

Global Toroid Shaped Frameless 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 Toroid Shaped Frameless 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.

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.

This report is a detailed and comprehensive analysis for global Toroid Shaped Frameless 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 Toroid Shaped Frameless Torque Motor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Toroid Shaped Frameless 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 Toroid Shaped Frameless 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 Toroid Shaped Frameless 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 Toroid Shaped Frameless 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 Toroid Shaped Frameless 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

Toroid Shaped Frameless 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 Cooling Method

Water-cooled

Liquid-cooled

Market segment by Application

Robot Joints

Semiconductor Equipment

Flight Control Systems

Industrial Automation

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 Toroid Shaped Frameless Torque Motor product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Toroid Shaped Frameless 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 Toroid Shaped Frameless 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 Toroid Shaped Frameless Torque Motor.

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

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