

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

<https://marketpublishers.com/r/G0A29BF6EF4AEN.html>

Date: June 2026

Pages: 122

Price: US\$ 4,480.00 (Single User License)

ID: G0A29BF6EF4AEN

Abstracts

The global Ball Screw Electric Cylinder 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).

Ball screw electric cylinder is a modular product integrating servo motors with ball screws, converting rotary motion into linear motion through a ball screw composed of a screw, nut, and balls, utilizing rolling friction for efficient and precise motion conversion. Its core lies in the low friction resistance and high transmission efficiency of the ball screw, enabling high positioning accuracy under semi-closed-loop control, along with low noise, long lifespan, and maintenance-free operation. By employing self-lubricating materials and electronic buffer braking, the system reduces vibration and energy consumption, adapts to complex environments, and achieves high rigidity and backlash-free motion through adjustable ball preload. Optimizing the motion conversion mechanism, it replaces traditional hydraulic and pneumatic systems, delivering more environmentally friendly and energy-efficient precision linear motion control. In 2025, global Ball Screw Electric Cylinder production reached approximately 5.65 million units with an average global market price of around US\$210 per unit.

As a modular product integrating servo motor and ball screw technology, the core of the Ball Screw Electric Cylinder lies in achieving efficient, low-friction linear motion conversion through precision mechanical structures. Adopting the rolling friction principle, the product significantly reduces energy consumption and improves transmission efficiency, while offering high positioning accuracy and low noise characteristics, making it suitable for semi-closed-loop control scenarios. Its self-lubricating materials and electronic buffer braking design further optimize operational stability, reducing vibration and maintenance requirements to adapt to complex

environments. By adjusting ball preload, high rigidity and backlash-free motion control can be achieved, meeting the demands of precision machining. This technological trend reflects the industry's core logic of transitioning towards high energy efficiency and environmental protection, realizing more sustainable solutions by optimizing motion conversion mechanisms to replace traditional hydraulic or pneumatic systems. Currently, enterprise R&D focuses on enhancing product adaptability and intelligence, combining quantitative analysis with qualitative methods to predict technological iteration directions to strengthen market competitiveness.

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

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

Highlights and key features of the study

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

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

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

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

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

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

Global Ball Screw Electric Cylinder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Ball Screw Electric Cylinder 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 Electric Cylinder 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 Ball Screw Electric Cylinder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ball Screw Electric Cylinder Market, Segmentation by Type:

Light Load

Heavy Load

Global Ball Screw Electric Cylinder Market, Segmentation by Load Capacity:

?1 kN

1?10 kN

10?50 kN

?50 kN

Global Ball Screw Electric Cylinder Market, Segmentation by Linear Speed:

?100 mm/s

100?500 mm/s

500?1,500 mm/s

?1,500 mm/s

Global Ball Screw Electric Cylinder Market, Segmentation by Application:

Industrial

Medical

Logistics

Robot

Research

Others

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 Electric Cylinder market?
2. What is the demand of the global Ball Screw Electric Cylinder market?
3. What is the year over year growth of the global Ball Screw Electric Cylinder market?
4. What is the production and production value of the global Ball Screw Electric Cylinder market?
5. Who are the key producers in the global Ball Screw Electric Cylinder market?
6. What are the growth factors driving the market demand?

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