

# Global Magnetic Encoder Market Growth 2026-2032

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## Abstracts

The global Magnetic Encoder market size is predicted to grow from US\$ 1247 million in 2025 to US\$ 1974 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

A Magnetic Encoder is a sensing device that determines position, angle, or rotational speed by detecting changes in a magnetic field. It typically consists of a magnetic source (magnetic ring or strip), magnetic sensor IC (Hall, AMR, GMR, or TMR), and signal processing electronics. This report summarizes magnetic encoder products with complete structures. In 2025, global magnetic encoder production reached approximately 10786.4 K Units. The upstream supply chain mainly consists of magnetic materials and magnetic sensor ICs. Downstream applications cover motor control, robotics, industrial automation, and automotive systems.

The magnetic encoder market has been experiencing steady growth, driven by rapid developments in industrial automation, electric vehicles, robotics, and smart manufacturing. As a sensing technology that detects position, speed, and angular displacement through magnetic field variations, magnetic encoders offer key advantages such as robustness against dust, oil, and vibration, simple structure, and cost efficiency, making them increasingly competitive compared to optical encoders in industrial and automotive applications. Demand is primarily driven by applications in motor control systems, industrial robots, CNC machinery, electric power steering (EPS), and electric vehicle traction systems. With the ongoing transition toward automation and electrification, the adoption of magnetic encoders continues to expand across multiple industries. Technological advancements are further pushing the market toward higher resolution, miniaturization, lower power consumption, and greater integration, particularly with the adoption of advanced sensing technologies such as TMR.

LP Information, Inc. (LPI) ' newest research report, the ?Magnetic Encoder Industry

Forecast? looks at past sales and reviews total world Magnetic Encoder sales in 2025, providing a comprehensive analysis by region and market sector of projected Magnetic Encoder sales for 2026 through 2032. With Magnetic Encoder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Magnetic Encoder industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Magnetic Encoder 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 Magnetic Encoder.

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

#### Segmentation by Type:

Incremental Magnetic Encoder

Absolute Magnetic Encoder

#### Segmentation by Measurement:

Rotary Magnetic Encoder

Linear Magnetic Encoder

Multi-turn Encoder

## Single-turn Encoder

### Segmentation by Output Signal:

Analog

Digital

### Segmentation by Magnetic Sensing Technology:

Hall Effect

AMR

GMR

TMR

### Segmentation by Application:

Elevator Industry

Machine Tool

Motor

Food and Packaging

Automobile Industry

New Energy Vehicles

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.

Heidenhain

Dynapar

Tamagawa

Baumer

Pepperl+Fuchs

Renishaw

SICK

Kubler

Broadcom

Sensata Technologies

Bourns

Balluff

Hutchinson

Wachendorff Automation

TR-Electronic

Lika Electronic

Leadshine

SIVIDI

ZeroErr

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Magnetic Encoder market?

What factors are driving Magnetic Encoder market growth, globally and by region?

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

How do Magnetic Encoder market opportunities vary by end market size?

How does Magnetic Encoder break out by Type, by Application?

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