

Global Optical Linear Encoders Market Growth 2025-2031

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Abstracts

The global Optical Linear Encoders market size is predicted to grow from US\$ 454 million in 2025 to US\$ 624 million in 2031; it is expected to grow at a CAGR of 5.4% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Optical linear scales, or linear encoders. Linear encoders measure the position of linear axes without intervening mechanical elements. This eliminates a series of potential error sources such as backlash, pitch error, or heating of the recirculating ball screw. Wherever rigorous position accuracy and high machining speeds are needed, linear encoders are essential.

Types of Linear Encoders include:

Sealed Linear Encoders: Sealed linear encoders feature optimal protection from dust, chips, and splash water. They are especially ideal for use in manually operated machine tools and also in numerically controlled machine tools.

Exposed Linear Encoders: Exposed linear encoders have zero mechanical contact between the scanning head and the scale or scale tape. Applications include production and measuring equipment in the semiconductor industry, as well as pick-and-place machines and direct drive systems.

Currently the key manufacturers of Optical Linear Encoders include HEIDENHAIN,

Fagor Automation, Renishaw, Mitutoyo, TR-Electronic GmbH, TR-Electronic GmbH, and Givi Misure. Among them, HEIDENHAIN is the world's largest linear encoders manufacturer, accounting for more than 50% of the global market share.

CNC machine tools are the largest application market for optical scales. According to our research, the global CNC machine tool market size was US\$ 60 billion in 2023 and is expected to reach US\$90 billion in 2030. The global key manufacturers of CNC machine tools include Yamazaki Mazak, Trumpf, Okuma Corporation, Makino, JTEKT Corporation, DMG Mori Seiki, DN Solutions, Grob-Werke, Haas Automation, Hermle, etc. In 2023, the global top five players had a share approximately 20 % in terms of revenue.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Optical 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 Optical Linear Encoders.

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

Segmentation by Type:

Sealed Linear Encoders

Exposed Linear Encoders

Segmentation by Application:

Machine Tools

Measuring and Control Equipment

Others (like Press Brakes)

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

Fagor Automation

Renishaw

Mitutoyo

TR-Electronic GmbH

Precizika Metrology

Givi Misure

Elbo Controlli Srl

Celera Motion (MICROE)

Atek Electronic Sensor Technologies

SINO/Guangzhou Lokshun CNC Equipment

SOXIN

Changchun Yuheng Optics

Dongguan Ouxin Precision Instrument

Key Questions Addressed in this Report

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

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

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

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

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

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