

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

<https://marketpublishers.com/r/GA690481E991EN.html>

Date: June 2026

Pages: 139

Price: US\$ 4,480.00 (Single User License)

ID: GA690481E991EN

Abstracts

The global Brushless Frameless Torque Motor market size is expected to reach \$ 1594 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

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 studies the global Brushless Frameless Torque Motor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Brushless Frameless 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 Brushless Frameless Torque Motor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Brushless Frameless Torque Motor total production and demand, 2021-2032, (K

Units)

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

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

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

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

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

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

Global Brushless Frameless Torque Motor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Brushless Frameless 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 Brushless Frameless 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 Brushless Frameless Torque Motor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Brushless Frameless Torque Motor Market, Segmentation by Type:

Inner Rotor Type

Outer Rotor Type

Global Brushless Frameless Torque Motor Market, Segmentation by Peak Torque:

Below 100Nm

Above 100Nm

Global Brushless Frameless Torque Motor Market, Segmentation by Cooling Method:

Water-cooled

Liquid-cooled

Global Brushless Frameless Torque Motor Market, Segmentation by Application:

Robot Joints

Semiconductor Equipment

Flight Control Systems

Industrial Automation

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

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