

# Precision Ball Screw Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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## Abstracts

The global precision ball screw market reached a value of US\$ 1.41 Billion in 2021. Looking forward, IMARC Group expects the market to reach a value of US\$ 1.92 Billion by 2027, exhibiting a CAGR of 5.20% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Precision ball screws are mechanical devices that convert rotatory motion into linear motion. They comprise long-threaded shafts with ball bearings to resist significant stress and weight while providing a rolling surface. They offer several benefits, including high efficiency, better load capacity, and positioning accuracy. As a result, they find extensive applications in robotics, material handling, manufacturing plants, construction works, advertising companies, retail, printing and machinery repair shops, and computer numerical control (CNC) machines. Besides this, precision ball screws are employed in the energy and mining, food and beverages (F&B), automotive, and aerospace industries worldwide.

Precision Ball Screw Market Trends:

At present, there is a rise in the demand for medical diagnostics equipment that requires precisely controlled movements for efficient operations. This, along with the growing utilization of precision ball screws in dental milling machines, surgical robots, and robotic endoscopy equipment, represents one of the key factors driving the market. Moreover, there is a rise in the usage of these screws in semiconductors to reduce friction and extend the lifespan of machines. This, coupled with increasing investments in the semiconductor industry by governments of numerous countries, is offering

lucrative growth opportunities to industry players. In addition, there is a rise in the use of precision ball screws in the aviation and aerospace industry as they aid in withstanding heavy loads. They also eliminate leakage, sponginess, and issues associated with hydraulic and pneumatic systems in aircraft. Furthermore, key market players are introducing new and enhanced precision ball screws to extend machine reliability and achieve higher speed limits and lower noise levels in vehicles, which is projected to bolster the growth of the market.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global precision ball screw market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on type and application.

#### Breakup by Type:

- Ground Precision Ball Screw
- Rolled Precision Ball Screw

#### Breakup by Application:

- Semiconductor
- Medical
- Laboratory
- Others

#### Breakup by Region:

- North America
  - United States
  - Canada
- Asia-Pacific
  - China
  - Japan
  - India
  - South Korea
- Australia
- Indonesia
- Others

Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Hiwin Corporation, Koyo Machinery USA Inc., KSS Co. Ltd., KURODA Precision Industries Ltd., Nidec Corporation, NSK Ltd., PMI Group (Precision Motion Industries Inc.), Robert Bosch GmbH, TBI Motion Technology Co. Ltd., THK Co. Ltd. and Tsubaki Nakashima Co. Ltd.

#### Key Questions Answered in This Report:

How has the global precision ball screw market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global precision ball screw market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global precision ball screw market and who are the key players?

What is the degree of competition in the industry?

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