

Global Automotive Motor Market (2019-2025)

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Abstracts

The Global Automotive Motor Market size is expected to reach \$49.6 billion by 2025, rising at a market growth of 7.1% CAGR during the forecast period. Automotive motor is a system that transforms electrical energy into mechanical energy. The combustion process burns the fuel in the case of an internal combustion engine (ICE), and the heat generated is transformed by the engine into mechanical energy. Electric motors convert electrical energy into mechanical energy in the case of an electric vehicle.

Increased passenger and commercial vehicle demand is expected to boost the automotive motor market over the forecast period. Strict rules and regulations laid down by governments across the world to incorporate various active safety systems such as lane keep assist, electronic stability control (ESC) and anti-lock braking system (ABS) in vehicles are also likely to drive the motor vehicle market over the coming years. The growing need for more fuel-efficient vehicles is raising the need for higher efficiency and better quality automotive motors. In the coming years, this is expected to propel the automotive motor market.

The adoption of electric motors in automobiles has seen a steady rise over the forecast period. It is anticipated that increased emphasis on improving design and manufacturing processes to deliver better products with improved efficiency would bode well for product demand. The market is experiencing tremendous growth due to the increase in the production of automobiles and the number of motors used in a particular vehicle.

Based on Distribution Channel, the market is segmented into Aftermarket and OEM. Depending on the sales channel, the market has been classified as OEMs and aftermarket. The OEM segment had a significant market share in 2018. Nevertheless, the aftermarket emerged as a dominant segment in 2018 and is expected to be seeing the fastest growth in the forecast years. The motors must be replaced after a certain period of time due to their extended use and to the improved performance of the vehicle

that drives the segment. Based on Application, the market is segmented into Comfort, Safety and Others. The safety motor segment is expected to see significant growth by 2025 due to the increasing strictness of government rules and regulations concerning the incorporation of safety systems in vehicles. The comfort application segment is expected to see the fastest growth over the forecast period as the comfort motor has improved driving capability. Based on Vehicle Type, the market is segmented into Non-Electric Vehicle and Electric Vehicle. Based in Type, the market is segmented into Brushed DC Motor, Brushless DC Motor, Traction Motor and Others. Based on Regions, the market is segmented into North America, Europe, Asia Pacific, and Latin America, Middle East & Africa.

The major strategies followed by the market participants are Product launches and Partnerships & Collaborations. Based on the Analysis presented in the Cardinal matrix, Continental AG, Denso Corporation, Robert Bosch GmbH, and Siemens AG are some of the forerunners in the Automotive Motor Market. The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include Siemens AG, Robert Bosch GmbH, Continental AG, Denso Corporation, Mitsubishi Electric Corporation, Valeo SA, Mahle Group, Nidec Corporation, BorgWarner, Inc., and Johnson Electric Holdings Limited.

Recent strategies deployed in Automotive Motor Market

Partnerships, Collaborations, and Agreements:

Dec-2019: Mitsubishi signed an alliance with Nissan Motor and Renault SA in which they will form a new joint venture company. This joint venture will be focused on research and development of advanced automotive technologies.

Oct-2019: Valeo teamed up with Dana, Inc. for developing and supplying 48-volt electric-vehicle systems for new mobility applications including hybrid e-AWD vehicles and low speed-electric vehicles. Together the companies provide complete electromechanical systems to customers. These systems will be equipped with Dana-designed Spicer® Electrified™ e-Gearbox and Valeo-developed electric motor and inverter.

Aug-2019: Nidec has signed an agreement with Guangzhou Automobile Group in order to establish a joint venture company named after Guangzhou Nidec Auto Drive System Co., Ltd. This JV will exploit the Nidec's drive and electronics technologies and Guangzhou Automobile Group's collective know-how on finished vehicles mechanism for developing, manufacturing, and selling low-cost and high efficiency traction motors.

Jun-2019: Denso collaborated with Honeywell for propelling the future of urban air mobility and other aerospace market segments. This can be done through combining the expertise of both the companies to produce fully-electric and hybrid electric powertrains. Urban air mobility includes air vehicles such as air taxis and UAM is aimed at offering more efficient movement for people to decrease the ground traffic and improving safety. The major advancements in motor, materials, and generators are making electric-powered flight affordable, possible, and practical.

May-2019: Siemens came into partnership with Dunkermotoren. In this partnership, Dunkermotoren BG series motors will be available in specific versions that are compatible with Siemens SIMATIC MICRO-DRIVE servo drive system. BG series includes BG 75, BG 45, BG 95, and BG 65(S) are 24 to 48 V brushless DC motors with power ranges from 20 to 1,000 W. SIMATIC MICRO-DRIVE servo drive system has been integrated with SIMATIC world significantly shortens engineering time.

Jan-2019: Denso established a joint venture Company, J-QuAD Dynamics together with JTEKT. This JV Company is engaged in developing integrated control software for use in vehicle motion control, automated driving, and other related functions.

Aug-2018: Continental Motors in collaboration with AVIC International opened a 275,000-square-foot engine-manufacturing facility in Mobile, Alabama. The factory has been incorporated with new manufacturing equipment and a special evaluation area focusing on advanced building techniques such as automation and additive manufacturing. The plant is dedicated towards the development of advanced engines and parts for all the product lines of Continental Motors.

