

# Global Linear Optical Encoders Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Linear Optical Encoders market size is expected to reach \$ 955 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

Linear optical encoders are photoelectric position-sensing systems that convert straight-line motion into digital position/velocity signals by reading a patterned scale with a light source and sensor, built on an industry chain of upstream optoelectronic components and precision glass/metal scales and mechanical sealing parts through midstream readheads, interpolation electronics, and encoder assemblies, and sold into downstream applications such as CNC and other machine tools, semiconductor and electronics production equipment, metrology/inspection stages, robotics and automation axes, and medical/precision positioning systems.

In 2025, global Linear Optical Encoders production reached approximately 12233 K Units, with an average global market price of around US\$ 56.0 per unit. The global single-line production capacity ranges from 200 to 300 K Units per year. The industry's gross profit margin is approximately 30%-40%.

This report studies the global Linear Optical Encoders production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Linear Optical Encoders 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 Linear Optical Encoders that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Linear Optical Encoders total production and demand, 2021-2032, (K Units)

Global Linear Optical Encoders total production value, 2021-2032, (USD Million)

Global Linear Optical Encoders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Linear Optical Encoders consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Linear Optical Encoders domestic production, consumption, key domestic manufacturers and share

Global Linear Optical Encoders production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Linear Optical Encoders production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Linear Optical Encoders production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Linear Optical Encoders 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 Broadcom, BEI Sensors, Renishaw, Dynapar, Baumer Group, TAMAGAWA SEIKI, CTS, Allied Motion, EPC, US Digital, 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 Linear Optical Encoders market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, 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 Linear Optical Encoders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Linear Optical Encoders Market, Segmentation by Type:

Incremental Encoders

Absolute Encoders

#### Global Linear Optical Encoders Market, Segmentation by Sales Channel:

Online

Offline

#### Global Linear Optical Encoders Market, Segmentation by Mechanical Construction:

Shaft Encoders

Hollow-Shaft Encoders

Ring Encoders

Others

Global Linear Optical Encoders Market, Segmentation by Optical Principle:

Transmissive

Reflective

Interferential

Global Linear Optical Encoders Market, Segmentation by Application:

Healthcare

Machine Tool

Consumer Electronics

Assembly Equipment

Others

Companies Profiled:

Broadcom

BEI Sensors

Renishaw

Dynapar

Baumer Group

TAMAGAWA SEIKI

CTS

Allied Motion

EPC

US Digital

CUI

OMRON Corporation

HEIDENHAIN

Bourns

Grayhill

Gurley Precision Instruments

HONEYWELL INTERNATIONAL INC

Graduate Honest Sensor Corp

HONTKO

Yuheng Optics

Inovance Technology

### **Key Questions Answered:**

1. How big is the global Linear Optical Encoders market?

2. What is the demand of the global Linear Optical Encoders market?
3. What is the year over year growth of the global Linear Optical Encoders market?
4. What is the production and production value of the global Linear Optical Encoders market?
5. Who are the key producers in the global Linear Optical Encoders market?
6. What are the growth factors driving the market demand?

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