

Global Ball Screw 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 Ball Screw for Humanoid Robots market size was valued at US\$ 141 million in 2025 and is forecast to a readjusted size of US\$ 667 million by 2032 with a CAGR of 26.0% during review period.

Ball screws for humanoid robots, particularly planetary roller screws, are core precision transmission components that convert the rotary motion of a motor into linear motion of a joint. In humanoid robots, ball screws are primarily used in two core areas: first, as linear actuators in parts such as the thigh, lower leg, upper arm, and forearm, responsible for achieving high-load, high-precision movements such as walking and grasping; second, in dexterous hands, using miniature planetary roller screws with a diameter of only 1.5mm to achieve fine manipulation of the fingers. Through the principle of 'planetary transmission + threaded engagement,' it replaces ball bearings with threaded rollers, significantly increasing the contact area and achieving superior performance such as high load capacity, high precision, long lifespan, high efficiency, and high reliability.

In 2025, global Ball Screw for Humanoid Robot sale reached approximately 582 K Units, with an average global market price of around 236 US\$/Unit. Production capacity reached 1,000 K Units, with a gross profit margin of approximately 55%.

This report is a detailed and comprehensive analysis for global Ball Screw for Humanoid Robots market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Structure 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 Ball Screw for Humanoid Robots market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ball Screw for Humanoid Robots market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ball Screw for Humanoid Robots market size and forecasts, by Structure and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ball Screw for Humanoid Robots market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Ball Screw 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 Ball Screw 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 (Rollvis), Schaeffler (Ewellix), NSK, Nanjing Technology and Equipment Manufacturing, Hangzhou Seenpin Electromechanical Transmission, Jiangsu DINGS' Intelligent Control Technology, Shandong Bote Precision Industry, U-SCREWS Precision, Jiangsu Leaderdrive, TGB

Precision Technology, etc.

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

Market Segmentation

Ball Screw for Humanoid Robots market is split by Structure and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Structure, 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 Structure

Roller Screw

Planetary Roller Screw

Market segment by Type

Reversible Type

Standard Type

Market segment by Application

Dexterous Hand

Humanoid Robot Limbs

Major players covered

GSA (Rollvis)

Schaeffler (Ewellix)

NSK

Nanjing Technology and Equipment Manufacturing

Hangzhou Seenpin Electromechanical Transmission

Jiangsu DINGS' Intelligent Control Technology

Shandong Bote Precision Industry

U-SCREWS Precision

Jiangsu Leaderdrive

TGB Precision Technology

Shenzhen Nous Robot

Guohua Intelligent

Zhejiang Hechuan Technology

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 Ball Screw for Humanoid Robots product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Ball Screw 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 Structure and by Application, with sales market share and growth rate by Structure, 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 Ball Screw for Humanoid Robots market forecast, by regions, by Structure, 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 Ball Screw for Humanoid Robots.

Chapter 14 and 15, to describe Ball Screw for Humanoid Robots sales channel, distributors, customers, research findings and conclusion.

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