

Global Lead Screw Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Lead Screw market size was valued at US\$ 8389 million in 2025 and is forecast to a readjusted size of US\$ 13691 million by 2032 with a CAGR of 7.2% during review period.

A Lead Screw is a mechanical linear actuator that converts rotational motion into linear motion through the interaction between a threaded screw shaft and a mating nut. It is widely used in positioning, lifting, and actuation systems due to its simplicity, self-locking capability, and cost-effectiveness. In 2025, global Lead Screw production reached approximately 194.11 M units, with an average global market price of around US\$ 42 per unit. Annual production capacity is 221.5 M units. Gross Profit Margin: 28%. The lead screw industry chain is structured around three core layers: upstream raw materials, midstream precision manufacturing, and downstream application integration. Upstream mainly includes steel, stainless steel, and engineering plastics, which are processed into high-precision bars and blanks. Midstream manufacturers perform CNC machining, thread forming (trapezoidal, ACME, square), heat treatment, and surface finishing to produce lead screws and nut assemblies. Downstream applications span industrial automation, medical devices, 3D printing, semiconductor equipment, and linear actuation systems, where lead screws function as a key motion conversion component. Lead screws represent a mature but structurally stable mechanical component industry, where growth is primarily driven by automation penetration rather than technological disruption. While they are being partially replaced in high-end applications by ball screws and linear motors, they remain dominant in cost-sensitive and mid-precision systems due to their simplicity, self-locking property, and low cost. The most attractive opportunity lies in integrated actuator modules and OEM customization, especially in emerging robotics and compact automation devices.

This report is a detailed and comprehensive analysis for global Lead Screw market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Product Form and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Lead Screw market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lead Screw market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lead Screw market size and forecasts, by Product Form and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lead Screw market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Lead Screw

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Lead Screw market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thk Co., Ltd, Nsk Ltd, Bosch Rexroth Ag, Hiwin Technologies,

Thomson Industries (Altra), Iko Nippon Thompson, Schaeffler Group, Tbi Motion, Pmi Group, Schneeberger Ag Linear Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Lead Screw market is split by Product Form and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Product Form, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Product Form

Lead Screw Shaft

Screw + Nut Assembly

Linear Actuator

Custom Lead Screw

Market segment by Diameter + Lead

Miniature: ? 8 mm

Small Diameter: 8?16 mm

Medium Diameter :16?40 mm

Large Diameter :? 40 mm

Market segment by Accuracy Grade

Standard Grade

Precision Grade

High Precision Grade

Market segment by Application

Industrial

Medical

Commercial

Others

Major players covered

Thk Co., Ltd

Nsk Ltd

Bosch Rexroth Ag

Hiwin Technologies

Thomson Industries (Altra)

Iko Nippon Thompson

Schaeffler Group

Tbi Motion

Pmi Group

Schneeberger Ag Linear Technology

Dongguan Kaidi Precision Machinery

Dongguan Hanjiang Precision

Shenzhen Yixin Precision

Zhejiang Mech Linear Motion

HepcoMotion

Igus Gmbh

Kollmorgen

Altra Industrial Motion Corp

Kuroda Precision

Misumi Group

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Lead Screw product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lead Screw, with price, sales quantity, revenue, and global market share of Lead Screw from 2021 to 2026.

Chapter 3, the Lead Screw competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lead Screw breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Product Form and by Application, with sales market share and growth rate by Product Form, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Lead Screw market forecast, by regions, by Product Form, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Lead Screw.

Chapter 14 and 15, to describe Lead Screw sales channel, distributors, customers, research findings and conclusion.

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