

Global Lead Screws for Robotics Market Growth 2026-2032

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Abstracts

The global Lead Screws for Robotics market size is predicted to grow from US\$ 280 million in 2025 to US\$ 514 million in 2032; it is expected to grow at a CAGR of 9.1% from 2026 to 2032.

Lead screws for robotics are sliding screw-and-nut drives using trapezoidal or ACME-type threads to convert motor rotation into linear displacement and axial thrust in robotic mechanisms. They are commonly used in grippers, lifting, telescoping, adjustment and auxiliary linear axes where moderate positioning accuracy, quiet operation, compact design or self-locking behavior is desired. This market includes trapezoidal/ACME lead screw and nut assemblies sold directly for industrial robots, collaborative robots, mobile robots and related robotic automation equipment, and excludes ball screws, planetary roller screws, ordinary fastening screws, and the full value of complete electric cylinders or linear modules. Estimated blended gross margin is approximately 38%.

Demand is expanding from conventional factory automation into a broader range of robotic platforms. Trapezoidal lead screws retain a stable role in grippers, lifting and telescoping mechanisms, end-effector adjustment and light-to-medium-duty auxiliary axes because of their simple architecture, controllable cost, low noise and, in some configurations, self-locking behavior. Asian manufacturing clusters remain an important center of both production and procurement.

Competition includes global linear-motion brands, specialist screw manufacturers and regional custom-machining suppliers. Standard small-diameter and moderate-lead products compete heavily on availability and cost, while robotics programs place greater weight on low backlash, service life, screw-and-nut material pairing, surface treatment, end machining and integration with motors and nuts. Suppliers with strong application

engineering and repeatable volume production are positioned more favorably.

Future demand should benefit from broader deployment of collaborative robots, logistics robots, laboratory automation and lightweight service robots, while facing substitution from ball screws, timing belts, linear motors and compact electric cylinders. The strongest opportunities are likely to be in miniaturization, lubrication-free or low-maintenance designs, quiet motion, corrosion resistance, anti-backlash architectures and more efficient high-lead geometries, encouraging suppliers to raise value through materials, thread geometry and system-level design.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Lead Screws for Robotics 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 Lead Screws for Robotics portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Lead Screws for Robotics market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Lead Screws for Robotics and breaks down the forecast by Screw Diameter, 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 Lead Screws for Robotics.

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

Market Segmentation

Segmentation by Screw Diameter:

Up to 8 mm

>8 to 12 mm

>12 to 20 mm

Above 20 mm

Segmentation by Lead:

Up to 2 mm

>2 to 5 mm

>5 to 10 mm

Above 10 mm

Segmentation by Screw Material:

Stainless Steel

Carbon or Alloy Steel

Aluminum

Other Materials

Segmentation by Number of Starts:

Single-Start

Two-Start

Three or More Starts

Segmentation by Application:

Automotive Manufacturing

Electronics and Semiconductor

Metal and Machinery

Logistics and Warehousing

Healthcare and Laboratory

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.

Igus

Thomson

Haydon Kerk Pittman

Nook Industries

Helix Linear Technologies

NEFF Gewindetriebe

KSS

Power Jacks

Roton Products

Bornemann Gewindetechnik

Spitzschuh

WMH Herion

Nanotec Electronic

Barnes Industries

Suzhou Maitu

YSK

Key Questions Addressed in this Report

What is the 10-year outlook for the global Lead Screws for Robotics market?

What factors are driving Lead Screws for Robotics market growth, globally and by region?

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

How do Lead Screws for Robotics market opportunities vary by end market size?

How does Lead Screws for Robotics break out by Screw Diameter, by Application?

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