

# Automotive Components: A BCC Research Outlook

<https://marketpublishers.com/r/AE21637B76BEN.html>

Date: July 2019

Pages: 193

Price: US\$ 5,500.00 (Single User License)

ID: AE21637B76BEN

## Abstracts

### REPORT SCOPE:

The topics analyzed within the report include a detailed analysis of the global markets within automotive industry. The scope of this report extends to sizing of the automotive components market and an analysis of global market trends with market data for materials, components, and technology types at global level in 2018, which is being considered as the base year, 2019 as the estimate year and forecast for 2024 with projection of CAGR from 2019 to 2024.

The report focuses on assessment of automotive materials, components suppliers and an analysis of companies/ manufacturers and the related system providers. Market dynamics such as drivers, restraints, opportunities and challenges are also discussed in the report.

While this report contains a significant amount of technical information due to the inherent nature of the subject and thus provides information valuable to engineers and scientists, it is primarily aimed at business professionals in field of automotive. These may include manufacturers and their suppliers, financiers and investors, researchers with backgrounds in engineering and sciences, marketing and sales professionals, renewable energy advocates, and others.

This report may also prove valuable to professional analysts, investors, public policy advisors and others who are seeking a better understanding and definition of how automotive components and materials fit into the broader global automotive market.

### REPORT INCLUDES:

A brief general outlook and holistic overview of the global market for automotive

## components

Analyses of the global market trends with data from 2018, estimates for 2019, and projections of compound annual growth rates (CAGRs) through 2024

Assessment of key trends related to technology, industry, and regional factors that shape and influence the overall analytics industry

Outlining details of manufacturers and developers of automotive components driven mainly by miniaturization and increased functionality with greater performance, and how they are increasingly used in industries such as automotive, medical electronics, aerospace, and defense

Information on government regulations, environmental concerns, current trends and technological updates that can shape future marketplace in this ever-expanding market

Patent analysis covering all major categories

Company profiles of major global players within the industry, including 3M, AkzoNobel NV, Ametek Inc., BASF Corp., and Clariant AG

## Contents

### CHAPTER 1 INTRODUCTION

Study Background  
Study Goals and Objectives  
Reasons for Doing the Study  
Scope of Report  
Methodology and Information Sources  
Geographic Breakdown  
Analyst's Credentials  
BCC Custom Research  
Related BCC Research Reports

### CHAPTER 2 SUMMARY AND HIGHLIGHTS

### CHAPTER 3 MARKET OVERVIEW

Introduction  
Automotive Industry Outlook  
Current Trends in the Automotive Component Industry  
Increased Adoption in Various Levels of Automotive Manufacturing  
Decreasing Battery Prices Boost the Sale of Electric Vehicles  
Rising Number of Alternative Fuel Vehicles Fuels the Growth of Automotive Components  
Tax Incentives and Regulatory Assistance for Plug-in Hybrid Electric and Battery Electric Vehicles (PHEV's and BEV's)  
Intense Competition in the Automotive Component Industry  
Technical Challenges in Designing Completely Reliable Battery Management Systems  
Upcoming Technologies  
Developments in Automotive Sensors  
Developments in Automobile Electronics  
Developments in Automobile Sensor Technologies

### CHAPTER 4 AUTOMOTIVE MATERIALS AND GLOBAL MARKETS

Introduction  
Automotive Composites  
High-Strength Steel

Aluminum  
Titanium  
Magnesium  
Plastics  
Metal Matrix Composites  
Hybrid Materials  
Polymer Composites' Share of Automotive Lightweight Materials Consumption  
Automotive Engineering Resins and Polymer Alloys/Blends  
Under-The-Hood Segment  
Auto Exteriors  
Regulatory Aspects of Plastic Automotive Glazing  
Automotive Interior Segment  
Materials  
Automotive Market Summary  
Adhesives in Automobile Applications  
Adhesives in Car Bodywork Construction  
Adhesives in Bonding Panes of Glass into Car Bodywork  
Adhesives in Electronic Part Bonding

## **CHAPTER 5 AUTOMOTIVE COMPONENTS AND GLOBAL MARKETS**

Global Market for HUDs in Automobiles, by Component  
Global Market for Automotive HUDs  
Advanced Driving Assistance System (ADAS), by Type of Component  
Parking Assistance Systems  
Adaptive Front Lighting Systems  
Blind Spot Detection  
Advanced Emergency Braking Systems (AEBS)  
Collision Warning Systems  
Electronic Stability Control  
Driver Drowsiness Alert  
Traffic Sign Recognition Market  
Lane Departure Warning Systems  
Adaptive Cruise Control  
Others  
Sensors for Advanced Driving Assistance System (ADAS)  
Radar ADAS Sensors  
Image ADAS Sensors  
Laser ADAS Sensors

