

Global Ball Screws for Machine Tools Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ball Screws for Machine Tools market size is expected to reach \$ 605 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

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.

This report studies the global Ball Screws for Machine Tools production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Ball Screws for Machine Tools total production and demand, 2021-2032, (K Units)

Global Ball Screws for Machine Tools total production value, 2021-2032, (USD Million)

Global Ball Screws for Machine Tools production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Ball Screws for Machine Tools consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ball Screws for Machine Tools domestic production, consumption, key domestic manufacturers and share

Global Ball Screws for Machine Tools production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Ball Screws for Machine Tools production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Ball Screws for Machine Tools production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ball Screws for Machine Tools 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 THK, NSK, SKF, HIWIN Technologies, Bosch Rexroth, Schaeffler, TBI MOTION, KSS, Nidec Instruments Corporation, ISSOKU, 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 Screws for Machine Tools 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 Screws for Machine Tools Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ball Screws for Machine Tools Market, Segmentation by Type:

Internal Circulation Ballscrew

External Circulation Ballscrew

Global Ball Screws for Machine Tools Market, Segmentation by Outer Diameter:

Outer Diameter < 40mm

Outer Diameter 40-50mm

Outer Diameter > 50mm

Global Ball Screws for Machine Tools Market, Segmentation by Precision:

Ordinary Ball Screw

Precision Ball Screw

Global Ball Screws for Machine Tools Market, Segmentation by Application:

Machinery Manufacturing

Automobile

Aerospace & Defense

Others

Companies Profiled:

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 Answered:

1. How big is the global Ball Screws for Machine Tools market?
2. What is the demand of the global Ball Screws for Machine Tools market?
3. What is the year over year growth of the global Ball Screws for Machine Tools market?
4. What is the production and production value of the global Ball Screws for Machine Tools market?

5. Who are the key producers in the global Ball Screws for Machine Tools market?
6. What are the growth factors driving the market demand?

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