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Global Exposed Linear Encoder Market Growth 2025-2031

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Abstracts

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The global Exposed Linear Encoder market size is predicted to grow from US$ 100 million in 2025 to US$ 143 million in 2031; it is expected to grow at a CAGR of 6.1% from 2025 to 2031.

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 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.

Exposed linear encoders are mainly used in semiconductor production and measuring equipment.

The global market for semiconductor was estimated at US$ 526.8 billion in the year 2023, is projected to US$ 780.7 billion by 2030. IC Manufacturing is the process used to manufacture semiconductor devices, typically integrated circuits (ICs) such as computer processors, microcontrollers, and memory chips (such as NAND flash and DRAM). According to our research, the global semiconductor manufacturing (wafer fabrication) market is projected to grow from US$ 251.7 billion in 2023 to US$ 506.5 billion by 2030, at a Compound Annual Growth Rate (CAGR) of 40.49% during the forecast period. This will drive rapid growth of global Exposed linear encoders.

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

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

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

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

Segmentation by Type:

Incremental Linear Encoder

Absolute Linear Encoder

Segmentation by Application:

Semiconductor Measuring Equipment

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Pick-And-Place Machines and Direct Drive Systems

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

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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

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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 Exposed Linear Encoder market?

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

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

How do Exposed Linear Encoder market opportunities vary by end market size?

How does Exposed Linear Encoder break out by Type, by Application?

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