

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

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## Abstracts

The global Motor Feedback Magnetic Encoder market size is expected to reach \$ 575 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

A motor feedback magnetic encoder is a fully packaged feedback product or motor-integrated feedback unit sold for direct use in motor shaft position, speed, direction, commutation, or closed-loop control applications. Such products typically include the magnetic target, sensing element, signal-processing circuitry, output interface, and mounting structure, allowing them to function as complete encoder modules for closed-loop stepper motors, BLDC/PMSM motors, servo motors, robotic joints, actuators, and other motion-control systems. In 2025, global motor feedback magnetic encoder production reached approximately 21795 K Units. The upstream of the complete motor feedback magnetic encoder industry includes magnets or magnetic rings, magnetic sensing ICs, ASICs or signal-processing electronics, PCBs, connectors, bearings, housings, and molded mechanical parts. Although sensing chips and magnetic targets are critical components, they are treated only as cost inputs under this market scope and are not counted separately in the market size. The downstream consists of manufacturers of closed-loop stepper motors, BLDC/PMSM motors, servo motors, robotic joints, medical micro-motors, and broader motion-control equipment. In this value chain, the primary market value is realized at the complete encoder product level rather than at the standalone chip level, which is why market sizing should be based on complete encoder products only.

The motor feedback magnetic encoder market covers fully packaged encoder products or motor-integrated feedback units used for motor shaft position, speed, direction, commutation, and closed-loop control. In recent years, the market has been driven not

only by partial substitution of optical encoders, but also by the intrinsic advantages of magnetic technology in dust resistance, moisture resistance, shock tolerance, larger installation tolerances, compact form factor, and ease of integration. From a competitive standpoint, the market combines standardization at the interface level with strong application-specific customization at the mechanical level. Output formats, feedback functions, and integration with motor drives are becoming more standardized, but differences in shaft size, pole count, mounting space, and environmental requirements still require encoder suppliers to offer modular and application-tailored solutions. Future growth is likely to come from industrial automation upgrades, robotics and intelligent actuators, and broader demand for compact, reliable, and cost-balanced motor feedback solutions.

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

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

### **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global Motor Feedback 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 (RLS), 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 Motor Feedback 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 Motor Feedback Magnetic Encoder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Motor Feedback Magnetic Encoder Market, Segmentation by Type:

Incremental Magnetic Encoder

Absolute Magnetic Encoder

## Global Motor Feedback Magnetic Encoder Market, Segmentation by Mounting Structure:

On-axis

Off-axis

Hollow-shaft or Bearingless

Motor-integrated

## Global Motor Feedback Magnetic Encoder Market, Segmentation by Output Signal:

Analog

Digital

## Global Motor Feedback Magnetic Encoder Market, Segmentation by Magnetic Sensing Technology:

Hall Effect

AMR

TMR

Others

## Global Motor Feedback Magnetic Encoder Market, Segmentation by Application:

Closed-loop Stepper Motors

Brushless DC and PMSM Motors

Servo Motors

Micro Motors

Companies Profiled:

Heidenhain

Dynapar

Tamagawa

Baumer

Pepperl+Fuchs

Renishaw (RLS)

SICK

Kubler

Broadcom

Sensata Technologies

Balluff

Wachendorff Automation

TR-Electronic

Lika Electronic

Leadshine

SIVIDI

ZeroErr

Timken Encoders

Portescap

Maxon

**Key Questions Answered:**

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

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