

**TECHNOLOGY, MEDIA & TELECOM ABSTRACT** 

## **Electric motors in automotive** applications – 2017

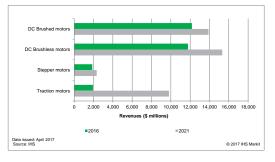
Joanne Goh, Manufacturing Technology Analyst – April 2017

# The industry's most extensive analysis of this dynamic market from a regional and application perspective – forecast to reach over \$34.6 billion globally in 2021.

This is the third edition of the IHS Markit research into the electric motor market in automotive applications. The world market for electric motors in automotive applications (excluding traction motors) is estimated to have been worth approximately \$26.3 billion in 2016, with almost 3.16 billion units shipped. The value of the market for traction motors specifically used in the EVs and HEVs was worth \$ 1.9 billion in 2016, with 3.4 million units shipped. The overall market (including traction motors) is forecast to grow at 8.3% compound annual growth rate (CAGR) in revenues, reaching an estimated \$34.6 billion in 2021. Asia Pacific (APAC) is forecast to be the fastest-growing region for electric motors used in automotive applications. Urbanization and industrialization in the emerging countries like India and Southeast Asia is driving the demand for vehicles. Growth of SUVs demand had add-on extra momentum for the electric motor market as SUVs has higher number of average motors per vehicle than normal passenger cars.

In this report, a detailed analysis and further breakdown are provided in geographic region and power rating for each motor type. The market research will also be presented for each product type by power rating for ther 2016 base year

Sample - The world market for electric motors in automotive applications by motor type



#### Key Issues Addressed

- How large was the market for electric motors in automotive applications in 2016?
- What is the growth forecast for the world and regional markets for electric motors used in automotive applications from 2017 to 2021?
- For which applications are electric motor shipments expected to perform above the market average? For which applications are expected to perform below the market average?
- Who are the leading suppliers of electric motors used in automotive applications? What were their market shares in 2016?

#### Applicable To

- Electric motors vendors, distributers and system integrators of automotive applications
- Automotive OEM companies and distributors
- Electric motor component suppliers
- Automotive application manufacturers and suppliers (e.g. power doors, power seats, etc.)
- Electric motor designer and manufacturers (ODM)
- Sales Executives and Investors

#### ACTUALS AND FORECAST

#### Frequency, Time Period

- 5-year annual forecast (2017 2021)
- Base year (2016)

#### Measures

- Revenues (\$ millions)
- Unit shipment (thousand)
- Average selling prices

#### **Regions**, Markets

- EMEA
- America
- Asia Pacific

## Market share analysis for each major:

- Traction motor market
- Other electric motor market (DC brushed ; DC Brushless ; Stepper)

#### PRODUCTS COVERED

- DC Brushed motor
- DC Brushless motor
- Stepper motor
- Traction motor

#### **TECHNOLOGIES COVERED**

- Applications (Powertrain, Chassis and breaking, Airflow, Power seating, others)
- Power rating

#### KEY TRANSFORMATIONS DRIVING CHANGE

- Global light vehicle demand
- Political and legislative landscape (emission standards, government investment and incentives, safety regulations)

#### LEAD ANALYST

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Joanne Goh is an analyst in the Manufacturing Technology group at IHS Markit specializing in motor systems and motor-driven equipment across all major verticals. Prior to joining IHS, Joanne worked at Advanced Micro Devices (AMD) as an equipment engineer, where she was involved in cross-functional team projects to drive yield & process productivity improvements. Joanne holds a Bachelor's degree with Honors in Biotechnology from UCSI University, Malaysia. She is fluent in Mandarin, English and Malay and she is based in the IHS Markit office in Penang, Malaysia. Joanne can be contacted at joanne.goh@ihsmarkit.com

#### ABOUT IHS MARKIT TECHNOLOGY MANUFACTURING TECHNOLOY

IHS Technology is the leading provider of market intelligence on industrial motors, motor controls and switchgear. Having studied these markets for around fifteen years, we have amassed a wealth of insight and market data that is recognized as being the most detailed and accurate of its kind. The findings of this report will be verified across our global analyst team located in Europe, China, Japan, and the United States.

Our annual reports on the motion control, and the low and medium voltage motor and drive markets, are purchased by most of the world's largest suppliers of industrial automation products, as well as by many medium and small manufacturers and companies in allied technology markets. Our range of products and services includes detailed annual market reports, quarterly market trackers and customer surveys. As well as the offthe-shelf studies, we also offer custom research and strategy consultancy services, and have successfully completed projects for some of the world's largest industrial automation companies.

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- Global light vehicle production overview
- Political and legislative landscape Emission standard Investment and incentives Safety regulations

### The world market for electric motors in automotive applications

- Global overview
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- Product type
- Automotive applications
- Powertrain
- *Chassis and breaking Power seating*
- Airflow
- Other applications
- Electric vehicle (EV) and Hybrid electric vehicle (HEV) specific applications
- Power rating

#### **Competitive Environment**

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- Major announcements in electric
- motors in automotive applications
- World market shares

Appendix One – Introduction, methodology and definitions

For more information technology.ihs.com

#### About IHS Markit

IHS Markit (Nasdaq: INFO) is a world leader in critical information, analytics and solutions for the major industries and markets that drive economies worldwide. The company delivers next-generation information, analytics and solutions to customers in business, finance and government, improving their operational efficiency and providing deep insights that lead to well-informed, confident decisions. IHS Markit has more than 50,000 key business and government customers, including 85 percent of the Fortune Global 500 and the world's leading financial institutions. Headquartered in London, IHS Markit is committed to sustainable, profitable growth.

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