Ultrasonic ADAS Sensors  
Infrared ADAS Sensors  
Automotive Sensors, by Functionality  
Global Market for Rotational Motion Sensors, by Type  
Global Market for Angular and Linear Position Sensors, by Type  
Global Market for Chemical and Gas Sensors, by Type  
Global Market for Accelerometers, by Type  
Global Market for Pressure Sensors, by Type  
Global Market for Mass Airflow Sensors, by Type  
Global Market for Temperature Sensors, by Type  
Global Market for Image and Vision Sensors, by Type  
Global Market for Radar and LIDAR Sensors, by Type  
Global Market for IoT Sensors, by Type  
Global Market for Other Varieties of Sensors, by Type  
Automotive Battery Management System, by Battery Type  
Lithium Ion Batteries  
Nickel Metal Hydride Batteries  
Other Batteries  
Global Market for Vehicle Paints and Coatings

## **CHAPTER 6 AUTOMOTIVE COMPONENT MARKETS FOR ELECTRIC VEHICLES**

Introduction  
Global Market for Components Used in Hybrid Electric Vehicles  
Engines  
Batteries and Battery Software  
Motors  
Generators  
Continuously Variable Transmissions (CVT's)  
Ultracapacitors  
IGBT Inverters  
Electronic Control Units  
Integrated Power Units  
High-Voltage Wiring  
Electric Compressors for HVAC  
Electric Power Steering  
Regenerative Braking  
Other Components of Hybrid Electric Vehicles  
Global Market for Components Used in Hybrid Electric Vehicles, by Type of Vehicles

Mild Hybrids

Full Hybrid

Plug-In Hybrid Electric Vehicle (PHEV)

## **CHAPTER 7 COMPANY PROFILES**

### **AUTOMOTIVE COMPANIES**

3M

ABB LTD.

ADVANCED NAVIGATION & POSITIONING CORP.

ADVANCED SENSORS CALIBRATION GMBH

ADVANCED COMPOSITES INC.

AISIN SEIKI CO. LTD.

AKZONOBEL NV

ALPHABET INC.

ALLEGRO MICROSYSTEMS LLC

ALPS ELECTRIC CO. LTD.

AMERICAN ELECTRONIC COMPONENTS INC.

AMERICAN SENSOR TECHNOLOGIES INC.

AMETEK INC.

ANALOG DEVICES INC.

APPLIED TECHNOLOGY ASSOCIATES

APTIV PLC

ASIAN PAINTS LTD.

AUDI AG

BAE SYSTEMS

BASF CORP.

BAYERISCHE MOTOREN WERKE (BMW) AG

BECKER INDUSTRIAL COATINGS LTD.

BORGWARNER BERU SYSTEMS GMBH

BROADCOM CORP.

BUHLER GROUP (NANOTECHNOLOGY)

BYD CO. LTD.

CALIFORNIA PRODUCTS CORP.

CHINA AUTOMOTIVE SYSTEMS INC.

CLARIANT AG

CONTINENTAL AUTOMOTIVE ELECTRONICS LLC

CONTINENTAL AG

CROSSBOW TECHNOLOGY INC.

CTS CORP.  
DAIMLER AG  
DAI NIPPON TORYO  
DELPHI CORP.  
DENSO CORP.  
DOW CORNING CORP.  
DUPONT RUSSIAN COATINGS LLC  
EATON CORP. PLC  
EMERSON ELECTRIC CO.  
E.I. DU PONT DE NEMOURS & CO.  
FORD MOTOR COMPANY  
FIAT CHRYSLER AUTOMOBILES  
FUJI ELECTRIC CO. LTD.  
GE MEASUREMENT & CONTROL SOLUTIONS  
GEVEKO MARKINGS SWEDEN AB  
HITACHI AUTOMOTIVE SYSTEMS, LTD.  
HELLA GMBH & CO. KGAA  
HITACHI AUTOMOTIVE SYSTEMS  
HONEYWELL SENSING & CONTROLS  
HYUNDAI MOBIS  
JOHNSON CONTROLS INC.  
KANSAI PAINT CO. LTD.  
KIA MOTORS  
LITTELFUSE INC.  
LG CHEM, LTD.  
MAGNA INTERNATIONAL INC.  
MITSUBISHI ELECTRIC CORP.  
MOBILEYE N.V.  
MORGAN ADVANCED MATERIALS AND TECHNOLOGY  
MICROCHIP TECHNOLOGY INC.  
NIPPON PAINT CO. LTD.  
NISSAN  
NXP SEMICONDUCTORS  
OMRON CORP.  
PANASONIC AUTOMOTIVE SYSTEMS CO. OF AMERICA  
PEUGEOT CITROEN  
PIDILITE INDUSTRIES LTD.  
PPG INDUSTRIES INC.  
RENESAS ELECTRONICS CORP.

