

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

<https://marketpublishers.com/r/G8A9B3BB83CCEN.html>

Date: January 2026

Pages: 104

Price: US\$ 4,480.00 (Single User License)

ID: G8A9B3BB83CCEN

Abstracts

The global Rotary Encoder(Grating) market size is expected to reach \$ 65.95 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

In 2025, global production of rotary encoder(grating) reached 23,440 units, with an average selling price of US\$1,872 per unit. A circular grating refers to a grating with equally spaced etched lines/tracks on a disk or ring substrate. It is read by a reading head using optical/sensing methods, converting the rotational angular position and speed into electrical signals that can be used for servo control and measurement. Applications include 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, scribing error, thermal stability); the midstream involves circular grating manufacturing and calibration; 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 35%–50%.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global 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 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 Rotary Encoder(Grating) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Incremental

Absolute

Global Rotary Encoder(Grating) Market, Segmentation by Geometry:

Disc

Ring

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

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