

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

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## Abstracts

The global TMR Magnetic Encoder Chips market size is expected to reach \$ 147 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

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, I<sup>2</sup>C, 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 studies the global TMR Magnetic Encoder Chips production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global TMR Magnetic Encoder Chips total production and demand, 2021-2032, (Million Pcs)

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

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

Global TMR Magnetic Encoder Chips consumption by region & country, CAGR,

2021-2032 & (Million Pcs)

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

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

Global TMR Magnetic Encoder Chips production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

Global TMR Magnetic Encoder Chips production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Pcs)

This report profiles key players in the global TMR Magnetic Encoder Chips 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World TMR Magnetic Encoder Chips market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Pcs) and average price (US\$/Pcs) 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 TMR Magnetic Encoder Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global TMR Magnetic Encoder Chips Market, Segmentation by Type:

Absolute

Incremental

Global TMR Magnetic Encoder Chips Market, Segmentation by Measurement Method:

Rotary

Linear

Global TMR Magnetic Encoder Chips Market, Segmentation by Angle Measurement Accuracy:

±0.05°-±0.1°

±0.1°-±1°

±1°

Global TMR Magnetic Encoder Chips Market, Segmentation by Application:

Robotics

Industrial Automation

Automotive Electronics

Medical Equipment

Others

#### Companies Profiled:

Murata Manufacturing

AKM

Allegro MicroSystems

iC-Haus

CONNTEK

MultiDimension Technology

Posital

Littelfuse

NVE Corporation

Sensitec GmbH

#### Key Questions Answered:

1. How big is the global TMR Magnetic Encoder Chips market?
2. What is the demand of the global TMR Magnetic Encoder Chips market?
3. What is the year over year growth of the global TMR Magnetic Encoder Chips market?
4. What is the production and production value of the global TMR Magnetic Encoder Chips market?

5. Who are the key producers in the global TMR Magnetic Encoder Chips market?
6. What are the growth factors driving the market demand?

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