

Global Toroid Shaped Frameless Torque Motor Market Growth 2026-2032

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Abstracts

The global Toroid Shaped Frameless Torque Motor market size is predicted to grow from US\$ 778 million in 2025 to US\$ 1567 million in 2032; it is expected to grow at a CAGR of 10.6% from 2026 to 2032.

In 2025, global Toroid Shaped Frameless Torque Motor production reached approximately 2 million units with an average global market price of around US\$350 per unit. 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, TFMs are becoming a key growth area in the drive sector.

The future development trends of toroid shaped frameless torque motors, from the perspective of corporate revenue and profit, have clearly pointed to the core track of embodied intelligence robotics. During its 2025 earnings call, Weiguang Holdings disclosed that the robotic joint modules developed by its wholly-owned subsidiary have entered the small-batch delivery stage, and the products have passed verification by individual complete machine manufacturers. These modules integrate the toroid shaped frameless torque motor with components such as encoders. The company explicitly

stated it would accelerate the development and industrialization of core robotic components to cultivate new productive forces. Jiangsu Leili confirmed on its investor interaction platform that its self-developed frameless torque motors have been integrated with planetary gearboxes and encoders to launch intelligent rotary joint module products, which have already achieved small-batch shipments. During its third-quarter 2025 earnings call, Kinco Automation disclosed that the main drivers for the growth of its robotics business are the rapid development of new directions such as industrial robots, humanoid robots, and collaborative robots, with sales of frameless torque motors increasing significantly. On the policy front, the Science, Technology and Economy Commission of Shanghai Pudong New Area issued a special application notice, explicitly providing support for enterprises undertaking the industrialization of frameless torque motors for humanoid robots, with an amount not exceeding a certain percentage of the sales contract value from the first batch. The maximum cumulative support for a single enterprise is clearly defined, and no duplicate rewards are given for similar products. This local incentive policy indicates that the government is guiding enterprises to push toroid shaped frameless torque motors from the prototype trial stage toward scaled supply. In summary, the major trends in the toroid shaped frameless torque motor industry are as follows: the demand driver is shifting entirely from traditional industrial automation to humanoid robot joint applications; the profit model is upgrading from single motor sales to system solutions for joint modules integrating encoders and reducers; and a company's revenue growth and profit margins will depend on its progress in industrializing core areas such as magnetic circuit optimization design, process consistency control, and module integration capabilities.

LP Information, Inc. (LPI) ' newest research report, the "Toroid Shaped Frameless Torque Motor Industry Forecast" looks at past sales and reviews total world Toroid Shaped Frameless Torque Motor sales in 2025, providing a comprehensive analysis by region and market sector of projected Toroid Shaped Frameless Torque Motor sales for 2026 through 2032. With Toroid Shaped Frameless Torque Motor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Toroid Shaped Frameless Torque Motor industry.

This Insight Report provides a comprehensive analysis of the global Toroid Shaped Frameless 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 Toroid Shaped Frameless Torque Motor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Toroid Shaped Frameless Torque Motor

market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of Toroid Shaped Frameless 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 Cooling Method:

Water-cooled

Liquid-cooled

Segmentation by Application:

- Robot Joints
- Semiconductor Equipment
- Flight Control Systems
- Industrial Automation
- 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 Toroid Shaped Frameless Torque Motor market?

What factors are driving Toroid Shaped Frameless Torque Motor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Toroid Shaped Frameless Torque Motor market opportunities vary by end market size?

How does Toroid Shaped Frameless Torque Motor break out by Type, by Application?

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