

Global Frameless Permanent Magnet Synchronous Torque Motor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Frameless Permanent Magnet Synchronous Torque Motor market size was valued at US\$ 818 million in 2025 and is forecast to a readjusted size of US\$ 1594 million by 2032 with a CAGR of 10.0% during review period.

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 is a detailed and comprehensive analysis for global Frameless Permanent Magnet Synchronous Torque Motor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Frameless Permanent Magnet Synchronous Torque Motor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Frameless Permanent Magnet Synchronous Torque Motor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Frameless Permanent Magnet Synchronous Torque Motor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Frameless Permanent Magnet Synchronous Torque Motor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Frameless Permanent Magnet Synchronous Torque Motor

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Frameless Permanent Magnet Synchronous Torque Motor market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Frameless Permanent Magnet Synchronous Torque Motor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Inner Rotor Type

Outer Rotor Type

Market segment by Peak Torque

Below 100Nm

Above 100Nm

Market segment by Cooling Method

Air-cooled

Liquid-cooled

Market segment by Application

Collaborative Robots

Humanoid Robots

Medical Equipment

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Frameless Permanent Magnet Synchronous Torque Motor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Frameless Permanent Magnet Synchronous Torque Motor, with price, sales quantity, revenue, and global market share of Frameless Permanent Magnet Synchronous Torque Motor from 2021 to 2026.

Chapter 3, the Frameless Permanent Magnet Synchronous Torque Motor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Frameless Permanent Magnet Synchronous Torque Motor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Frameless Permanent Magnet Synchronous Torque Motor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Frameless Permanent Magnet Synchronous Torque Motor.

Chapter 14 and 15, to describe Frameless Permanent Magnet Synchronous Torque Motor sales channel, distributors, customers, research findings and conclusion.

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