

# Global DC Brushless Coreless Motor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global DC Brushless Coreless Motor market size is expected to reach \$ 1760 million by 2032, rising at a market growth of 24.4% CAGR during the forecast period (2026-2032).

A DC Brushless Coreless Motor eliminates the ferromagnetic iron core from the rotor, replacing it with a self-supporting cup-shaped copper winding, while employing permanent magnets on the rotor and electronically commutated stator windings. This construction removes cogging torque and rotor eddy current losses, drastically reduces mechanical inertia, and suppresses electrical arcing along with brush wear by eliminating physical brushes. The motor achieves linear speed-torque characteristics with an exceptionally low mechanical time constant, decoupling excitation from armature reaction through electronic commutation. Its electromechanical conversion process enables sustained high efficiency across a wide speed range without brush-related maintenance, while providing precise speed control without parasitic magnetic drag. In 2025, global DC Brushless Coreless Motor production reached approximately 1677 k units with an average global market price of around US\$220 per unit.

The most definitive growth engine for the DC Brushless Coreless Motor industry in the future is the humanoid robotics sector, a trend that has been confirmed by official disclosures from multiple listed companies. According to Moons' Electric's reply to the annual report inquiry letter, its brushless motor business achieved 31% year-on-year revenue growth in 2024, within which robotic coreless motor sales saw particularly significant year-on-year growth. The company has submitted a full set of technical solutions and prototypes for control motor modules used in palm modules and finger modules to a leading customer in the humanoid robotics field. Moons' Electric has also planned to add up to two million units of production capacity for integrated modules

combining brushless motors and reducers, demonstrating a clear forecast of downstream demand. In terms of competitive landscape, although foreign companies such as Maxon from Switzerland and Faulhaber from Germany have long dominated the high-end market thanks to decades of accumulated process advantages, driven by policies promoting supply chain self-reliance, Chinese companies are shifting from relying solely on price advantages to directly benchmarking core metrics such as dynamic response and lifespan consistency against international competitors. Consequently, corporate profit models are transitioning from the sale of individual motors to highly integrated modular solutions. Moons' Electric has clearly laid out projects for integrated modules combining brushless motors and reducers. This model of deep integration with customer R&D has effectively raised product technological barriers and customer stickiness, while the significant growth in sales of high-margin related products in 2024 has also helped maintain its gross profit margin at a stable level between 35% and 36%.

This report studies the global DC Brushless Coreless Motor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global DC Brushless Coreless Motor total production and demand, 2021-2032, (K Units)

Global DC Brushless Coreless Motor total production value, 2021-2032, (USD Million)

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

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

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

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

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

Global DC Brushless Coreless Motor production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global DC Brushless Coreless 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 Faulhaber, Portescap, Maxon Motor, C.I. TAKIRON, Adamant Namiki Precision Jewel, Citizen Chiba Precision, Shenzhen Constarmotor, Jiangsu Leili, Shenzhen Topband, Shanghai MOONS' Electric, 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 DC Brushless Coreless 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 DC Brushless Coreless Motor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global DC Brushless Coreless Motor Market, Segmentation by Type:

?4–6mm

?6–8 mm

?8–10 mm

?10–12 mm

?12–16 mm

Global DC Brushless Coreless Motor Market, Segmentation by Motor Length:

?10 mm

10–20 mm

20–35 mm

?35 mm

Global DC Brushless Coreless Motor Market, Segmentation by Output Speed:

?5,000 rpm

5,000–15,000 rpm

15,000–40,000 rpm

?40,000 rpm

Global DC Brushless Coreless Motor Market, Segmentation by Application:

Aerospace

Medical Equipment

Industrial Automation and Robotics

Others

#### Companies Profiled:

Faulhaber

Portescap

Maxon Motor

C.I. TAKIRON

Adamant Namiki Precision Jewel

Citizen Chiba Precision

Shenzhen Constarmotor

Jiangsu Leili

Shenzhen Topband

Shanghai MOONS' Electric

Shenzhen Zhaowei Machinery & Electronics

Shenzhen Assun Motor

Shenzhen WKXMOTOR

Shenzhen Sinbad Motor

## Dongguan Zhonghanxin Motor

### Key Questions Answered:

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

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