

Global Humanoid Robot Ball Screw Market Growth 2026-2032

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Abstracts

The global Humanoid Robot Ball Screw market size is predicted to grow from US\$ 250 million in 2025 to US\$ 389 million in 2032; it is expected to grow at a CAGR of 6.6% from 2026 to 2032.

Humanoid robot ball screws are ultra-precision linear motion components engineered specifically for humanoid robotic joints and actuators, converting motor rotary motion into smooth, low-friction, high-accuracy linear motion under compact, lightweight, and low-noise constraints. Compared with industrial ball screws, humanoid-robot-grade units emphasize miniaturization, energy efficiency, rapid response, low backlash (micron-level), high repeatability, and long fatigue life suitable for robotic arms, legs, waist joints, finger actuators, and exoskeleton mechanisms operating continuously in dynamic human-like movements.

The humanoid robot ball screw industry chain begins upstream with suppliers of miniature alloy-steel bars, stainless steels, ceramic balls, specialty coatings, lubricants, sensors, and precision machining tools; moves midstream to manufacturers that grind or roll ultra-precision screw shafts, produce micron-grade balls, assemble compact preloaded nuts, integrate caged-ball systems, perform heat treatment, apply wear-resistant coatings, and create fully integrated linear actuators; and ends downstream with humanoid robot OEMs, exoskeleton makers, service-robot factories, and robotics research organizations that install these components into dynamic joint actuators requiring high-speed, low-noise, long-life linear motion for human-like mobility.

Global humanoid-robot ball screw expansion projects include new miniature-precision production lines by major motion-system suppliers in China, Japan, Taiwan, and Europe; increased capacity for micro-ground ball screws for humanoid arms and

exoskeletons; integrated actuator module factories built to supply humanoid OEMs such as Tesla, Figure AI, UBTech, Fourier Intelligence, and Agile Robotics; robotics-focused production upgrades for caged-ball and ceramic-ball systems; and multiple R&D investments into lightweight hollow ball screws, low-noise coatings, and smart ball screw modules with embedded sensors to meet accelerating demand from the rapidly scaling humanoid robotics ecosystem.

2024 Global Market sales Volume: 2.17 million units, Average Global Market Price: 111 USD per unit, Market Average Gross Profit Margin: 20%.

The humanoid robot ball screw market is emerging as one of the fastest-growing micro-segments in precision motion control, driven by the accelerating development of full-scale humanoid robots for industrial, logistics, service, and household applications.

Demand remained comparatively small but increased rapidly as major companies—including Tesla, Figure AI, UBTech, Fourier, Agility Robotics, and several Chinese OEMs—moved from prototypes to early small-batch production.

Compared with traditional machine-tool ball screws, humanoid-robot units require miniaturization, ultra-low noise, compact integration, and smooth dynamic performance critical for human-like gait and dexterous manipulation. Asia, particularly China and Japan, currently represents the fastest-growing region due to concentrated robotics manufacturing capacity and rapid humanoid robot industrialization. Europe and the United States contribute strong R&D-driven demand, especially through high-end actuator development and defense exoskeleton programs.

Market opportunities include lightweight hollow-shaft designs, ceramic-ball hybrid screws, integrated linear-actuator modules, and “smart ball screws” equipped with torque and wear sensors to support predictive maintenance in humanoid robots. Risks include competition from alternative linear technologies such as high-torque strain wave actuators, electric cylinders, and linear motors in certain joints. Supply-chain risks stem from precision machining bottlenecks and the limited number of global manufacturers capable of micron-level tolerances required for humanoid mobility.

Competitive characteristics currently favor Japanese, Taiwanese, European, and emerging Chinese suppliers with strong ground-thread grinding and miniature actuator capabilities. As humanoid robots scale toward mass production (hundreds of thousands per year), suppliers capable of shifting from custom R&D tooling to scalable automated production will gain advantage.

Overall, the market is in an early yet dynamic growth stage with strong technological differentiation and high-margin potential.

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

This Insight Report provides a comprehensive analysis of the global Humanoid Robot Ball 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 Ball 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 Ball Screw market.

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

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

Segmentation by Type:

Planetary Roller Screws

Others

Segmentation by Structural Design:

Standard

Reverse

Circulating

Differential

Segmentation by Precision:

Ultra-precision (C1?C3)

High-precision (C4?C5)

Segmentation by Application:

Humanoid Robot Arms

Humanoid Robot Leg

Humanoid Robot Waist

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.

GSA

Rollvis

Ewellix

Rexroth

CMC

Regal Rexnord NOOK

Moog Inc

ALT ROLLERSCREWS

Hangzhou Seenpin Electromechanical Transmission Co.,Ltd

Key Questions Addressed in this Report

What is the 10-year outlook for the global Humanoid Robot Ball Screw market?

What factors are driving Humanoid Robot Ball Screw market growth, globally and by region?

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

How do Humanoid Robot Ball Screw market opportunities vary by end market size?

How does Humanoid Robot Ball Screw break out by Type, by Application?

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