

Brushless DC Motors Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global brushless DC motors market size reached US\$ 5.7 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 5.9 Billion by 2028.

Brushless DC (BLDC) motors, also known as electronically commutated motors (ECMs), are powered by direct current (DC) using an inverter or switching power supply. A closed-loop controller converts the DC electric current into alternating current (AC) to drive these motors. BLDC motors comprise rotors, stators, sensors and permanent magnets that provide high power, speed and electronic control as compared to their brushed counterparts. These motors are efficient and durable, and generate less noise and require low energy while offering maximum rotational force (torque).

Consequently, they are extensively employed in the industrial machinery, automotive, electronics, aviation and healthcare industries.

The rising trend of industrial automation and the growing popularity of miniature electronic devices are among the key factors bolstering the global BLDC motors market growth. Moreover, the increasing focus on minimizing the environmental footprint is escalating the adoption of hybrid electric vehicles (HEVs), which, in turn, is influencing the demand for BLDC motors positively. Apart from this, the escalating sales of vehicles with advanced features, such as motorized seats, adjustable mirrors and sunroof systems, is bolstering the growth of the market. Furthermore, the rising trend of high-tech electronics, such as drones and mobility scooters, and the introduction of sensor-less BLDC motors, are also contributing to the market growth. Besides this, the spread of the coronavirus disease (COVID-19) and the increasing need for hospital care services have escalated the demand for BLDC motors worldwide for manufacturing wheelchairs, respirators, ventilators, hospital beds, blood analyzers, air filtration devices and personal protective equipment (PPE).

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global brushless DC motors market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product type, power rating and end use industry.

Breakup by Product Type:

Inner Rotor Brushless DC Motors

Outer Rotor Brushless DC Motors

Breakup by Power Rating:

0 -750 Watts

750 Watts to 3 kW

3 kW - 75 kW

Above 75 kW

Breakup by End Use Industry:

Industrial Machinery

Automotive

Consumer Electronics

Healthcare

Aerospace and Defense

Others

Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being ABB Ltd., Allied Motion Technologies Inc., AMETEK Inc., Arc Systems Inc., Buhler Motor GmbH, The Faulhaber Group, Johnson Electric Holdings Limited, Maxon Motor AG, MinebeaMitsumi, Moog Inc., Nidec Corporation and Oriental Motor Co. Ltd.

Key Questions Answered in This Report

1. What are the global brushless DC motors market drivers?
2. What are the key industry trends in the global brushless DC motors market?
3. What is the impact of COVID-19 on the global brushless DC motors market?
4. What is the global brushless DC motors market breakup by power rating?
5. What is the global brushless DC motors market breakup by end use industry?
6. What are the major regions in the global brushless DC motors market?
7. Who are the key companies/players in the global brushless DC motors market?

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