

Global Incremental Rotary Encoder(Grating) Market Growth 2026-2032

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Abstracts

The global Incremental Rotary Encoder(Grating) market size is predicted to grow from US\$ 6.49 million in 2025 to US\$ 9.79 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 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%.

United States market for Incremental Rotary Encoder(Grating) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through

2032.

China market for Incremental Rotary Encoder(Grating) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Incremental Rotary Encoder(Grating) is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Incremental Rotary Encoder(Grating) players cover Renishaw, Zeiss, RLS, Precilec, LAMOTION, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Incremental Rotary Encoder(Grating) Industry Forecast" looks at past sales and reviews total world Incremental Rotary Encoder(Grating) sales in 2025, providing a comprehensive analysis by region and market sector of projected Incremental Rotary Encoder(Grating) sales for 2026 through 2032. With Incremental Rotary Encoder(Grating) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Incremental Rotary Encoder(Grating) industry.

This Insight Report provides a comprehensive analysis of the global Incremental Rotary Encoder(Grating) 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 Incremental Rotary Encoder(Grating) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Incremental Rotary Encoder(Grating) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Incremental Rotary Encoder(Grating) 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 Incremental Rotary Encoder(Grating).

This report presents a comprehensive overview, market shares, and growth opportunities of Incremental Rotary Encoder(Grating) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Disc Type

Ring Type

Segmentation by Output Electrical Signal Form:

Digital Square Wave

Analog Sine/Cosine

Segmentation by Application:

CNC Machine Tool

Robot

Semiconductor Equipments

Others

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

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.

Renishaw

Zeiss

RLS

Precilec

LAMOTION

Agico Technology (Shenzhen)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Incremental Rotary Encoder(Grating) market?

What factors are driving Incremental Rotary Encoder(Grating) market growth, globally and by region?

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

How do Incremental Rotary Encoder(Grating) market opportunities vary by end market size?

How does Incremental Rotary Encoder(Grating) break out by Type, by Application?

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