

# Global Humanoid Robot Roller Screw Market Growth 2026-2032

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## Abstracts

The global Humanoid Robot Roller Screw market size is predicted to grow from US\$ 23.23 million in 2025 to US\$ 137 million in 2032; it is expected to grow at a CAGR of 28.9% from 2026 to 2032.

A humanoid robot roller screw is a high-precision linear motion component that converts rotary motion into linear motion using multiple threaded rollers between the screw shaft and nut. Compared with ball screws, roller screws offer significantly higher load capacity, stiffness, and fatigue life, making them particularly suitable for humanoid robot joints that require compact design, high force density, and long-term reliability under repetitive motion cycles. In 2025, global humanoid robot roller screw production reached approximately 15.71 k units. Global production capacity in 2025 is approximately 19 k units. Key raw materials for humanoid robot roller screw include alloy structural steel and high-carbon chromium bearing steel; typical suppliers include Voestalpine, Nippon Steel, and Timken. Downstream applications are dominated by humanoid robot OEMs and actuator module suppliers, where roller screws are integrated into high-force joint systems for locomotion and posture control.

The humanoid robot roller screw market is at an early transition stage, evolving from mature industrial applications toward robot-specific, high-performance use cases. As humanoid robots increasingly demand high force density, stiffness, and fatigue life for dynamic locomotion and repetitive motion, planetary and inverted planetary roller screws have emerged as preferred solutions for critical joints. In terms of industry evolution, the current market is still dominated by standalone roller screw components. However, as humanoid robots move toward higher levels of integration and scalable manufacturing, the market is expected to shift progressively toward integrated roller screw actuators, driving an increase in value per joint. At the same time, cost pressures

may lead to partial substitution by ball screws in non-load-bearing joints, resulting in a structurally segmented market characterized by high-end rigidity-driven demand and selective cost-driven alternatives.

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

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

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

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

Segmentation by Type:

Light-load?20 kN?

Segmentation by Architecture:

Standard

Inverted

Others

Segmentation by Preload:

Non-preloaded

Preloaded

Segmentation by Joint Position:

Lower Limb Weight-bearing Joints

Upper Limb Load-bearing Joints

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.

Schaeffler (Ewellix)

Bosch Rexroth

GSA

Rollvis

Nook Industries

Moog

Tolomatic

Creative Motion Control

Lim-Tec

Power Jacks

Kugel Motion

Hangzhou Seenpin Robot Technology

KGG Robots

Key Questions Addressed in this Report

What is the 10-year outlook for the global Humanoid Robot Roller Screw market?  
What factors are driving Humanoid Robot Roller Screw market growth, globally and by region?  
Which technologies are poised for the fastest growth by market and region?  
How do Humanoid Robot Roller Screw market opportunities vary by end market size?  
How does Humanoid Robot Roller Screw break out by Type, by Application?

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