

Global Hall Type Magnetic Encoder Chip Market Growth 2026-2032

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Abstracts

The global Hall Type Magnetic Encoder Chip market size is predicted to grow from US\$ 77.18 million in 2025 to US\$ 117 million in 2032; it is expected to grow at a CAGR of 6.3% from 2026 to 2032.

The Hall magnetic encoder chip is an electronic component that uses the Hall effect to detect changes in the magnetic field. It can convert the strength and direction of the magnetic field into electrical signals to achieve measurement and control of parameters such as object position, speed, angle, etc. The Hall effect means that when a conductor passes through a current, if a magnetic field is applied on a plane perpendicular to the direction of the current, a potential difference perpendicular to the direction of the current and the magnetic field will be generated on both sides of the conductor. This potential difference is called Hall voltage. The size of the Hall voltage is related to the current, magnetic field and properties of the conductor material. Hall magnetic encoder chips usually consist of one or more Hall sensors and a signal processing circuit. Hall sensors can detect changes in the magnetic field and output a voltage signal proportional to it. The signal processing circuit can amplify, filter, shape, encode and other operations on this signal to obtain a digital or analog signal suitable for subsequent equipment.

In 2024, global Hall Type Magnetic Encoder Chip sales volume reached approximately 15.9 million units, with an average global market price of around 4.6 US\$ per unit.

1. Rapid Growth of Electric Motors, Robotics, and Precision Automation

A major driver of the magnetic encoder chip market is the global expansion of electric motors and automated machinery across industries such as robotics, industrial

automation, e-mobility, HVAC, consumer electronics, and smart manufacturing. Magnetic encoder chips provide compact, cost-effective, and highly reliable position and angle sensing inside BLDC, PMSM, and stepper motors—components that are increasingly used in robots, AGVs/AMRs, servo systems, drones, and factory automation equipment. As Industry 4.0 and industrial robotics adoption accelerate, the demand for integrated motor-feedback solutions grows sharply. Magnetic encoder chips have become the preferred sensing technology because they offer high resolution, contactless operation, and resilience to dust, oil, vibration, and mechanical wear, making them ideal for harsh industrial and automotive environments.

2. Rising Adoption of Automotive Electrification and Advanced Driver Assistance Systems (ADAS)

Automotive electrification—including EV traction motors, e-steering, brake-by-wire, and electronically controlled actuators—creates strong demand for magnetic encoder chips that provide high-accuracy angle, speed, and position information. Modern vehicles incorporate dozens of position sensors for steering angle, throttle position, pedal sensing, transmission control, mirror and seat motors, and thermal management systems. Magnetic encoder chips, especially AMR, GMR, and TMR technologies, are increasingly selected because they offer high precision, high temperature tolerance, and long-term stability that meets automotive safety requirements (ASIL-B/D). As ADAS and autonomous driving systems require more accurate and redundant position sensing, magnetic encoder chips play a critical role in ensuring safe and reliable motor control, thereby driving significant market growth in the automotive sector.

3. Transition Toward High-Resolution, Low-Power, and Integrated Sensor Solutions

A third major market driver is the technological shift toward higher-resolution, lower-power, and fully integrated sensing solutions that reduce system size and cost. New magnetic encoder chips combine advanced sensing technologies—such as TMR, GMR, and high-precision Hall arrays—with on-chip analog-to-digital conversion, DSP interpolation, self-calibration, and digital interfaces like SPI, I²C, SENT, and ABI. This level of integration allows encoder chips to replace bulkier optical encoders and mechanical position sensors, enabling compact motor designs for drones, gimbals, medical devices, home appliances, and consumer electronics. Furthermore, low-power magnetic encoders support battery-driven devices and emerging IoT applications. As design engineers prioritize compactness, reduced BOM cost, and high performance, integrated magnetic encoder chips continue to gain market share across multiple industries.

LP Information, Inc. (LPI) ' newest research report, the “Hall Type Magnetic Encoder Chip Industry Forecast” looks at past sales and reviews total world Hall Type Magnetic Encoder Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected Hall Type Magnetic Encoder Chip sales for 2026 through 2032. With Hall Type Magnetic Encoder Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Hall Type Magnetic Encoder Chip industry.

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

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

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

Segmentation by Type:

On-Axis

Off-Axis

Segmentation by Product:

Incremental Type

Absolute Type

Segmentation by Function:

Rotary Type

Linear Type

Angle Type

Segmentation by Application:

Automobile Industry

Medical Industry

Consumer Electronics Industry

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.

Broadcom

AMS

TE Connectivity

Allegro MicroSystems

Magntek

Asahi Kasei Microdevices

iC-Haus GmbH

Melexis

MultiDimension Technology

SEMIMENT

RLS

Xi'an Zhongke Alpha Electronic Technology

Key Questions Addressed in this Report

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

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

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

How do Hall Type Magnetic Encoder Chip market opportunities vary by end market size?

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

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