

Global Inverted Planetary Roller Screws for Humanoid Robots Market Growth 2026-2032

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Abstracts

The global Inverted Planetary Roller Screws for Humanoid Robots market size is predicted to grow from US\$ 421 million in 2025 to US\$ 7914 million in 2032; it is expected to grow at a CAGR of 48.3% from 2026 to 2032.

Inverted planetary roller screws for humanoid robots are high-precision helical transmission components installed in the linear joint actuators of humanoid robots. They convert the rotational motion of a motor into high-thrust, high-rigidity linear motion through planetary meshing of multiple threaded rollers between the screw shaft and nut. The products typically consist of a screw shaft, nut, rollers, cage, or synchronous gear ring. The main development direction for humanoid robot products is compact, inverted planetary roller screws, focusing on meeting the requirements of upper and lower limb linear joints for axial dimensions, thrust density, transmission stiffness, motion efficiency, dynamic response, backlash, fatigue life, and lightweight design. They are mainly used in linear actuators of the upper arm, forearm, thigh, lower leg, knee, and ankle; miniature products can also be used in some dexterous hand actuators, but this is not currently a common transmission solution for dexterous hands. In 2025, the global production of Inverted Planetary Roller Screws for Humanoid Robots is estimated at 1,551,060 sets, with an average price of approximately US\$277.78 per set and a gross profit margin of approximately 31.08%.

The global market for planetary roller screws for humanoid robots is transitioning from prototype fitting and customer verification to small-batch commercial delivery. Planetary roller screws achieve a high number of contact points through multi-roller meshing, providing higher thrust density, stiffness, and fatigue life than ordinary ball screws within the same installation space. They are suitable for linear joints in robots subjected to high-frequency reciprocating motion, impact loads, and precise force control. The

reverse-engineered structure allows for compact integration of the nut, motor rotor, and support structure, reducing the axial length of the actuator, thus becoming an important technological route for upper and lower limb linear joints.

Currently, humanoid robot joints still offer various solutions, including rotary actuators, linear actuators, harmonic reducers, planetary reducers, cycloidal reducers, ball screws, and chord drives. The number of planetary roller screws required varies significantly depending on the robot configuration. At present, the demand for planetary roller screws mainly comes from upper and lower limb joints using linear actuators, as well as the additional costs incurred by OEMs in repeatedly submitting samples, performing installation tests, and conducting life verification.

Future competition will shift from the ability to produce prototypes to precision consistency, internal thread grinding efficiency, heat treatment deformation control, roller tooth profile matching, assembly yield, noise, lifespan, and batch cost. With the maturation of automated grinding, cold rolling, and online inspection technologies, the price of domestically produced products is expected to decline significantly. This price reduction due to economies of scale will cause market sales growth to lag behind physical shipment growth, but lower component costs will also drive increased penetration of linear actuators. Key risks include lower-than-expected mass production of humanoid robots, changes in overall technology roadmaps, lengthy customer certification cycles, insufficient product fatigue life, and the substitution of ball screws or pure rotary actuators in cost-sensitive models.

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

This Insight Report provides a comprehensive analysis of the global Inverted Planetary 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 Inverted Planetary 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 Inverted Planetary Roller Screws for Humanoid Robots market.

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

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

Segmentation by Type:

Micro-Diameter Planetary Roller Screw (Up To 3 mm)

Small-Diameter Planetary Roller Screw (Above 3 mm To 8 mm)

Medium-Diameter Planetary Roller Screw (Above 8 mm To 12 mm)

Large-Diameter Planetary Roller Screw (Above 12 mm To 20 mm)

Segmentation by Load:

Micro-Load Type (Up To 0.5 kN)

Light-Load Type (0.5 kN To 2 kN)

Medium-Load Type (2 kN To 5 kN)

High-Load Type (5 kN To 10 kN)

Segmentation by Lead:

Ultra-Fine Lead Type (Up To 1 mm)

Fine Lead Type (Above 1 mm To 3 mm)

Medium Lead Type (Above 3 mm To 6 mm)

Others (Above 6 mm)

Segmentation by Precision:

C3

C5

C7

Others

Segmentation by Application:

Forearm

Upper Arm

Calf

Thigh

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

Power Jacks Limited

Rollvis

LTK Lineartechnology

Schaeffler AG

Curtiss-Wright Corporation?Exlar?

Nanjing Technical Equipment Manufacture Co.,LTD.

Shandong Best Precision Co.,ltd.

U-screws

Shanghai Beite Technology Co., Ltd.

Wuxi Best Precision Machinery Co., Ltd.

Ningbo Shuanglin Auto Parts Co., Ltd.

Zhejiang XCC Group Co., Ltd.

Hangzhou Seenpin Electromechanical Transmission Co., Ltd.

Ningbo Zhenyu Technology Co., Ltd.

Jiangsu Kaiserdrive Intelligent Technology Co., Ltd.

CB Robot Technology

Shandong Wantong Hydraulic Co., Ltd.

HCFA

Qinchuan Machine Tool

HIWIN

Zhejiang Rongtai Electric Material Co., Ltd.

Jiangsu DINGS' Intelligent Control Technology Co., Ltd.

Changhua Group

Zhejiang Sling Intelligent Drive Group Co., Ltd.

Jiangsu Hengli Hydraulic Co., Ltd.

CSB

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Key Questions Addressed in this Report

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

What factors are driving Inverted Planetary 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 Inverted Planetary Roller Screws for Humanoid Robots market opportunities vary by end market size?

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

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