

# Global Ball Screw for Semiconductor Equipment Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G66563221BA9EN.html>

Date: April 2026

Pages: 150

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

ID: G66563221BA9EN

## Abstracts

The global Ball Screw for Semiconductor Equipment market size is expected to reach \$ 849 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

Ball screws for semiconductor equipment are high-precision linear transmission components used in precision motion platforms such as wafer manufacturing equipment, lithography machines, etching equipment, and detection equipment. By circulating the ball between the screw and nut, the rotational motion of the servo motor is converted to linear motion with high precision. It has ultra-high positioning accuracy, low vibration, low noise, long life, and adaptability to clean environments. It usually requires sub micron level positioning accuracy, high rigidity, and stable repetitive positioning performance, and can meet the strict requirements of semiconductor production lines for cleanliness, stability, and long-term continuous operation. In 2025, global Ball Screw for Semiconductor Equipment production reached approximately 486 K Units, with an average global market price of around US\$ 1,167 per unit.

With the continuous advancement of advanced processes and the accelerated pace of wafer fab expansion, the number of lithography, testing, and packaging equipment continues to increase, and the demand for high-end linear motion control components has significantly increased. This has driven the development of ball screws for semiconductor equipment towards higher precision, reliability, and customization. At the same time, the industry presents characteristics of high technical barriers, long certification cycles, and high concentration of top manufacturers. In the context of the localization of advanced manufacturing equipment and changes in global semiconductor production capacity layout, this field still has stable growth potential in the future.

This report studies the global Ball Screw for Semiconductor Equipment production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Ball Screw for Semiconductor Equipment total production and demand, 2021-2032, (K Units)

Global Ball Screw for Semiconductor Equipment total production value, 2021-2032, (USD Million)

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

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

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

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

Global Ball Screw for Semiconductor Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Ball Screw for Semiconductor Equipment

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 Screw for Semiconductor Equipment 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 for Semiconductor Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Ball Screw for Semiconductor Equipment Market, Segmentation by Type:

Internal Circulation Ballscrew

External Circulation Ballscrew

## Global Ball Screw for Semiconductor Equipment Market, Segmentation by Outer Diameter:

Outer Diameter < 40mm

Outer Diameter 40-50mm

Outer Diameter > 50mm

## Global Ball Screw for Semiconductor Equipment Market, Segmentation by Precision:

Ordinary Ball Screw

Precision Ball Screw

## Global Ball Screw for Semiconductor Equipment Market, Segmentation by Application:

Etching Equipment

Thin Film Deposition Equipment

Inspection and Measurement Equipment

Packaging and Testing Equipment

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 Screw for Semiconductor Equipment market?
2. What is the demand of the global Ball Screw for Semiconductor Equipment market?
3. What is the year over year growth of the global Ball Screw for Semiconductor

Equipment market?

4. What is the production and production value of the global Ball Screw for Semiconductor Equipment market?
5. Who are the key producers in the global Ball Screw for Semiconductor Equipment market?
6. What are the growth factors driving the market demand?

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