

Global TMR Magnetic Encoder Chips Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global TMR Magnetic Encoder Chips market size was valued at US\$ 100 million in 2025 and is forecast to a readjusted size of US\$ 147 million by 2032 with a CAGR of 5.7% during review period.

The TMR magnetic encoder chip is a high-precision magnetic position sensing chip based on the Tunneling Magnetoresistance (TMR) effect. By detecting minute changes in magnetic field direction or intensity, it converts information such as rotational angle, linear displacement, speed, or position into electrical signal outputs, enabling high-precision position measurement and motion control. Typically composed of a TMR sensing unit, signal conditioning circuitry, an analog-to-digital converter (ADC), a digital signal processor (DSP), and communication interfaces, the TMR chip serves as the core component of TMR magnetic encoder systems.

The upstream segment of the industry chain primarily comprises suppliers of magnetic tunnel junction (MTJ) materials, magnetic thin-film materials, silicon wafers, semiconductor manufacturing equipment, packaging and testing services, and permanent magnets (such as NdFeB and ferrite rings), alongside providers of supporting components like EDA design tools, analog ICs, power management chips, and MCUs. The midstream segment consists of TMR magnetic encoder chip design and manufacturing enterprises responsible for TMR sensing unit design, MTJ process development, signal processing algorithms, ASIC integration, circuit design, wafer fabrication, packaging and testing, and system calibration; these companies produce devices such as rotary angle sensors, absolute encoder chips, and incremental encoder chips. The downstream segment encompasses a wide range of applications, including robotics, industrial automation, automotive electronics, and medical equipment.

In 2025, global sales volume for TMR magnetic encoder chips reached 15 million pcs, with a production capacity of approximately 21 million pcs; the average selling price was \$6.50 per pcs, and the average gross profit margin ranged from 30% to 40%.

Product technology is evolving towards higher resolution, miniaturization, lower power consumption, greater integration, and stronger anti-interference capabilities. TMR sensor chips and signal processing modules are increasingly integrated, enabling ABZ pulse, SSI, I²C, PWM, and industrial bus outputs, improving system compatibility and ease of installation. Magnetic ring design, temperature compensation algorithms, and microprocessor control optimizations ensure encoders maintain high accuracy under high-frequency motion, vibration, and wide-temperature environments. Future development trends include modular design, intelligent condition monitoring, and deep integration with digital twins and industrial control systems.

Global industrial automation, smart manufacturing, and robotics policies are driving the development of the TMR magnetic encoder market. China's 'Made in China 2025,' Europe's Industry 4.0 strategy, Japan's automation upgrade plan, and policies promoting the localization of new energy vehicles and semiconductor equipment all contribute to the demand for high-precision magnetic encoders. Simultaneously, increasingly stringent requirements from enterprises for safe, reliable, and high-precision industrial equipment are pushing TMR magnetic encoders towards higher precision, higher reliability, and greater intelligence.

This report is a detailed and comprehensive analysis for global TMR Magnetic Encoder Chips market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global TMR Magnetic Encoder Chips market size and forecasts, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global TMR Magnetic Encoder Chips market size and forecasts by region and country,

in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global TMR Magnetic Encoder Chips market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global TMR Magnetic Encoder Chips market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Pcs), and ASP (US\$/Pcs), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for TMR Magnetic Encoder Chips

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global TMR Magnetic Encoder Chips market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Murata Manufacturing, AKM, Allegro Microsystems, iC-Haus, CONNTEK, MultiDimension Technology, Posital, Littelfuse, NVE Corporation, Sensitec GmbH, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

TMR Magnetic Encoder Chips market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Absolute

Incremental

Market segment by Measurement Method

Rotary

Linear

Market segment by Angle Measurement Accuracy

±0.05°-±0.1°

±0.1°-±1°

±1°

Market segment by Application

Robotics

Industrial Automation

Automotive Electronics

Medical Equipment

Others

Major players covered

Murata Manufacturing

AKM

Allegro MicroSystems

iC-Haus

CONNTEK

MultiDimension Technology

Posital

Littelfuse

NVE Corporation

Sensitec GmbH

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe TMR Magnetic Encoder Chips product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of TMR Magnetic Encoder Chips, with price, sales quantity, revenue, and global market share of TMR Magnetic

Encoder Chips from 2021 to 2026.

Chapter 3, the TMR Magnetic Encoder Chips competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the TMR Magnetic Encoder Chips breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and TMR Magnetic Encoder Chips market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of TMR Magnetic Encoder Chips.

Chapter 14 and 15, to describe TMR Magnetic Encoder Chips sales channel, distributors, customers, research findings and conclusion.

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