

Electric DC Motors Market Growth Analysis - Forecast Trends and Outlook (2025-2034)

Market Report | 2025-08-11 | 167 pages | EMR Inc.

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Report description:

The global electric DC motors market attained a value of about USD 30.91 Billion in 2024. The market is further expected to grow at a CAGR of 6.80% during the forecast period of 2025-2034 to reach nearly USD 59.68 Billion by 2034.

Rising Mechanisation in the Industrial Sector to Augment the Market Growth of Electric DC Motors

The global market for electric DC motors is being driven by the deployment of electric DC motors in various end use sectors owing to the adoption of industrial automation. The increasing adoption of 4.0 technologies such as Industrial Internet of Things (IIoT), logistics automation, and robotics, among other technologies, are propelling the market growth of electric DC motors in industrial applications. Furthermore, electric DC motors generate robust market demand from industrial applications that require speed adjustments and low-speed torque.

In addition to this, DC motors are easy to install and have low maintenance costs, which is another factor contributing to the market growth of electric DC motors. The rising innovations in product designs and the constant innovations in technology is transforming the industrial sector towards a more mechanical mode of operations, hence positively influencing the market growth of electric DC motors.

Brushless DC Motors to Hold a Significant Share in the Overall Market Growth of Electric DC Motors

Based on type, the brushless type of DC motors is the fastest revenue-generating motor owing to properties like low noise level, high torque, energy-saving, and enhanced operational efficiency. In addition, brushless DC motors find various applications in domestic use electronic appliances, including hairdryers and vacuum cleaners, which is further accelerating the overall growth of the market. In addition, brushless DC motors find applications in the automotive and electronic industry, hence furthering the overall market growth of electric DC motors.

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Electric DC Motors Industry Segmentation

An electric DC motor can be defined as an electric rotary machine that converts electric energy into mechanical energy and is driven on a direct current to produce mechanical power.

Market Breakup by Type

- Brushed DC Motors
- Brushless DC Motors

Market Breakup by Voltage

- 0-750 Watts
- 750 Watts - 3KW
- 3KW - 75KW
- Above 75KW

Market Breakup by End Use

- Industrial Machinery
- Motor Vehicles
- HVAC Equipment
- Aerospace and Transportation
- Household Appliances
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Deployment of Electric DC Motors in HVAC Equipment to Drive the Market Growth

The growth in the global market for electric DC motors can be attributed to the rising developmental projects in emerging economies where HVAC equipment are installed. Electric DC motors are widely used in heating, ventilation, and air conditioning systems to achieve high efficiency in ventilation and to maximise the life and power of HVAC systems. Owing to a rapid increase in commercial and residential construction projects owing to industrialisation and urbanisation in countries like India and China, the demand for HVAC systems in the Asia Pacific region is driving the market growth of electric DC motors.

Furthermore, with rising pollution levels in the region, government measures advocating the adoption of energy-efficient HVAC systems is further stimulating the market growth of electric DC motors. Moreover, owing to rising concerns regarding depletion of natural resources due to overconsumption of fossil fuels, electric DC motors provide cleaner consumption and aids in cutting down energy costs, which is further bolstering the market growth of electric DC motors.

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Key Industry Players in the Global Electric DC Motors Industry

The report presents a detailed analysis of the following key players in the global electric DC motors market, looking into their capacity, market share, and latest developments like capacity expansions, plant turnabouts and mergers and acquisitions:

- AMETEK, Inc.
- Allied Motion Technologies, Inc.
- ABB Motors and Mechanical Inc.
- Siemens Ltd.
- Johnson Electric Holdings Ltd.
- Others

The comprehensive report looks at the micro and macro aspects of the industry. The EMR report gives an in-depth insight into the market by providing a SWOT analysis as well as an analysis of the Porter's Five Forces Model.

Table of Contents:

- 1 Executive Summary
 - 1.1 Market Size 2024-2025
 - 1.2 Market Growth 2025(F)-2034(F)
 - 1.3 Key Demand Drivers
 - 1.4 Key Players and Competitive Structure
 - 1.5 Industry Best Practices
 - 1.6 Recent Trends and Developments
 - 1.7 Industry Outlook
- 2 Market Overview and Stakeholder Insights
 - 2.1 Market Trends
 - 2.2 Key Verticals
 - 2.3 Key Regions
 - 2.4 Supplier Power
 - 2.5 Buyer Power
 - 2.6 Key Market Opportunities and Risks
 - 2.7 Key Initiatives by Stakeholders
- 3 Economic Summary
 - 3.1 GDP Outlook
 - 3.2 GDP Per Capita Growth
 - 3.3 Inflation Trends
 - 3.4 Democracy Index
 - 3.5 Gross Public Debt Ratios
 - 3.6 Balance of Payment (BoP) Position
 - 3.7 Population Outlook
 - 3.8 Urbanisation Trends
- 4 Country Risk Profiles
 - 4.1 Country Risk
 - 4.2 Business Climate

