

Brushless DC Motors Market by Rotor Type (Inner Rotor Brushless DC Motors and Outer Rotor Brushless DC Motors), Power Range (0-750 W, 750 W to 3 KW, and More than 3 KW), and End User (Industrial Machinery, Automotive, Healthcare, HVAC Industry, and Others): Global Opportunity Analysis and Industry Forecast, 2021–2028

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Abstracts

The global brushless DC motor market size is expected to reach \$68,836.2 million in 2028, from \$35,158.6 million in 2020, growing at a CAGR of 8.5% from 2021 to 2028. Brushless DC motor is a synchronous DC motor powered by a DC power source. These motors are highly efficient in generating a large amount of torque over a wide speed range. They have permanent magnets on the outside and a spinning armature on the inside. The permanent magnets rotate around the fixed armature, which is called the rotor. The rotor moves 180-degrees when an electric current is connected to the armature. The brushes act as the rotor spins, which contacts the stator, allowing the rotor to spin to a full of 360-degrees by flipping the magnetic field.

The features of brushless DC motors such as enhanced speed torque, high efficiency, reliability, durability, and outstanding controllability boost its adoption in many industrial applications. Rise in demand for electric vehicles from developing countries, increase in demand for HVAC applications, and surge in robotics technology are some of the key factors that fuel the market growth. However, factors such as slow-down in the automotive industry and high initial cost of investment and complexity restrain the market growth. Furthermore, growth in industrial robotics technology and transition of global automotive industry toward electric vehicles are expected to offer lucrative growth opportunities for the brushless DC motors market during the forecast period.

The global brushless DC motor market is segmented on the basis of rotor type, power range, end user, and region. By rotor type, it is bifurcated into inner rotor brushless DC motors and outer rotor brushless DC motors. The inner rotor brushless DC motors segment is anticipated to dominate the global brushless DC motor market in the future, owing to its adoption in industrial robots due to rising trend toward automation and technical improvements in industrial robots. By power range, the market is divided into 0-750 W, 750 W to 3 KW, and more than 3 KW. 0-750 W segment is anticipated to dominate the market, owing to large adoption of brushless DC motors in automotive, healthcare, and others sectors. By end user, it is divided into industrial machinery, automotive, healthcare, HVAC industry, and others. Others include consumer electronic products, automation, aerospace & defense, energy, and robotics. The industrial machinery segment is projected to dominate the global brushless DC motor market during the forecast period.

The global brushless DC motor market is analyzed across four geographical regions, which include North America (the U.S., Canada, and Mexico), Europe (Germany, France, the UK, Italy, Spain, and the Rest of Europe), Asia-Pacific (Japan, China, South Korea, India, Australia, and the Rest of Asia-Pacific), and LAMEA (Brazil, Argentina, GCC, South Africa, and Rest of LAMEA). Asia-Pacific is expected to hold the largest market share during the forecast period and is expected to grow at a significant CAGR.

COMPETITION ANALYSIS

The key players operating in the global brushless DC motor market include Allied Motion Technologies Inc., AMETEK Inc., Arc Systems Inc., Buhler Motor GmbH, Faulhaber Group, Johnson Electric Holdings Limited, Maxon motors AG, MinebeaMitsumi Inc., Nidec Corporation, and Oriental Motor Co. Ltd.

KEY BENEFITS FOR STAKEHOLDERS

The report provides an extensive analysis of the current trends and future estimations.

Extensive analysis of global brushless DC motors market is conducted by following key product positioning and monitoring of the top competitors within the market framework.

A comprehensive analysis of all the regions is provided to

determine the prevailing opportunities.

The global brushless DC motors market forecast analysis from 2021 to 2028 is included in the report.

The key market players within the global brushless DC motors market are profiled in this report and their strategies are analyzed thoroughly, which help understand the competitive outlook of the global brushless DC motors market.

GLOBAL BRUSHLESS DC MOTORS MARKET SEGMENTS

By Rotor Type

Inner Rotor Brushless DC Motors

Outer Rotor Brushless DC Motors

By Power Range

0-750 W

750 W to 3 KW

More than 3 KW

By End User

Industrial Machinery

Automotive

Healthcare

HVAC Industry

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia-Pacific

China

Japan

India

Australia

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

Argentina

GCC

South Africa

Rest of LAMEA

KEY PLAYERS

Allied Motion Technologies Inc.

AMETEK Inc.

Arc Systems Inc

Buhler Motor GmbH

Faulhaber Group

Johnson Electric Holdings Limited

Maxon motors AG

MinebeaMitsumi Inc.

Nidec Corporation

Oriental Motor Co. Ltd.

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