

Global Exposed Linear Encoder Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Exposed Linear Encoder market size was valued at US\$ 100 million in 2024 and is forecast to a readjusted size of USD 147 million by 2031 with a CAGR of 5.7% during review period.

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.

This report is a detailed and comprehensive analysis for global Exposed Linear Encoder market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Exposed Linear Encoder market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Exposed Linear Encoder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Exposed Linear Encoder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Exposed Linear Encoder market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Exposed Linear Encoder

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Exposed Linear Encoder market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include HEIDENHAIN, Fagor Automation, Renishaw, Mitutoyo, TR-Electronic GmbH, Precizika Metrology, Givi Misure, Elbo Controlli Srl, Celera Motion (MICROE), Atek Electronic Sensor Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Exposed Linear Encoder market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Incremental Linear Encoder

Absolute Linear Encoder

Market segment by Application

Semiconductor Measuring Equipment

Pick-And-Place Machines and Direct Drive Systems

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Exposed Linear Encoder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Exposed Linear Encoder, with price, sales quantity, revenue, and global market share of Exposed Linear Encoder from 2020 to 2025.

Chapter 3, the Exposed Linear Encoder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Exposed Linear Encoder breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Exposed Linear Encoder market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Exposed Linear Encoder.

Chapter 14 and 15, to describe Exposed Linear Encoder sales channel, distributors, customers, research findings and conclusion.

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