Aug-2018: Denso signed an agreement with Aisin Seiki Co., Ltd. for establishing a new joint venture company that focuses on developing and selling electrification driving modules. The joint venture focuses on developing driving modules for fuel cell vehicles, hybrids, electric vehicles, and plug-in-hybrids vehicles.

Acquisition and Mergers:

Apr-2019: Nidec signed a definitive agreement to acquire Omron Automotive Electronics. The acquisition helps Nidec in developing electric brake motors, electric power steering (EPS) motors, and electronic control units (ECU).

Feb-2019: Continental acquired Kathrein Automotive GmbH, automotive division of

Kathrein. The acquisition helps Continental in offering the broad portfolio ranging from rod antennas to the Intelligent Antenna Module.

Feb-2019: BorgWarner took over two Oregon-based EV powertrain businesses, Rinehart Motion Systems LLC and AM Racing Inc. in order to form Cascadia Motion LLC. Cascadia Motion will use the expertise of both companies in developing and manufacturing of technologies used in full electric and hybrid propulsion systems for low volume and niche manufacturing applications.

Jan-2019: Bosch took complete control of the joint venture, EM-motive, established in 2011 between Bosch and Daimler. The joint venture is focused towards the development and manufacturing of electric motors.

Jan-2019: Mahle announced the acquisition of ZG-Zahnrad und Getriebe GmbH, a transmission specialist. The acquisition helps Mahle in expanding its expertise in powertrain and broadening of its product portfolio.

Dec-2018: Siemens acquired COMSA Computer and Software GmbH, a developer of software for electrical systems design. The acquisition is aimed at fulfilling the demands of electric and autonomous vehicle development with the help of its electric systems and harness engineering. It also offers deeply integrated technical capabilities, which is beneficial for COMSA and Siemens customers.

Nov-2018: Continental signed a definitive agreement to acquire Cooper-Standard Automotive Inc.'s anti-vibration systems business. The acquisition broadened Continental's vibration control business and its ability to serve the automotive industry.

Product Launches and Product Expansions:

Dec-2019: BorgWarner launched new High Voltage Hairpin (HVH) 146 motor in order to extend its HVH Series motors. It is a permanent magnet electric motor, which is best-suited for hybrid-electric vehicle applications.

Aug-2019: Mahle developed Mahle Modular Hybrid Powertrain (MMHP), a new, fully-integrated and modular hybrid drive, which can be tailored to suite wide range of applications. The powertrain incorporates highly efficient 2 or 3 cylinder and turbocharged gasoline engine that includes the latest technologies from Mahle.

Jul-2019: Johnson Electric launched new E11 brushless DC motor which has the

features of power density, high torque and efficiency for use in Cordless Impact Wrenches.

Geographical Expansions:

Oct-2019: Valeo expanded its tech center in the Central China of Wuhan in order to strengthen the development capability of components and parts for intelligent vehicles. The expansion is focused towards the development of hardware and software for cameras, lidars, sensors, intelligent cockpits, and electronic control units used in vehicles.

May-2019: Siemens expanded its reach to United States by opening a new 272,000-square-foot facility in Wendell, N.C. Through this expansion, the company is focused towards manufacturing eMobility™ RAVE charger and short-cycle tiastar™ motor control center (MCC) product lines. The MCCs controls and monitors the motor and other key process variables.

Apr-2019: Denso integrated its consolidated subsidiary ASMO in the U.S. into its North American operations. Through integrating ASMO's small motor strength with Denso's expertise in large, high-power motors, Denso enhances the development of its motor technologies and innovations in North American customers.

Apr-2019: Valeo opened a new facility in Vallam, Chennai. This facility is engaged in manufacturing rear wiper motors for OEMs and the aftermarket segment in the country. This facility helps the company in expanding its footprints to Asia-Pacific.

Mar-2019: Mitsubishi Electric opened a new Plant in Czech Republic to produce motors and inverters for electric motor vehicles.

Oct-2018: Siemens together with Valeo opened a new plant in East China of Changshu in order to expand the output of high-voltage components for electrified vehicles in China. This plant has been established for producing systems and components for plug-in hybrids, hybrids, and full electrics.

Scope of the Study

Market Segmentation:

By Distribution Channel

Aftermarket

OEM

By Application

Comfort

Safety

Others

By Vehicle Type

Non-Electric Vehicle

Electric Vehicle

By Type

Brushed DC Motor

Brushless DC Motor

Traction Motor

Others

By Geography

North America

US

Canada

Mexico

Rest of North America

Europe

Germany

UK

France

Russia

Spain

Italy

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Singapore

Malaysia

Rest of Asia Pacific

LAMEA

Brazil

Argentina

UAE

Saudi Arabia

South Africa

Nigeria

Rest of LAMEA

Companies Profiled

Siemens AG

Robert Bosch GmbH

Continental AG

Denso Corporation

Mitsubishi Electric Corporation

Valeo SA

Mahle Group

Nidec Corporation

BorgWarner, Inc.

Johnson Electric Holdings Limited

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