

Global Grating Angle Encoders Market Growth 2026-2032

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Abstracts

The global Grating Angle Encoders market size is predicted to grow from US\$ 540 million in 2025 to US\$ 752 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 2032.

Grating Angle Encoders are precision electromechanical sensors that measure angular position, rotation, and motion of a shaft or rotating element by detecting optical or magnetic gratings and converting them into precise electrical signals for high-accuracy feedback in automation, servo controls, CNC machine tools, robotics, and motion systems. They employ optical gratings, sensors, and read-head electronics to provide high-resolution angle measurements critical for positioning and motion control.

The grating angle encoder industry chain begins upstream with the supply of high-precision optical gratings, magnetic scale materials, semiconductor ICs, precision bearings and photodetectors, proceeds through midstream precision fabrication including grating fabrication, electronics assembly, sensor integration, calibration, and embedded firmware/software development, and moves downstream into system integration by machine tool OEMs, robotics manufacturers and automation integrators for closed-loop feedback in motion control and positioning systems, supported by global distribution networks, application engineering services, calibration laboratories, and aftermarket support for installation, diagnostics and maintenance.

Across the global sensor and automation sector, leading encoder OEMs and system integrators are executing projects including expanded precision measurement manufacturing facilities in Asia Pacific and Europe, R&D centers for next-generation optical and magnetic grating encoders with enhanced resolution and integrated digital interfaces, pilot programs for encoder integration in AI-enabled motion control systems,

smart factory deployments with widespread sensor feedback networks, collaborative ventures with CNC machine builders for embedded encoder solutions, certification labs for industrial standards, aftermarket calibration service hubs, retrofit programs upgrading legacy machines with modern grating encoders, and partnerships targeting EV manufacturing and semiconductor automation demand.

In 2025, the global market sales 650,000 units, with an average global market price of USD 850 per unit, and a market average gross profit margin of 18%.

United States market for Grating Angle Encoders 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 Grating Angle Encoders 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 Grating Angle Encoders is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Grating Angle Encoders players cover HEIDENHAIN, Asahi Kasei, FAGOR, RENISHAW, K?bler Group, 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 "Grating Angle Encoders Industry Forecast" looks at past sales and reviews total world Grating Angle Encoders sales in 2025, providing a comprehensive analysis by region and market sector of projected Grating Angle Encoders sales for 2026 through 2032. With Grating Angle Encoders sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Grating Angle Encoders industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Grating Angle Encoders 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 Grating Angle Encoders.

This report presents a comprehensive overview, market shares, and growth opportunities of Grating Angle Encoders market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Magnetic Grating Encoders

Capacitive Grating Encoders

Inductive Grating Encoders

Segmentation by Output Type:

Incremental Angle Encoders

Absolute Angle Encoders

Others

Segmentation by Mounting Style:

Hollow Shaft Encoders

Solid Shaft Encoders

Others

Segmentation by Application:

CNC Machine Tools

Industrial Robots

Defense and Military Industry

Aerospace

Other

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.

HEIDENHAIN

Asahi Kasei

FAGOR

RENISHAW

K?bler Group

Baumer Group

Dynapar

RLS

Yuheng Optics Co., Ltd

PMT

Key Questions Addressed in this Report

What is the 10-year outlook for the global Grating Angle Encoders market?

What factors are driving Grating Angle Encoders market growth, globally and by region?

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

How do Grating Angle Encoders market opportunities vary by end market size?

How does Grating Angle Encoders break out by Type, by Application?

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