

Global Humanoid Robot Roller Screw Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Humanoid Robot Roller Screw market size is expected to reach \$ 133 million by 2032, rising at a market growth of 27.2% CAGR during the forecast period (2026-2032).

A humanoid robot roller screw is a high-precision linear motion component that converts rotary motion into linear motion using multiple threaded rollers between the screw shaft and nut. Compared with ball screws, roller screws offer significantly higher load capacity, stiffness, and fatigue life, making them particularly suitable for humanoid robot joints that require compact design, high force density, and long-term reliability under repetitive motion cycles. In 2025, global humanoid robot roller screw production reached approximately 15.71 k units. Global production capacity in 2025 is approximately 19 k units. Key raw materials for humanoid robot roller screw include alloy structural steel and high-carbon chromium bearing steel; typical suppliers include Voestalpine, Nippon Steel, and Timken. Downstream applications are dominated by humanoid robot OEMs and actuator module suppliers, where roller screws are integrated into high-force joint systems for locomotion and posture control.

The humanoid robot roller screw market is at an early transition stage, evolving from mature industrial applications toward robot-specific, high-performance use cases. As humanoid robots increasingly demand high force density, stiffness, and fatigue life for dynamic locomotion and repetitive motion, planetary and inverted planetary roller screws have emerged as preferred solutions for critical joints. In terms of industry evolution, the current market is still dominated by standalone roller screw components. However, as humanoid robots move toward higher levels of integration and scalable manufacturing, the market is expected to shift progressively toward integrated roller screw actuators, driving an increase in value per joint. At the same time, cost pressures

may lead to partial substitution by ball screws in non-load-bearing joints, resulting in a structurally segmented market characterized by high-end rigidity-driven demand and selective cost-driven alternatives.

This report studies the global Humanoid Robot Roller Screw production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Humanoid Robot Roller Screw 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 Humanoid Robot Roller Screw that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Humanoid Robot Roller Screw total production and demand, 2021-2032, (K Units)

Global Humanoid Robot Roller Screw total production value, 2021-2032, (USD Million)

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

Global Humanoid Robot Roller Screw consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Humanoid Robot Roller Screw domestic production, consumption, key domestic manufacturers and share

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

Global Humanoid Robot Roller Screw production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Humanoid Robot Roller Screw production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Humanoid Robot Roller Screw 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 Schaeffler (Ewellix), Bosch Rexroth, GSA, Rollvis, Nook Industries, Moog, Tolomatic, Creative Motion Control, Lim-Tec, Power Jacks, 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 Humanoid Robot Roller Screw 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 Type, 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 Humanoid Robot Roller Screw Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Humanoid Robot Roller Screw Market, Segmentation by Type:

Light-load(20 kN)

Global Humanoid Robot Roller Screw Market, Segmentation by Architecture:

Standard

Inverted

Others

Global Humanoid Robot Roller Screw Market, Segmentation by Preload:

Non-preloaded

Preloaded

Global Humanoid Robot Roller Screw Market, Segmentation by Joint Position:

Lower Limb Weight-bearing Joints

Upper Limb Load-bearing Joints

Others

Global Humanoid Robot Roller Screw Market, Segmentation by Application:

Special Operation Robots

Medical Robots

Exoskeleton Robots

Other

Companies Profiled:

Schaeffler (Ewellix)

Bosch Rexroth

GSA

Rollvis

Nook Industries

Moog

Tolomatic

Creative Motion Control

Lim-Tec

Power Jacks

Kugel Motion

Hangzhou Seenpin Robot Technology

KGG Robots

Key Questions Answered:

1. How big is the global Humanoid Robot Roller Screw market?
2. What is the demand of the global Humanoid Robot Roller Screw market?
3. What is the year over year growth of the global Humanoid Robot Roller Screw market?
4. What is the production and production value of the global Humanoid Robot Roller Screw market?
5. Who are the key producers in the global Humanoid Robot Roller Screw market?
6. What are the growth factors driving the market demand?

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