

Global TMR Magnetic Encoders Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global TMR Magnetic Encoders market size is expected to reach \$ 156 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

A TMR magnetic encoder is a high-precision device for detecting position, angle, and velocity, based on Tunneling Magnetoresistance (TMR) technology. Its core principle involves utilizing TMR magnetic sensors to detect changes in magnetic fields generated by permanent magnets; signal processing circuitry then converts this magnetic field information into output data regarding angle, position, or rotational speed, thereby enabling the precise measurement of rotational or linear motion. Compared to traditional magnetic sensing technologies?such as Hall effect, AMR, and GMR?TMR technology offers superior magnetic field sensitivity, lower power consumption, a better signal-to-noise ratio, and enhanced temperature stability, thereby enabling position detection with higher resolution and greater precision.

In 2025, global sales volume for TMR magnetic encoders is projected to reach 9 million units, with a production capacity of approximately 13 million units. The average selling price is estimated at \$11.50 per unit, with an average gross margin ranging from 30% to 40%.

The upstream segment of the TMR magnetic encoder industry chain primarily comprises suppliers of TMR magnetoresistive sensor chips, magnetic materials (such as NdFeB magnetic rings and magnetic steel), semiconductor wafers, PCBs, and electronic components (such as capacitors and resistors), as well as providers of packaging, testing, and precision machining equipment. The midstream segment consists of enterprises engaged in the R&D and manufacturing of TMR magnetic encoders; by integrating TMR sensor chips, magnetic rings, signal processing circuits,

microcontrollers, and communication interfaces, these companies produce both incremental and absolute magnetic encoder products. The downstream segment features extensive applications across various fields, including industrial robots, collaborative robots (cobots), humanoid robots, servo motors, AGVs/AMRs (autonomous mobile robots), CNC machine tools, semiconductor manufacturing equipment, automotive electronics, medical devices, and industrial automation systems.

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 studies the global TMR Magnetic Encoders production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global TMR Magnetic Encoders 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, TDK, Posital, Littelfuse, NVE Corporation, 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 Encoders 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 TMR Magnetic Encoders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global TMR Magnetic Encoders Market, Segmentation by Type:

Absolute

Incremental

Global TMR Magnetic Encoders Market, Segmentation by Measurement Method:

Rotary

Linear

Global TMR Magnetic Encoders Market, Segmentation by Angle Measurement Accuracy:

±0.05°-±0.1°

±0.1°-±1°

±1°

Global TMR Magnetic Encoders Market, Segmentation by Application:

Robotics

Industrial Automation

Automotive Electronics

Medical Equipment

Others

Companies Profiled:

Murata Manufacturing

AKM

Allegro MicroSystems

iC-Haus

CONNTEK

MultiDimension Technology

TDK

Posital

Littelfuse

NVE Corporation

Sensitec GmbH

Key Questions Answered:

1. How big is the global TMR Magnetic Encoders market?
2. What is the demand of the global TMR Magnetic Encoders market?
3. What is the year over year growth of the global TMR Magnetic Encoders market?

4. What is the production and production value of the global TMR Magnetic Encoders market?
5. Who are the key producers in the global TMR Magnetic Encoders market?
6. What are the growth factors driving the market demand?

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