

Global Brushless DC Motor Market Size study, by Rotor (Inner Rotor, Outer Rotor), by Power Output (Less than 750 Watts, 750 Watts to 2.99 kW, 3 kW - 75 kW, Above 75 kW), by Speed (Less than 500 RPM, 501-2,000 RPM, 2,001-10,000 RPM, More than 10,000 RPM), by End-use (Industrial Machinery, Motor Vehicles, HVAC Equipment, Aerospace & Transportation, Household Appliances, Others), and Regional Forecasts 2022-2032.

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Abstracts

The global brushless DC motor market was valued at approximately USD 19.57 Billion in 2023 and is anticipated to witness a compound annual growth rate (CAGR) of 6.8% over the forecast period 2025-2032. Brushless DC (BLDC) motors have revolutionized the motor industry by offering enhanced efficiency, reliability, and compact designs compared to traditional brushed motors. Their high operational efficiency and low maintenance requirements have positioned them as a preferred choice for various applications, including electric vehicles, industrial automation, and consumer electronics.

The increasing adoption of electric vehicles (EVs) globally has driven significant demand for BLDC motors, given their role in vehicle propulsion systems, power steering, and cooling fans. With government policies promoting electric mobility, the EV industry is expected to further fuel market growth. Additionally, advancements in sensorless technology have improved the reliability and precision of these motors, broadening their scope in robotics and automation.

Asia Pacific held the largest market share in 2024, attributed to its dominance in manufacturing electronic components and electric vehicles. The region is expected to maintain its leadership, with countries like China and India experiencing robust growth in automation and renewable energy adoption. Meanwhile, North America is projected to exhibit strong growth due to advancements in aerospace, robotics, and industrial machinery.

Major players in the market, such as ABB Ltd, NIDEC Corporation, and Siemens, continue to innovate with high-performance and energy-efficient motor designs, addressing the growing demand for sustainable and compact solutions.

Major Market Players Included in This Report Are:

ABB Ltd

NIDEC Corporation

Siemens

Johnson Electric Holdings Limited

Ametek Inc.

Allied Motion Technologies, Inc.

WorldWide Electric

Regal Rexnord Corporation

Schneider Electric

TECO Corporation

MinebeaMitsumi Inc.

ORIENTAL MOTOR USA CORP

Mitsubishi Electric Corporation

Baldor Electric Company

Maxon Motor AG

The Detailed Segments and Sub-segments of the Market Are Explained Below:

By Rotor:

Inner Rotor

Outer Rotor

By Power Output:

Less than 750 Watts

750 Watts to 2.99 kW

3 kW - 75 kW

Above 75 kW

By Speed:

Less than 500 RPM

501-2,000 RPM

2,001-10,000 RPM

More than 10,000 RPM

By End Use:

Industrial Machinery

Motor Vehicles

Safety

Comfort

Performance

HVAC Equipment

Aerospace & Transportation

Household Appliances

Others

By Region:

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

Japan

India

South Korea

Australia

Latin America

Brazil

Middle East & Africa

Kingdom of Saudi Arabia (KSA)

UAE

South Africa

Years Considered for the Study:

Historical Year – 2022

Base Year – 2023

Forecast Period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of geographical landscapes with country-level analysis.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approaches.

Analysis of the competitive structure of the market.

Demand-side and supply-side analysis of the market.

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