

Global Frameless Permanent Magnet Synchronous Torque Motor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GB5D73AD5F7CEN.html>

Date: June 2026

Pages: 150

Price: US\$ 4,480.00 (Single User License)

ID: GB5D73AD5F7CEN

Abstracts

The global Frameless Permanent Magnet Synchronous Torque Motor market size is expected to reach \$ 1594 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

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.

This report studies the global Frameless Permanent Magnet Synchronous Torque Motor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Frameless Permanent Magnet Synchronous Torque Motor 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 Frameless Permanent Magnet Synchronous Torque Motor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Frameless Permanent Magnet Synchronous Torque Motor total production and demand, 2021-2032, (K Units)

Global Frameless Permanent Magnet Synchronous Torque Motor total production value, 2021-2032, (USD Million)

Global Frameless Permanent Magnet Synchronous Torque Motor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Frameless Permanent Magnet Synchronous Torque Motor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Frameless Permanent Magnet Synchronous Torque Motor domestic production, consumption, key domestic manufacturers and share

Global Frameless Permanent Magnet Synchronous Torque Motor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Frameless Permanent Magnet Synchronous Torque Motor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Frameless Permanent Magnet Synchronous Torque Motor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Frameless Permanent Magnet Synchronous Torque Motor 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 Kollmorgen, Aerotech, Wittenstein, Parker, Sensata, Maxon Motor, Allied Motion, TQ Robodrive, Magnetic Innovations, Tecnotion, 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 Frameless Permanent Magnet Synchronous Torque Motor 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 Frameless Permanent Magnet Synchronous Torque Motor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Frameless Permanent Magnet Synchronous Torque Motor Market,
Segmentation by Type:

Inner Rotor Type

Outer Rotor Type

Global Frameless Permanent Magnet Synchronous Torque Motor Market,
Segmentation by Peak Torque:

Below 100Nm

Above 100Nm

Global Frameless Permanent Magnet Synchronous Torque Motor Market,
Segmentation by Cooling Method:

Air-cooled

Liquid-cooled

Global Frameless Permanent Magnet Synchronous Torque Motor Market,
Segmentation by Application:

Collaborative Robots

Humanoid Robots

Medical Equipment

Others

Companies Profiled:

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 Answered:

1. How big is the global Frameless Permanent Magnet Synchronous Torque Motor market?
2. What is the demand of the global Frameless Permanent Magnet Synchronous Torque Motor market?
3. What is the year over year growth of the global Frameless Permanent Magnet Synchronous Torque Motor market?
4. What is the production and production value of the global Frameless Permanent Magnet Synchronous Torque Motor market?
5. Who are the key producers in the global Frameless Permanent Magnet Synchronous Torque Motor market?
6. What are the growth factors driving the market demand?

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