

Global Magnetic Encoder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnetic Encoder market size is expected to reach \$ 2028 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

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.

This report studies the global Magnetic Encoder production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Magnetic Encoder total production and demand, 2021-2032, (K Units)

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

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

Global Magnetic Encoder consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Magnetic Encoder domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Magnetic Encoder 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 Heidenhain, Dynapar, Tamagawa, Baumer, Pepperl+Fuchs, Renishaw, SICK, Kubler, Broadcom, Sensata Technologies, 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 Magnetic Encoder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Magnetic Encoder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Magnetic Encoder Market, Segmentation by Type:

Incremental Magnetic Encoder

Absolute Magnetic Encoder

Global Magnetic Encoder Market, Segmentation by Measurement:

Rotary Magnetic Encoder

Linear Magnetic Encoder

Multi-turn Encoder

Single-turn Encoder

Global Magnetic Encoder Market, Segmentation by Output Signal:

Analog

Digital

Global Magnetic Encoder Market, Segmentation by Magnetic Sensing Technology:

Hall Effect

AMR

GMR

TMR

Global Magnetic Encoder Market, Segmentation by Application:

Elevator Industry

Machine Tool

Motor

Food and Packaging

Automobile Industry

New Energy Vehicles

Others

Companies Profiled:

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 Answered:

1. How big is the global Magnetic Encoder market?
2. What is the demand of the global Magnetic Encoder market?
3. What is the year over year growth of the global Magnetic Encoder market?
4. What is the production and production value of the global Magnetic Encoder market?
5. Who are the key producers in the global Magnetic Encoder market?
6. What are the growth factors driving the market demand?

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