

Global Ball Screw for Humanoid Robots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ball Screw for Humanoid Robots market size is expected to reach \$ 667 million by 2032, rising at a market growth of 26.0% CAGR during the forecast period (2026-2032).

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 studies the global Ball Screw for Humanoid Robots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ball Screw for Humanoid Robots and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and

competition, as well as details the characteristics of Ball Screw for Humanoid Robots that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ball Screw for Humanoid Robots total production and demand, 2021-2032, (K Units)

Global Ball Screw for Humanoid Robots total production value, 2021-2032, (USD Million)

Global Ball Screw for Humanoid Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Ball Screw for Humanoid Robots consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ball Screw for Humanoid Robots domestic production, consumption, key domestic manufacturers and share

Global Ball Screw for Humanoid Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Ball Screw for Humanoid Robots production by Structure, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Ball Screw for Humanoid Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ball Screw for Humanoid Robots market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ball Screw for Humanoid Robots market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Structure, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ball Screw for Humanoid Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ball Screw for Humanoid Robots Market, Segmentation by Structure:

Roller Screw

Planetary Roller Screw

Global Ball Screw for Humanoid Robots Market, Segmentation by Type:

Reversible Type

Standard Type

Global Ball Screw for Humanoid Robots Market, Segmentation by Application:

Dexterous Hand

Humanoid Robot Limbs

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Ball Screw for Humanoid Robots market?
2. What is the demand of the global Ball Screw for Humanoid Robots market?
3. What is the year over year growth of the global Ball Screw for Humanoid Robots market?

4. What is the production and production value of the global Ball Screw for Humanoid Robots market?
5. Who are the key producers in the global Ball Screw for Humanoid Robots market?
6. What are the growth factors driving the market demand?

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