

# Global Frameless Permanent Magnet 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 Torque Motor market size was valued at US\$ 973 million in 2025 and is forecast to a readjusted size of US\$ 4512 million by 2032 with a CAGR of 24.4% during review period.

In 2025, the global average price of a frameless permanent magnet torque motor was \$350, with annual sales of approximately 2.7 million units. This type of motor is a direct-drive torque motor that utilizes a toroidal coil and radially distributed permanent magnet structure. Eliminating the traditional frame structure with a base and bearing supports, it is integrated directly into the user's mechanical system, offering high torque density, zero transmission backlash, extremely low moment of inertia, and high dynamic response. Its toroidal structure ensures a large hollow channel while also achieving greater torque uniformity and low cogging. It is ideally suited for applications requiring high-precision positioning and smooth torque output, such as satellite attitude control systems, aerospace servos, semiconductor wafer handling, medical imaging equipment, and advanced robotic joints. With increasing demand for high-performance direct-drive technology in precision equipment, aerospace exploration, and the new energy industry, Frameless permanent magnet torque motors are becoming a key growth area in the drive sector.

The future development of the Frameless Permanent Magnet Torque Motor will deeply benefit from the commercial landing of the humanoid robot industry. With characteristics such as small volume, large torque, and high power density, this motor fits highly with joint actuators and is regarded as the core power source for flexible movement and precise control of robots in the future. As downstream industries gradually move

towards large-scale commercialization, market demand shows a significant growth trend, which will drive the continuous expansion of the industry market space. In terms of technical barriers, since high power needs to be output in a low-voltage power supply environment, magnetic circuit design and process design will become the key to enterprise competition, and enterprises mastering core technologies will obtain higher added value. In addition, the direct drive design utilizing the machine's own bearings to support the rotor not only optimizes structural compactness but also effectively improves overall machine efficiency by reducing wind friction losses and decreasing mechanical component maintenance, thereby bringing long-term stable profit growth to enterprises.

This report is a detailed and comprehensive analysis for global Frameless Permanent Magnet 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 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 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 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 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 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 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 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 Frame Size

25mm

50mm

60mm

Others

#### Market segment by Magnet Mounting Method

SPM Motor

IPM Moto

#### 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 Torque Motor product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Frameless Permanent Magnet 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 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 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 Torque Motor.

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

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