

# Increase Automation, Advanced Manufacturing Technologies, A Key Driver Transforming The Precision Ball Screw Market 2025

*The Business Research Company's Precision Ball Screw Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034*

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/EINPresswire.com/ -- Is The Precision Ball Screw Market Set To Witness Substantial Growth?



From \$1.76 billion in 2024, the precision ball screw market size has grown significantly and is expected to reach \$1.88 billion in 2025 at a compound annual growth rate CAGR of 6.6%. The growth in the historic period can be attributed to several factors. Among them are the expansion of the robotics industry, the notable growth in electric vehicle manufacturing, the increasing adoption of automation across various sectors, the rising demand for high-precision surgical equipment, and the growth in the aviation and aerospace industries.



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The precision ball screw market could grow exponentially in the near future. It is projected to reach \$2.39 billion by 2029 at a CAGR of 6.2%. The growth in the forecast period can be attributed to the increasing demand in the semiconductor and aerospace industries, the growth of the medical device sector, the rising need for high-precision machinery, the expansion of robotics applications, and a growing focus on energy efficiency in industrial processes. Major

trends in the forecast period include advancements in electric and hybrid vehicles, advancements in 3D printing, the emergence of smart manufacturing, development of custom-designed solutions, and technological advancements and innovations in precision ball screws.

### What Drives The [Precision Ball Screw Market Growth](#)?

Of the key growth drivers, the manufacturing sector's increasing automation is expected to spearhead the progress of the precision ball screw market. The manufacturing sector, a segment of the economy that transforms raw materials into finished products, has experienced increased automation due to improved efficiency and productivity, cost reduction, enhanced precision and quality, workplace safety, and demand for customization. Precision ball screws play a crucial role in automation and advanced manufacturing technologies as they ensure high accuracy and repeatability in motion control, enhancing the precision and efficiency of automated systems and machinery.

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### Who Are The Key Players In The Precision Ball Screw Market?

Making their mark in the precision ball screw market are prominent companies such as Nidec Corporation, Schaeffler AG, Parker Hannifin Corporation, JTEKT Corporation, AB SKF, NSK Ltd., Bosch Rexroth AG, THK Co. Ltd., Barnes Industries Inc., HIWIN Technologies Corp., PMI Group Inc., Tsubaki Nakashima Co. Ltd., Schneeberger Holding AG, Kuroda Precision Industries Ltd., TBI Motion Technology Co. Ltd., Nook Industries Inc., Power Systems Research Inc., HepcoMotion Ltd., Rollvis SA, Delta Electronics, Nippon Bearing Co. Ltd., and Linear Motion Technology AG.

### What Are The Emerging Trends In The Precision Ball Screw Market?

At the forefront of innovations, major companies in the precision ball screw market are focusing on developing state-of-the-art products like servo controller compensation and NSK Real Digital Twin Simulation. The former utilizes software algorithms in servo control systems to adjust machine tools' movement in real-time, thereby enhancing precision and performance. The latter creates a digital representation of physical systems, enabling engineers to effectively analyze and optimize designs.

### How Is The [Precision Ball Screw Market Segmented](#)?

- 1 Type: Ground; Rolled
- 2 Raw Material: Alloy Steel; Stainless Steel
- 3 Sales Channel: Offline; Online
- 4 By Application: Semiconductor Manufacturing Equipment; Medical Equipment; Laboratory

Equipment; Other Applications

Subsegment-wise, the market is divided into:

- 1 Ground Ball Screws: Precision Ground Ball Screws; High-Lead Ground Ball Screws; Anti-Backlash Ground Ball Screws; Single Start Ground Ball Screws; Multi-Start Ground Ball Screws; High-Speed Ground Ball Screws
- 2 Rolled Ball Screws: Standard Rolled Ball Screws; Precision Rolled Ball Screws; High-Lead Rolled Ball Screws; Self-Lubricating Rolled Ball Screws; High-Load Capacity Rolled Ball Screws; Miniature Rolled Ball Screws.

What Is The Regional Analysis Of Precision Ball Screw Market?

Regional analysis reveals that Asia-Pacific led the pack in the precision ball screw market in 2024. The precision ball screw market report covers several regions, including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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