

Global Brushless 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 Brushless 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 Brushless 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 brushless 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, Brushless frameless torque motors are becoming a key growth area in the drive sector.

The future development trends of brushless frameless torque motors have become clearly visible from the perspective of corporate revenue and profit, with their core growth closely following the scaling pace of the robotics industry. During its third-quarter 2025 earnings call, Kinco Automation disclosed that thanks to the rapid development of industrial and humanoid robots, sales of its brushless frameless torque motors grew by

over 180% year-on-year in the first three quarters, directly pushing the revenue share of its robotics business to exceed half for the first time, making it a key engine driving both top-line revenue and profit growth. Leadshine Technology, in its 2025 board of directors' work report, also explicitly stated that its brushless frameless torque motor business has entered a phase of explosive growth, with annual deliveries exceeding 120,000 units. The company has successfully entered the supply chains of the vast majority of mainstream humanoid robot manufacturers in China and has started capacity construction for an annual output of two million units, anticipating this business to become a significant profit growth driver. Meanwhile, Weiguang Holdings revealed during its 2025 earnings call that the brushless frameless torque motors and joint modules developed by its subsidiary have entered small-batch delivery and are accelerating their commercialization process. Xinzhi Group also disclosed in its annual report that its brushless frameless torque motors for humanoid robots have been delivered in small batches to leading customers for testing, and it has established a dedicated subsidiary to drive industrialization. From the perspective of supply chain equipment, Tanaka Seiki stated during an investor relations event that it has achieved technological breakthroughs and secured customer orders in the brushless frameless torque motor production line field, indicating that upstream equipment sectors are upgrading in tandem with motor demand. Policy support is also present. The Shanghai Pudong New Area has explicitly introduced special awards for companies undertaking the industrialization of brushless frameless torque motors for humanoid robots, demonstrating that local governments are actively guiding the translation of technological achievements and large-scale development in this area. In summary, the major trends in this industry are as follows: the demand driver is shifting entirely from industrial automation to embodied artificial intelligence; the profit focus is moving from general-purpose motor products to high-density specialized motors and integrated joint modules; and a company's revenue growth and profitability will depend on its breakthroughs and mass production delivery capabilities in core technologies such as magnetic circuit design, process optimization, and system integration.

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

Global Brushless 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 Brushless 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 Brushless 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 Brushless 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 Brushless 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

Brushless 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 Peak Torque

Below 100Nm

Above 100Nm

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

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

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

Chapter 4, the Brushless 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 Brushless 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 Brushless Frameless Torque Motor.

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

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