

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

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## Abstracts

The global Absolute Rotary Encoder(Grating) market size is expected to reach \$ 54.04 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

In 2025, global production of absolute rotary encoder(grating) reached 16,340 units, with an average selling price of US\$2,282 per unit. An absolute rotary encoder(grating) refers to an angle measurement/position feedback device centered on a circular grating scale (disc/ring markings or absolute code tracks) + reading head. It outputs a "unique code of the current position," thus directly providing the absolute angular position of the axis after power failure and re-energization (without needing to return to zero). 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, engraving 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 25%–50%.

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

This report is a detailed and comprehensive analysis of the world market for Absolute

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 Absolute Rotary Encoder(Grating) that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Absolute UHV Rotary Encoder(Grating)

Absolute ETR Rotary Encoder(Grating)

Global Absolute Rotary Encoder(Grating) Market, Segmentation by Encoding Method:

Single-Turn Absolute

Multi-Turn Absolute

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

6. What are the growth factors driving the market demand?

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