

Global Incremental Rotary Encoder(Grating) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Incremental Rotary Encoder(Grating) market size is expected to reach \$ 10.09 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

In 2025, global incremental rotary encoder(grating) production reached 6,882 units, with an average selling price of \$964 per unit. An incremental rotary encoder(grating) is a rotary position/velocity sensor that uses a circular grating scale (disc/ring markings) and an optical readhead as its core, outputting A/B two-phase quadrature pulses and capable of providing a zero-position Z-phase (index). It does not provide a "unique address-based angle value" itself, but rather obtains the relative angular displacement through pulse counting and relies on the Z-phase or an external reference point to achieve zeroing. Therefore, a reference needs to be re-established after a power outage. Applications cover CNC machine tools and rotary tables, robot joints and servo motor feedback, semiconductor manufacturing and testing equipment, precision measuring machines/CMMs, and ultra-precision machining equipment. The upstream of the industry chain includes substrates (glass/low-expansion materials/stainless steel strip), consumables for photolithography/etching or laser direct writing processes (photoresist, developing/etching chemicals), precision coating and surface treatment, and high-precision testing and calibration equipment (roundness, grating error, thermal stability); the midstream is the manufacturing and calibration of circular gratings; the downstream enters angle encoder/rotary encoder manufacturers and motion control system integrators, ultimately selling to OEMs of machine tools, robots, semiconductor equipment, measuring machines, etc. Gross profit margin is approximately 20%–45%.

This report studies the global Incremental Rotary Encoder(Grating) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Incremental Rotary Encoder(Grating) 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 Incremental Rotary Encoder(Grating) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Incremental Rotary Encoder(Grating) total production and demand, 2021-2032, (Units)

Global Incremental Rotary Encoder(Grating) total production value, 2021-2032, (USD Million)

Global Incremental Rotary Encoder(Grating) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Incremental Rotary Encoder(Grating) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Incremental Rotary Encoder(Grating) domestic production, consumption, key domestic manufacturers and share

Global Incremental Rotary Encoder(Grating) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Incremental Rotary Encoder(Grating) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Incremental Rotary Encoder(Grating) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Incremental Rotary Encoder(Grating) 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 Renishaw, Zeiss, RLS, Precilec, LAMOTION, Agico Technology (Shenzhen), 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 Incremental Rotary Encoder(Grating) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Incremental Rotary Encoder(Grating) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Incremental Rotary Encoder(Grating) Market, Segmentation by Type:

Disc Type

Ring Type

Global Incremental Rotary Encoder(Grating) Market, Segmentation by Output Electrical Signal Form:

Digital Square Wave

Analog Sine/Cosine

Global Incremental Rotary Encoder(Grating) Market, Segmentation by Application:

CNC Machine Tool

Robot

Semiconductor Equipments

Others

Companies Profiled:

Renishaw

Zeiss

RLS

Precilec

LAMOTION

Agico Technology (Shenzhen)

Key Questions Answered:

1. How big is the global Incremental Rotary Encoder(Grating) market?
2. What is the demand of the global Incremental Rotary Encoder(Grating) market?
3. What is the year over year growth of the global Incremental Rotary Encoder(Grating) market?

4. What is the production and production value of the global Incremental Rotary Encoder(Grating) market?
5. Who are the key producers in the global Incremental Rotary Encoder(Grating) market?
6. What are the growth factors driving the market demand?

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