

Global Linear Encoders Market Growth 2025-2031

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Abstracts

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The global Linear Encoders market size is predicted to grow from US\$ 1143 million in 2025 to US\$ 1632 million in 2031; it is expected to grow at a CAGR of 6.1% from 2025 to 2031.

Linear encoder is a sensor device used to measure the position and motion of an object, which is commonly used in industrial automation and robot control systems. Its main principle is to use internal sensors to monitor the position of the target object relative to the encoder and convert the position information into a digital signal output.

Principle of operation: A linear encoder usually consists of two main parts: the encoder head and the readhead. The encoder head is fixed to a moving object, while the readhead is relatively stationary and mounted in a fixed position. The encoder head contains a grating or magnetic stripe inside the encoder head, while the readhead contains sensors to detect changes in the grating or magnetic stripe. As the object moves, the grating or magnetic stripe changes relative to the readhead and the sensor converts these changes into a digital signal to indicate the position of the object.

The global key manufacturers of Linear Encoders include Heidenhain, Sick AG, Sensata Technologies, Renishaw, Pepperl+Fuchs, Celera Motion (Novanta), TR-Electronic, Balluff, K?bler Group, RSF Elektronik, etc. In 2023, the global top 10 players had a share approximately 66.0% in terms of revenue.

Features:

High accuracy: Linear encoders are able to provide very high position measurement accuracy, typically on the scale of microns or even smaller. High speed: thanks to digital

signal processing, linear encoders enable fast position detection and response for high-speed motion applications.

Reliability: Linear encoders typically have a long service life and stable performance, and are able to operate in harsh environments.

Non-contact: In contrast to traditional contact position sensors, linear encoders are non-contact measuring devices and therefore do not suffer from friction or wear and tear that can affect measurement accuracy.

Linear encoders play an important role in industrial applications, enabling position measurement with high accuracy, speed and reliability, thus providing key technical support for automated production and robot control.

In terms of product application, currently Machine Tools and CNC Machining is the largest segment, hold a share of 33.4%.

Main Applications:

Machine tools and machining equipment: linear encoders are commonly used in CNC machine tools and other machining equipment to accurately measure the position and motion trajectory of workpieces, thus realizing high-precision machining.

Robotic systems: In industrial robots and automation systems, linear encoders are used to determine the position of the robot's end-effector for precise motion control and path planning.

Manufacturing and assembly: Linear encoders are used to monitor the position of parts and assemblies on production lines to ensure accuracy and consistency in the assembly process.

Market growth driver:

Industrial automation: With the promotion of industrial automation and smart manufacturing, the application of linear encoders in machinery manufacturing and automation equipment will continue to grow.

Emerging markets: The Asia-Pacific region, especially China, Japan, South Korea, India and Southeast Asia, has great market potential and is expected to be an important

driver of future market growth.

Industry Policies: National policies to support high-end manufacturing, such as Made in China 2025, will boost the linear encoder market.

Challenges: Challenges faced by the linear encoder market mainly include fierce price competition, challenges posed by technological upgrades, and the impact of global economic fluctuations on the industry.

Overall, the linear encoder market is promising and is expected to continue to grow steadily in the coming years as technology continues to advance and applications expand.

LP Information, Inc. (LPI) ' newest research report, the "Linear Encoders Industry Forecast" looks at past sales and reviews total world Linear Encoders sales in 2024, providing a comprehensive analysis by region and market sector of projected Linear Encoders sales for 2025 through 2031. With Linear Encoders sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Linear Encoders industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Linear Encoders and breaks down the forecast by Type, 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 Linear Encoders.

This report presents a comprehensive overview, market shares, and growth opportunities of Linear Encoders market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Incremental Linear Encoders

Absolute Linear Encoders

Segmentation by Application:

Machine Tools and CNC Machining

Robotics and Automated Manufacturing

Electronics Assembly and Semiconductor Manufacturing

Elevator

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.

Heidenhain

Sick AG

Sensata Technologies

Renishaw

Pepperl+Fuchs

Celera Motion (Novanta)

TR-Electronic

Balluff

K?bler Group

RSF Elektronik

Fagor Automation

Changchun Yuheng Optics

Baumer

TOFI Sensing Technology

RLS d.o.o.

SIKO

Resson

Automation Sensorik Messtechnik

Changchun Rongde Optics

Givi Misure

Lika Electronic

Electronica Mechatronic Systems

GURLEY Precision Instruments

Key Questions Addressed in this Report

What is the 10-year outlook for the global Linear Encoders market?

What factors are driving Linear Encoders market growth, globally and by region?

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

How do Linear Encoders market opportunities vary by end market size?

How does Linear Encoders break out by Type, by Application?

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