

Global TMR Magnetic Encoder Chips Market Growth 2026-2032

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Abstracts

The global TMR Magnetic Encoder Chips market size is predicted to grow from US\$ 95.38 million in 2025 to US\$ 142 million in 2032; it is expected to grow at a CAGR of 6.0% from 2026 to 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, 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.

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

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

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

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

Segmentation by Type:

Absolute

Incremental

Segmentation by Measurement Method:

Rotary

Linear

Segmentation by Angle Measurement Accuracy:

±0.05°-±0.1°

±0.1°-±1°

±1°

Segmentation by Application:

Robotics

Industrial Automation

Automotive Electronics

Medical Equipment

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.

Murata Manufacturing

AKM

Allegro MicroSystems

iC-Haus

CONNTEK

MultiDimension Technology

Posital

Littelfuse

NVE Corporation

Sensitec GmbH

Key Questions Addressed in this Report

What is the 10-year outlook for the global TMR Magnetic Encoder Chips market?

What factors are driving TMR Magnetic Encoder Chips market growth, globally and by region?

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

How do TMR Magnetic Encoder Chips market opportunities vary by end market size?

How does TMR Magnetic Encoder Chips break out by Type, by Application?

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