

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

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Abstracts

The global Absolute Rotary Encoder(Grating) market size is predicted to grow from US\$ 36.48 million in 2025 to US\$ 52.29 million in 2032; it is expected to grow at a CAGR of 5.3% from 2026 to 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%.

United States market for Absolute 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 Absolute 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 Absolute 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 Absolute 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 "Absolute Rotary Encoder(Grating) Industry Forecast" looks at past sales and reviews total world Absolute Rotary Encoder(Grating) sales in 2025, providing a comprehensive analysis by region and market sector of projected Absolute Rotary Encoder(Grating) sales for 2026 through 2032. With Absolute 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 Absolute Rotary Encoder(Grating) industry.

This Insight Report provides a comprehensive analysis of the global Absolute 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 Absolute 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 Absolute Rotary Encoder(Grating) market.

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

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

Segmentation by Type:

Absolute UHV Rotary Encoder(Grating)

Absolute ETR Rotary Encoder(Grating)

Segmentation by Encoding Method:

Single-Turn Absolute

Multi-Turn Absolute

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 Absolute Rotary Encoder(Grating) market?

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

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

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

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

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