

Brushless DC Motor Market by Type (Inner Rotor, Outer Rotor), Speed (10,000 RPM), End-user (Consumer Electronics, Automotive, Manufacturing, Medical Devices) and Region - Global Forecast to 2028

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Abstracts

The global brushless DC motor market is projected to reach USD 17.6 billion by 2028 from an estimated USD 12.1 billion in 2023, at a CAGR of 7.9% during the forecast period. The increasing demand for brushless DC motor is driven by their energy efficiency, low maintenance, and precise control. Industries use them to boost performance and reliability in applications like robotics, electric vehicles, and manufacturing processes. Their compact design and minimal electromagnetic interference make them a preferred choice across various sectors.

“Automotive: The fastest segment of the blower market, by end user.”

Based on end user, the brushless DC motor market has been segmented into consumer electronics, automotive, manufacturing, medical devices, and others. The automotive segment is the fastest segment in the brushless DC motor market is propelled by the automotive industry's continual pursuit of advancements in vehicle electrification and automation. Brushless DC motors play a pivotal role in electric power steering, HVAC systems, and various auxiliary components within modern vehicles. The increasing emphasis on fuel efficiency, reduced emissions, and the integration of advanced technologies in automotive platforms further amplifies the demand for brushless DC motors.

“Outer Rotor segment is expected to emerge as the second-largest segment based on type.”

Based on type, the brushless DC motor market has been segmented into inner rotor and outer rotor. The outer rotor segment is expected to be the second-largest segment. Outer rotor motors offer a larger rotor diameter, resulting in higher torque and efficiency. This makes them suitable for applications that require high starting torque and consistent performance, such as electric fans, blowers, and certain industrial machinery. The outer rotor design's ability to deliver robust performance in various scenarios contributes to its significant growth in the brushless DC motor market.

“2,001 – 10,000 RPM segment is expected to emerge as the largest segment based on speed.”

The brushless DC motor market has been segmented into the 10,000 RPM. The 2,001-10,000 RPM segment is expected to be the largest segment based on speed aligns with the requirements of numerous precision-centric applications. This speed range is well-suited for tasks like high-speed machining, medical equipment, and electric power tools. The demand for increased operational efficiency and performance in these applications has propelled the 2001-10,000 RPM segment to become the largest.

“Asia Pacific is expected to be the fastest region in the brushless DC motor market.”

Asia Pacific is expected to be the fastest region in the brushless DC motor market between 2023–2028, followed by North America. The region's manufacturing prowess, particularly in China and India, is a key driver, propelling the demand for brushless DC motors in diverse applications, from factory automation to electric vehicles. Moreover, the surge in consumer electronics production further amplifies the market growth, emphasizing Asia Pacific's pivotal role in the global brushless DC motor landscape. The region's proactive embrace of renewable energy solutions, including solar pumps, adds another dimension to its dominance in driving the upward trajectory of the brushless DC motor market.

Breakdown of Primaries:

In-depth interviews have been conducted with various key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, to obtain and verify critical qualitative and quantitative information, as well as to assess future market prospects. The distribution of primary interviews is as follows:

By Company Type: Tier 1- 65%, Tier 2- 24%, and Tier 3- 11%

By Designation: C-Level- 30%, Director Levels- 25%, and Others- 45%

By Region: North America- 27%, Europe- 20%, Asia Pacific- 33%, the Middle East & Africa- 8%, and South America-12%

Note: Others include product engineers, product specialists, and engineering leads.

Note: The tiers of the companies are defined on the basis of their total revenues as of 2022. Tier 1: > USD 1 billion, Tier 2: From USD 500 million to USD 1 billion, and Tier 3: The brushless DC motor market is dominated by some major players that have a wide regional presence. The leading players in the market are Ametek Inc. (US), Allied Motion, Inc. (US), NIDEC Corporation (Japan), MinebeaMitsumi Inc. (Japan), and Johnson Electric Holdings Limited (China).

Research Coverage:

The report defines, describes, and forecasts the global brushless DC motor market, by type, speed, end user and region. It also offers a detailed qualitative and quantitative analysis of the market. The report provides a comprehensive review of the major market drivers, restraints, opportunities, and challenges. It also covers various important aspects of the market. These include an analysis of the competitive landscape, market dynamics, market estimates, in terms of value, and future trends in the brushless DC motor market.

Key Benefits of Buying the Report

Analysis of major drivers (reduced expenses associated with the upkeep of brushless DC motors, and surged adoption of energy efficient brushless DC motors worldwide), restraints (high costs of brushless DC motors and requirement of controllers in them), opportunities (transition of global automotive industry towards electric vehicles and capitalizing on emerging markets), challenges (widespread accessibility of substandard and inexpensive brushless DC motors) influencing the brushless DC motor market.

Product Development/ Innovation: Players involved in the brushless DC motor market are investing in research and development activities and are coming up with new products in order to maintain their competitive edge in the market.

Johnson Electric Holdings Limited announced the launch of its ECI-043 brushless DC motor platform in 2022, which aims at high torque low speed applications and delivers a stable torque output with a high level of controllability. This is suited for robotic lawn mower traction, cutter, and autonomous vehicle traction systems.

Market Development: The global brushless DC motor market is experiencing robust development, driven by rising industrialization, infrastructure projects, and environmental consciousness. A surge in demand across varied sectors, including consumer electronics, medical devices, and other fuels market expansion. Technological advancements in brushless DC motor systems, emphasizing energy efficiency and compliance with stringent regulations, further influence on the dynamic growth and advancement of the global brushless DC motor market.

Market Diversification: Nidec Corporation formed a strategic partnership with Designatronics, a developer of high-quality mechanical components in 2021. This partnership would enable Nidec Corporation to extend its distribution capabilities and serve its customers with DC motors and controllers for industrial automation, robotics, medical technology, safety & security, agriculture, marine, food & beverage, biomass/pellet technology, vending and more.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Ametek Inc. (US), Allied Motion, Inc. (US), NIDEC Corporation (Japan), MinebeaMitsumi Inc. (Japan), and Johnson Electric Holdings Limited (China) among others in the brushless DC motor market.

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*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

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