

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

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Abstracts

The global Frameless Permanent Magnet Torque Motor market size is expected to reach \$ 4512 million by 2032, rising at a market growth of 24.4% CAGR during the forecast period (2026-2032).

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 studies the global Frameless Permanent Magnet 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 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 Torque Motor that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

Global Frameless Permanent Magnet 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 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 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 Torque Motor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Inner Rotor Type

Outer Rotor Type

Global Frameless Permanent Magnet Torque Motor Market, Segmentation by Frame Size:

25mm

50mm

60mm

Others

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

SPM Motor

IPM Moto

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

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