growth. Technological innovation will become the foundation for enterprises, and increased R&D investment will help enterprises master core manufacturing processes, enhancing market competitiveness by providing customized solutions with high reliability and high rigidity, and propelling the industry towards a high-value transformation. Furthermore, benefiting from national policy support for high-end equipment manufacturing, enterprises are expected to seize market share in the

process of import substitution, enhancing brand influence and overall profitability.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Roller Screws for Humanoid Robots 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 Roller Screws for Humanoid Robots.

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

Segmentation by Type:

Standard Roller Screw

Inverted Roller Screw

Recirculating Roller Screw

Other

Segmentation by Dynamic Load Rating:

?10 kN

10?50 kN

50?200 kN

?200 kN

Segmentation by Material:

Bearing Steel

Alloy Steel

Stainless Steel

Others

Segmentation by Application:

Special Operation Robots

Medical Robots

Exoskeleton Robots

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.

Rollvis SA

GSA AG

Ewellix

Schaeffler (Ewellix)

Bosch Rexroth

Nook Industries

Moog

Tolomatic

Creative Motion Control

Power Jacks

Curtiss-Wright Exlar

U-SCREWS

Qinchuan Machine Tool & Tool Group Share

Xi'an fangyuanming Technology

Shanghai KGG Robots

Hangzhou Seenpin Electromechanical Transmission

Key Questions Addressed in this Report

What is the 10-year outlook for the global Roller Screws for Humanoid Robots market?

What factors are driving Roller Screws for Humanoid Robots market growth, globally and by region?

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

How do Roller Screws for Humanoid Robots market opportunities vary by end market size?

How does Roller Screws for Humanoid Robots break out by Type, by Application?

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