

Global Frameless Permanent Magnet Torque Motor Market Growth 2026-2032

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Abstracts

The global Frameless Permanent Magnet Torque Motor market size is predicted to grow from US\$ 925 million in 2025 to US\$ 4614 million in 2032; it is expected to grow at a CAGR of 25.9% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Frameless Permanent Magnet Torque Motor Industry Forecast" looks at past sales and reviews total world Frameless Permanent Magnet Torque Motor sales in 2025, providing a comprehensive analysis by region and market sector of projected Frameless Permanent Magnet Torque Motor sales for 2026 through 2032. With Frameless Permanent Magnet 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 Torque Motor industry.

This Insight Report provides a comprehensive analysis of the global Frameless Permanent Magnet 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 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 Torque Motor market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of Frameless Permanent Magnet 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 Frame Size:

25mm

50mm

60mm

Others

Segmentation by Magnet Mounting Method:

SPM Motor

IPM Moto

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 Torque Motor market?

What factors are driving Frameless Permanent Magnet 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 Torque Motor market opportunities vary by end market size?

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

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