

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

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Abstracts

The global Rotary Optical Encoders market size is expected to reach \$ 1814 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

Rotary optical encoders are photoelectric motion-feedback devices that convert a shaft's rotation into position/speed signals by reading a patterned code disc with an LED and sensor, built on an industry chain of upstream optoelectronic components and precision discs/housings through midstream encoder modules/assemblies, and sold into downstream applications such as servo motors, industrial automation and robots, machine tools, AGVs/AMRs, elevators/conveyors, and medical/precision equipment.

In 2025, global Rotary Optical Encoders production reached approximately 17637 K Units, with an average global market price of around US\$ 71.2 per unit. The global single-line production capacity ranges from 300 to 500 K Units per year. The industry's gross profit margin is approximately 30%-40%.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Rotary 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 Rotary 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 Rotary Optical Encoders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Rotary Optical Encoders Market, Segmentation by Type:

Incremental Encoders

Absolute Encoders

Global Rotary Optical Encoders Market, Segmentation by Sales Channel:

Online

Offline

Global Rotary Optical Encoders Market, Segmentation by Mechanical Construction:

Shaft Encoders

Hollow-Shaft Encoders

Ring Encoders

Others

Global Rotary Optical Encoders Market, Segmentation by Optical Principle:

Transmissive

Reflective

Interferential

Global Rotary 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 Rotary Optical Encoders market?

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

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