

Global Inverted Planetary Roller Screws for Humanoid Robots Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Inverted Planetary Roller Screws for Humanoid Robots market size was valued at US\$ 443 million in 2025 and is forecast to a readjusted size of US\$ 7414 million by 2032 with a CAGR of 45.5% during review period.

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.

This report is a detailed and comprehensive analysis for global Inverted Planetary Roller Screws for Humanoid Robots market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Inverted Planetary Roller Screws for Humanoid Robots market size and forecasts, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (K US\$/Sets), 2021-2032

Global Inverted Planetary Roller Screws for Humanoid Robots market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (K US\$/Sets), 2021-2032

Global Inverted Planetary Roller Screws for Humanoid Robots market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (K US\$/Sets), 2021-2032

Global Inverted Planetary Roller Screws for Humanoid Robots market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sets), and ASP (K US\$/Sets), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Inverted Planetary Roller Screws for Humanoid Robots

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Inverted Planetary Roller Screws for Humanoid Robots market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Inverted Planetary Roller Screws for Humanoid Robots market is split by Type and by

Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment 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)

Market segment 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)

Market segment 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)

Market segment by Precision

C3

C5

C7

Others

Market segment by Application

Forearm

Upper Arm

Calf

Thigh

Major players covered

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

NOUS ROBOT

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Inverted Planetary Roller Screws for Humanoid Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Inverted Planetary Roller Screws for Humanoid Robots, with price, sales quantity, revenue, and global market share of Inverted Planetary Roller Screws for Humanoid Robots from 2021 to 2026.

Chapter 3, the Inverted Planetary Roller Screws for Humanoid Robots competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Inverted Planetary Roller Screws for Humanoid Robots breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Inverted Planetary Roller Screws for Humanoid Robots market forecast, by regions, by Type, and by Application, with sales and

revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Inverted Planetary Roller Screws for Humanoid Robots.

Chapter 14 and 15, to describe Inverted Planetary Roller Screws for Humanoid Robots sales channel, distributors, customers, research findings and conclusion.

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