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Global Lead Screws for Robotics Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lead Screws for Robotics market size is expected to reach $ 525 million by 2032, rising at a market growth of 8.6% CAGR during the forecast period (2026-2032).

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.

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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

This report studies the global Lead Screws for Robotics production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Lead Screws for Robotics total production and demand, 2021-2032, (Units)

Global Lead Screws for Robotics total production value, 2021-2032, (USD Million)

Global Lead Screws for Robotics production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Lead Screws for Robotics consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Lead Screws for Robotics domestic production, consumption, key domestic manufacturers and share

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Global Lead Screws for Robotics production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Lead Screws for Robotics production by Screw Diameter, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Lead Screws for Robotics production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Lead Screws for Robotics 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 Igus, Thomson, Haydon Kerk Pittman, Nook Industries, Helix Linear Technologies, NEFF Gewindetriebe, KSS, Power Jacks, Roton Products, Bornemann Gewindetechnik, 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 Lead Screws for Robotics market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) by manufacturer, by Screw Diameter, 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 Lead Screws for Robotics Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Lead Screws for Robotics Market, Segmentation by Screw Diameter:

Up to 8 mm

>8 to 12 mm

>12 to 20 mm

Above 20 mm

Global Lead Screws for Robotics Market, Segmentation by Lead:

Up to 2 mm

>2 to 5 mm

>5 to 10 mm

Above 10 mm

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Global Lead Screws for Robotics Market, Segmentation by Screw Material:

Stainless Steel

Carbon or Alloy Steel

Aluminum

Other Materials

Global Lead Screws for Robotics Market, Segmentation by Number of Starts:

Single-Start

Two-Start

Three or More Starts

Global Lead Screws for Robotics Market, Segmentation by Application:

Automotive Manufacturing

Electronics and Semiconductor

Metal and Machinery

Logistics and Warehousing

Healthcare and Laboratory

Others

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Companies Profiled:

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 Answered

1. How big is the global Lead Screws for Robotics market?

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2. What is the demand of the global Lead Screws for Robotics market?
3. What is the year over year growth of the global Lead Screws for Robotics market?
4. What is the total value of the global Lead Screws for Robotics market?
5. Who are the Major Players in the global Lead Screws for Robotics market?
6. What are the growth factors driving the market demand?

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