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- 5 Global Electric DC Motors Market Analysis
 - 5.1 Key Industry Highlights
 - 5.2 Global Electric DC Motors Historical Market (2018-2024)
 - 5.3 Global Electric DC Motors Market Forecast (2025-2034)
 - 5.4 Global Electric DC Motors Market by Type
 - 5.4.1 Brushed DC Motors
 - 5.4.1.1 Historical Trend (2018-2024)
 - 5.4.1.2 Forecast Trend (2025-2034)
 - 5.4.2 Brushless DC Motors
 - 5.4.2.1 Historical Trend (2018-2024)
 - 5.4.2.2 Forecast Trend (2025-2034)
 - 5.5 Global Electric DC Motors Market by Voltage
 - 5.5.1 0-750 Watts
 - 5.5.1.1 Historical Trend (2018-2024)
 - 5.5.1.2 Forecast Trend (2025-2034)
 - 5.5.2 750 Watts - 3KW
 - 5.5.2.1 Historical Trend (2018-2024)
 - 5.5.2.2 Forecast Trend (2025-2034)
 - 5.5.3 3KW - 75KW
 - 5.5.3.1 Historical Trend (2018-2024)
 - 5.5.3.2 Forecast Trend (2025-2034)
 - 5.5.4 Above 75KW
 - 5.5.4.1 Historical Trend (2018-2024)
 - 5.5.4.2 Forecast Trend (2025-2034)
 - 5.6 Global Electric DC Motors Market by End Use
 - 5.6.1 Industrial Machinery
 - 5.6.1.1 Historical Trend (2018-2024)
 - 5.6.1.2 Forecast Trend (2025-2034)
 - 5.6.2 Motor Vehicles
 - 5.6.2.1 Historical Trend (2018-2024)
 - 5.6.2.2 Forecast Trend (2025-2034)
 - 5.6.3 HVAC Equipment
 - 5.6.3.1 Historical Trend (2018-2024)
 - 5.6.3.2 Forecast Trend (2025-2034)
 - 5.6.4 Aerospace and Transportation
 - 5.6.4.1 Historical Trend (2018-2024)
 - 5.6.4.2 Forecast Trend (2025-2034)
 - 5.6.5 Household Appliances
 - 5.6.5.1 Historical Trend (2018-2024)
 - 5.6.5.2 Forecast Trend (2025-2034)
 - 5.6.6 Others
 - 5.7 Global Electric DC Motors Market by Region
 - 5.7.1 North America
 - 5.7.1.1 Historical Trend (2018-2024)
 - 5.7.1.2 Forecast Trend (2025-2034)
 - 5.7.2 Europe
 - 5.7.2.1 Historical Trend (2018-2024)

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- 5.7.2.2 Forecast Trend (2025-2034)
- 5.7.3 Asia Pacific
 - 5.7.3.1 Historical Trend (2018-2024)
 - 5.7.3.2 Forecast Trend (2025-2034)
- 5.7.4 Latin America
 - 5.7.4.1 Historical Trend (2018-2024)
 - 5.7.4.2 Forecast Trend (2025-2034)
- 5.7.5 Middle East and Africa
 - 5.7.5.1 Historical Trend (2018-2024)
 - 5.7.5.2 Forecast Trend (2025-2034)
- 6 North America Electric DC Motors Market Analysis
 - 6.1 United States of America
 - 6.1.1 Historical Trend (2018-2024)
 - 6.1.2 Forecast Trend (2025-2034)
 - 6.2 Canada
 - 6.2.1 Historical Trend (2018-2024)
 - 6.2.2 Forecast Trend (2025-2034)
- 7 Europe Electric DC Motors Market Analysis
 - 7.1 United Kingdom
 - 7.1.1 Historical Trend (2018-2024)
 - 7.1.2 Forecast Trend (2025-2034)
 - 7.2 Germany
 - 7.2.1 Historical Trend (2018-2024)
 - 7.2.2 Forecast Trend (2025-2034)
 - 7.3 France
 - 7.3.1 Historical Trend (2018-2024)
 - 7.3.2 Forecast Trend (2025-2034)
 - 7.4 Italy
 - 7.4.1 Historical Trend (2018-2024)
 - 7.4.2 Forecast Trend (2025-2034)
 - 7.5 Others
- 8 Asia Pacific Electric DC Motors Market Analysis
 - 8.1 China
 - 8.1.1 Historical Trend (2018-2024)
 - 8.1.2 Forecast Trend (2025-2034)
 - 8.2 Japan
 - 8.2.1 Historical Trend (2018-2024)
 - 8.2.2 Forecast Trend (2025-2034)
 - 8.3 India
 - 8.3.1 Historical Trend (2018-2024)
 - 8.3.2 Forecast Trend (2025-2034)
 - 8.4 ASEAN
 - 8.4.1 Historical Trend (2018-2024)
 - 8.4.2 Forecast Trend (2025-2034)
 - 8.5 Australia
 - 8.5.1 Historical Trend (2018-2024)
 - 8.5.2 Forecast Trend (2025-2034)

