

Global Incremental Rotary Encoder(Grating) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Incremental Rotary Encoder(Grating) market size was valued at US\$ 6.82 million in 2025 and is forecast to a readjusted size of US\$ 10.09 million by 2032 with a CAGR of 5.7% during review period.

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 is a detailed and comprehensive analysis for global Incremental Rotary Encoder(Grating) 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 Incremental Rotary Encoder(Grating) market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Incremental Rotary Encoder(Grating) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Incremental Rotary Encoder(Grating) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Incremental Rotary Encoder(Grating) market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 Incremental Rotary Encoder(Grating)
- 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 Incremental Rotary Encoder(Grating) 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 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.

Market Segmentation

Incremental Rotary Encoder(Grating) market is split by Type and by Application. For the period 2021-2032, 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

Disc Type

Ring Type

Market segment by Output Electrical Signal Form

Digital Square Wave

Analog Sine/Cosine

Market segment by Application

CNC Machine Tool

Robot

Semiconductor Equipments

Others

Major players covered

Renishaw

Zeiss

RLS

Precilec

LAMOTION

Agico Technology (Shenzhen)

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 Incremental Rotary Encoder(Grating) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Incremental Rotary Encoder(Grating), with price, sales quantity, revenue, and global market share of Incremental Rotary Encoder(Grating) from 2021 to 2026.

Chapter 3, the Incremental Rotary Encoder(Grating) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Incremental Rotary Encoder(Grating) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Incremental Rotary Encoder(Grating) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Incremental Rotary Encoder(Grating).

Chapter 14 and 15, to describe Incremental Rotary Encoder(Grating) sales channel, distributors, customers, research findings and conclusion.

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