

Global Ball Screw Actuator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ball Screw Actuator market size is expected to reach \$ 2071 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

The ball screw actuator is a mechanical device that utilizes the recirculating rolling of balls between the spiral grooves of the screw shaft and the nut to convert rotary motion into linear motion or torque into axial repeated force, with its core lying in the replacement of sliding friction with rolling friction for motion conversion. By optimizing the thread raceways and preload structures, the device achieves over 90% mechanical efficiency with minimal friction resistance while ensuring high rigidity and backlash-free precision transmission. With a compact and lightweight design coupled with resilience in harsh environments, it delivers efficient response with minimal energy loss within limited installation space, ensuring operational stability and reliability. This represents a technological path substituting traditional hydraulic or pneumatic systems through precision mechanical structures, aimed at meeting stringent requirements for linear motion control with advantages such as high precision, low maintenance, and reversibility. In 2025, global Ball Screw Actuator production reached approximately 5.65 million units with an average global market price of around US\$210 per unit.

The future development of ball screw actuators will deeply rely on the penetration of emerging industries such as intelligent vehicles and humanoid robots, which will prompt enterprises to optimize their product structures to enhance revenue quality. As downstream markets evolve towards higher precision and load-bearing capacity, manufacturers need to apply advanced materials science and precision machining technologies to improve the wear resistance and operational stability of their products, thereby securing higher profit margins in the high-end manufacturing sector. Major industry trends indicate that enterprises are committed to integrating IoT and smart

sensor technologies to enable real-time condition monitoring and predictive maintenance functions; this transformation towards intelligent, high value-added products will effectively elevate the comprehensive competitiveness and profitability of enterprises. Meanwhile, to address diverse market demands, the development of customized designs with high protection ratings or high-temperature resistance will become the key to differentiated competition, driving the industry to develop further into niche segments with higher technical barriers.

This report studies the global Ball Screw Actuator production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Ball Screw Actuator total production and demand, 2021-2032, (K Units)

Global Ball Screw Actuator total production value, 2021-2032, (USD Million)

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

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

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

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

Global Ball Screw Actuator production by Screw Diameter, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Ball Screw Actuator 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 Del-Tron Precision, NSK, KSS, Parker Hannifin, Bosch Rexroth, Nanotec Electronics, Helix Linear, Tolomatic, Festo, PBC Linear, 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 Actuator 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 Screw Diameter, 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 Actuator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ball Screw Actuator Market, Segmentation by Screw Diameter:

8 mm

8-16 mm

16?32 mm

32?63 mm

?63 mm

Global Ball Screw Actuator Market, Segmentation by Load Capacity:

?1 kN

1?10 kN

10?50 kN

?50 kN

Global Ball Screw Actuator Market, Segmentation by Linear Speed:

?100 mm/s

100?500 mm/s

500?1,500 mm/s

?1,500 mm/s

Global Ball Screw Actuator Market, Segmentation by Application:

Automotive

Medical

Aerospace

Industrial Manufacturing

Other

Companies Profiled:

Del-Tron Precision

NSK

KSS

Parker Hannifin

Bosch Rexroth

Nanotec Electronics

Helix Linear

Tolomatic

Festo

PBC Linear

HEPCOMOTION

Nook

Isel

Jiangsu DINGS'Intelligent Control Technology

Key Questions Answered:

1. How big is the global Ball Screw Actuator market?
2. What is the demand of the global Ball Screw Actuator market?
3. What is the year over year growth of the global Ball Screw Actuator market?
4. What is the production and production value of the global Ball Screw Actuator

market?

5. Who are the key producers in the global Ball Screw Actuator market?

6. What are the growth factors driving the market demand?

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