

Global Roller Screws for Humanoid Robots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Roller Screws for Humanoid Robots market size is expected to reach \$ 414 million by 2032, rising at a market growth of 19.5% CAGR during the forecast period (2026-2032).

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.

This report studies the global Roller Screws for Humanoid Robots production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Roller Screws for Humanoid Robots total production and demand, 2021-2032, (Units)

Global Roller Screws for Humanoid Robots total production value, 2021-2032, (USD Million)

Global Roller Screws for Humanoid Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Roller Screws for Humanoid Robots consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Roller Screws for Humanoid Robots domestic production, consumption, key domestic manufacturers and share

Global Roller Screws for Humanoid Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Roller Screws for Humanoid Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Roller Screws for Humanoid Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Roller Screws for Humanoid Robots 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 Rollvis SA, GSA AG, Ewellix, Schaeffler (Ewellix), Bosch Rexroth, Nook Industries, Moog, Tolomatic, Creative Motion Control, Power Jacks, 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 Roller Screws for Humanoid Robots market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Roller Screws for Humanoid Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Roller Screws for Humanoid Robots Market, Segmentation by Type:

Standard Roller Screw

Inverted Roller Screw

Recirculating Roller Screw

Other

Global Roller Screws for Humanoid Robots Market, Segmentation by Dynamic Load Rating:

?10 kN

10?50 kN

50?200 kN

?200 kN

Global Roller Screws for Humanoid Robots Market, Segmentation by Material:

Bearing Steel

Alloy Steel

Stainless Steel

Others

Global Roller Screws for Humanoid Robots Market, Segmentation by Application:

Special Operation Robots

Medical Robots

Exoskeleton Robots

Other

Companies Profiled:

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 Answered:

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

Humanoid Robots market?

5. Who are the key producers in the global Roller Screws for Humanoid Robots market?

6. What are the growth factors driving the market demand?

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