

Global Ball Screws for Machine Tools Market Growth 2026-2032

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Abstracts

The global Ball Screws for Machine Tools market size is predicted to grow from US\$ 404 million in 2025 to US\$ 586 million in 2032; it is expected to grow at a CAGR of 5.5% from 2026 to 2032.

Ball screws for machine tools are transmission components used in various CNC machine tools and automated processing equipment. By circulating the ball between the screw and nut, the rotating motion is efficiently converted into linear motion. It has the characteristics of high transmission efficiency, high positioning accuracy, low friction resistance, and long service life. It is widely used in the feed system of machining centers, CNC lathes, grinders, and precision automation equipment. It is one of the key core components that affect the machining accuracy and operational stability of machine tools. In 2025, global Ball Screws for Machine Tools production reached approximately 1,565 K Units, with an average global market price of around US\$ 264 per unit.

Ball screw is the core component of CNC machine tools. Compared to sliding screws, ball screws have several major characteristics: firstly, ball screws rely on rolling friction of the balls, while sliding screws perform sliding friction, which also leads to higher friction and easy wear; Secondly, due to the lower rolling friction coefficient compared to sliding friction, the transmission efficiency of ball screws is higher than that of sliding screws; Finally, when the transmission efficiency of the screw is greater than 50%, there is no self-locking, and when it is less than 35%, self-locking will occur. Therefore, ball screws do not have self-locking, and sliding screws may produce self-locking. With the development of intelligent manufacturing, industrial robots, and new energy vehicle industries, the demand for high-precision linear transmission systems continues to increase, driving the growth of the ball screw market for machine tools. At the same

time, the popularization of high-end machine tools and automation equipment has continuously increased the proportion of high-precision, long-life, and high load capacity ball screw products, and the industry is gradually developing towards high-end and domestic substitution.

LP Information, Inc. (LPI) ' newest research report, the “Ball Screws for Machine Tools Industry Forecast” looks at past sales and reviews total world Ball Screws for Machine Tools sales in 2025, providing a comprehensive analysis by region and market sector of projected Ball Screws for Machine Tools sales for 2026 through 2032. With Ball Screws for Machine Tools sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ball Screws for Machine Tools industry.

This Insight Report provides a comprehensive analysis of the global Ball Screws for Machine Tools landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Ball Screws for Machine Tools portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ball Screws for Machine Tools market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ball Screws for Machine Tools and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ball Screws for Machine Tools.

This report presents a comprehensive overview, market shares, and growth opportunities of Ball Screws for Machine Tools market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Internal Circulation Ballscrew

External Circulation Ballscrew

Segmentation by Outer Diameter:

Outer Diameter < 40mm

Outer Diameter 40-50mm

Outer Diameter > 50mm

Segmentation by Precision:

Ordinary Ball Screw

Precision Ball Screw

Segmentation by Application:

Machinery Manufacturing

Automobile

Aerospace & Defense

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

THK

NSK

SKF

HIWIN Technologies

Bosch Rexroth

Schaeffler

TBI MOTION

KSS

Nidec Instruments Corporation

ISSOKU

JTEKT Machine System

PMI GROUP

KURODA Precision Industries

Shuton-Ipiranga

SBC Linear

Ozak Seiko

Nanjing Technology and Equipment Manufacturing

Key Questions Addressed in this Report

What is the 10-year outlook for the global Ball Screws for Machine Tools market?

What factors are driving Ball Screws for Machine Tools market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Ball Screws for Machine Tools market opportunities vary by end market size?

How does Ball Screws for Machine Tools break out by Type, by Application?

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