

Global Frameless Permanent Magnet Synchronous Torque Motor Market Growth 2026-2032

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Abstracts

The global Frameless Permanent Magnet Synchronous Torque Motor market size is predicted to grow from US\$ 778 million in 2025 to US\$ 1567 million in 2032; it is expected to grow at a CAGR of 10.6% from 2026 to 2032.

A frameless permanent magnet synchronous torque motor is a permanent magnet synchronous motor that discards the mechanical frame structure such as the traditional motor housing, bearings, shaft, and end caps, consisting only of two core components: the stator and the rotor, designed to liberate machine structural design from the constraints of the motor housing by using the machine's own bearings to support the rotor and achieving seamless integration of the motor into the mechanical structure. This architecture realizes direct coupling and zero-backlash transmission by directly mounting the permanent magnet rotor onto the load shaft and tightly fitting the stator, which surrounds steel laminations and copper windings, into the machine housing, thereby eliminating intermediate links in traditional transmission and significantly improving system bandwidth, stiffness, and reducing wind friction losses. The frameless design dramatically reduces motor volume and weight compared to traditional motors, not only optimizing machine space occupation and achieving higher torque density per unit volume but also reducing maintenance requirements by minimizing wearable components and delivering noticeable silence due to the altered transmission method. With its high power density, extremely high dynamic response, and millisecond-level control precision, this type of motor serves as a direct drive power source capable of driving loads directly without relying on reduction mechanisms such as belts, gearboxes, or screws, meeting precision transmission needs with stringent requirements for dynamic performance and space utilization. In 2025, global Frameless Permanent Magnet Synchronous Torque Motor production reached approximately 2.2 million units with an average global market price of around US\$350 per unit.

Future frameless permanent magnet synchronous torque motors will develop towards high technical barriers in magnetic circuit and process design, requiring enterprises to break through technical challenges of low-voltage high-power output to enhance product added value, thereby securing higher revenue and profits in fierce market competition. With the large-scale commercialization of emerging fields such as downstream robots, the market demand for frameless torque motors will continue to grow, driving enterprises to expand capacity and optimize industrial chain layout to improve profitability through economies of scale. Enterprises will increase R&D investment in core components such as stators and rotors, utilizing their direct coupling and backlash-free characteristics to improve system bandwidth and stiffness, seizing high-end market share with high power density and quietness advantages, and propelling the industry towards high-value transformation. Additionally, benefiting from policy support for efficient drive systems such as the 'Development Plan for Energy-saving and New Energy Vehicle Industry,' enterprises are expected to enhance brand influence in import substitution and technological innovation, achieving sustainable profit growth.

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

This Insight Report provides a comprehensive analysis of the global Frameless Permanent Magnet Synchronous Torque Motor 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 Frameless Permanent Magnet Synchronous Torque Motor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Frameless Permanent Magnet Synchronous Torque Motor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Frameless Permanent Magnet Synchronous Torque Motor 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 Frameless Permanent Magnet Synchronous Torque Motor.

This report presents a comprehensive overview, market shares, and growth opportunities of Frameless Permanent Magnet Synchronous Torque Motor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Inner Rotor Type

Outer Rotor Type

Segmentation by Peak Torque:

Below 100Nm

Above 100Nm

Segmentation by Cooling Method:

Air-cooled

Liquid-cooled

Segmentation by Application:

Collaborative Robots

Humanoid Robots

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.

Kollmorgen

Aerotech

Wittenstein

Parker

Sensata

Maxon Motor

Allied Motion

TQ Robodrive

Magnetic Innovations

Tecnotion

Moog

Nidec

Akribis

Celera Motion

Shenzhen Mosrac Motor

Kinco Automation (Shanghai)

Guangzhou Haozhi Industrial

Chengdu Weijing Motor

Wolong Electric Group

China Leadshine Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Frameless Permanent Magnet Synchronous Torque Motor market?

What factors are driving Frameless Permanent Magnet Synchronous Torque Motor market growth, globally and by region?

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

How do Frameless Permanent Magnet Synchronous Torque Motor market opportunities vary by end market size?

How does Frameless Permanent Magnet Synchronous Torque Motor break out by Type, by Application?

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