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- 8.6 Others
- 9 Latin America Electric DC Motors Market Analysis
 - 9.1 Brazil
 - 9.1.1 Historical Trend (2018-2024)
 - 9.1.2 Forecast Trend (2025-2034)
 - 9.2 Argentina
 - 9.2.1 Historical Trend (2018-2024)
 - 9.2.2 Forecast Trend (2025-2034)
 - 9.3 Mexico
 - 9.3.1 Historical Trend (2018-2024)
 - 9.3.2 Forecast Trend (2025-2034)
 - 9.4 Others
- 10 Middle East and Africa Electric DC Motors Market Analysis
 - 10.1 Saudi Arabia
 - 10.1.1 Historical Trend (2018-2024)
 - 10.1.2 Forecast Trend (2025-2034)
 - 10.2 United Arab Emirates
 - 10.2.1 Historical Trend (2018-2024)
 - 10.2.2 Forecast Trend (2025-2034)
 - 10.3 Nigeria
 - 10.3.1 Historical Trend (2018-2024)
 - 10.3.2 Forecast Trend (2025-2034)
 - 10.4 South Africa
 - 10.4.1 Historical Trend (2018-2024)
 - 10.4.2 Forecast Trend (2025-2034)
 - 10.5 Others
- 11 Market Dynamics
 - 11.1 SWOT Analysis
 - 11.1.1 Strengths
 - 11.1.2 Weaknesses
 - 11.1.3 Opportunities
 - 11.1.4 Threats
 - 11.2 Porter's Five Forces Analysis
 - 11.2.1 Supplier's Power
 - 11.2.2 Buyer's Power
 - 11.2.3 Threat of New Entrants
 - 11.2.4 Degree of Rivalry
 - 11.2.5 Threat of Substitutes
 - 11.3 Key Indicators for Demand
 - 11.4 Key Indicators for Price
- 12 Value Chain Analysis
- 13 Competitive Landscape
 - 13.1 Supplier Selection
 - 13.2 Key Global Players
 - 13.3 Key Regional Players
 - 13.4 Key Player Strategies
 - 13.5 Company Profiles

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- 13.5.1 AMETEK, Inc.
 - 13.5.1.1 Company Overview
 - 13.5.1.2 Product Portfolio
 - 13.5.1.3 Demographic Reach and Achievements
 - 13.5.1.4 Certifications
- 13.5.2 Allied Motion Technologies, Inc.
 - 13.5.2.1 Company Overview
 - 13.5.2.2 Product Portfolio
 - 13.5.2.3 Demographic Reach and Achievements
 - 13.5.2.4 Certifications
- 13.5.3 ABB Motors and Mechanical Inc.
 - 13.5.3.1 Company Overview
 - 13.5.3.2 Product Portfolio
 - 13.5.3.3 Demographic Reach and Achievements
 - 13.5.3.4 Certifications
- 13.5.4 Siemens Ltd.
 - 13.5.4.1 Company Overview
 - 13.5.4.2 Product Portfolio
 - 13.5.4.3 Demographic Reach and Achievements
 - 13.5.4.4 Certifications
- 13.5.5 Johnson Electric Holdings Ltd.
 - 13.5.5.1 Company Overview
 - 13.5.5.2 Product Portfolio
 - 13.5.5.3 Demographic Reach and Achievements
 - 13.5.5.4 Certifications
- 13.5.6 Others

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