RENAULT  
ROBERT BOSCH GMBH  
ROCKWELL COLLINS  
RPM INTERNATIONAL INC.  
SAAB GROUP  
SAMSUNG SDI CO., LTD.  
SIEMENS AG  
ST MICROELECTRONICS  
SUMITOMO ELECTRIC INDUSTRIES LTD.  
TE CONNECTIVITY LTD.  
TESLA, INC.  
TELEDYNE OPTECH INC.  
TEXAS INSTRUMENTS  
THALES GROUP  
TORAY INDUSTRIES INC.  
TOSHIBA CORP.  
TOYOTA MOTOR CORP.  
TT ELECTRONICS PLC  
VALSPAR CORP.  
VOLKSWAGEN GROUP  
YAZAKI CORP.  
YUNG-CHI PAINT AND VARNISH MANUFACTURING CO. LTD.  
ZF FRIEDRICHSHAFEN AG



## List Of Tables

### LIST OF TABLES

Summary Table: Global Market for ADAS, by Sensor Type, Through 2024

Table 1: Global Production of Cars and Commercial Vehicles, by Country, 2018

Table 2: U.S. Federal Tax Incentives for Plug-in Hybrid Electric Vehicles

Table 3: U.S. Federal Tax Incentives for Battery Electric Vehicles

Table 4: India Tax Incentives for Strong Hybrids, and Plug-in Hybrid Electric Vehicles

Table 5: Electric Vehicle Deployment Targets for Different Countries

Table 6: Aluminum Alloy Designations

Table 7: Titanium Applications in Motor Vehicles

Table 8: Commonly Used Plastics in Automotive Applications

Table 9: Typical Plastics' Applications in Motor Vehicles

Table 10: Potential Automotive Applications of MMCs

Table 11: Global Market for Lightweight Materials Used in Motor Vehicles, by Materials, Through 2024

Table 12: Global Market Volume Share for Lightweight Materials Used in Motor Vehicles, by Materials, 2018-2024

Table 13: Global Market Share for Lightweight Materials Used in Motor Vehicles, by Materials, 2018-2024

Table 14: Automotive Under-The-Hood Reinforced Resin Composites, by Part

Table 15: Global Automotive Market for Under-The-Hood, by Resin, Through 2024

Table 16: Resins Used for Exterior Automotive Parts

Table 17: Global Automotive Market for Exterior Material, by Resin, Through 2024

Table 18: Resins Used for Interior Automotive Parts

Table 19: Resin Usage in Automotive Lenses

Table 20: Global Automotive Market for Interior Material, by Resin, Through 2024

Table 21: Global Automotive Market, by Resin, Through 2024

Table 22: Global Automotive Market for Adhesive, by Application, Through 2024

Table 23: Global Market for HUDs in Automobiles, by Component, Through 2024

Table 24: Global Market for Automotive HUDs, by Subsegment, Through 2024

Table 25: Global Market for ADAS, by Type of Component, Through 2024

Table 26: Driver Drowsiness Alert Systems from Various Companies

Table 27: Global Market for ADAS, by Sensor Type, Through 2024

Table 28: Global Market for Automotive Sensors, by Type, Through 2024

Table 29: Global Market for Rotational Motion Sensors, by Type, Through 2024

Table 30: Global Market for Angular and Linear Position Sensors, by Type, Through 2024

Table 31: Global Market for Chemical and Gas Sensors, by Type, Through 2024

Table 32: Global Market for Accelerometers, by Type, Through 2024

Table 33: Global Market for Pressure Sensors, by Type, Through 2024

Table 34: Global Market for Mass Airflow Sensors, by Type, Through 2024

Table 35: Global Market for Temperature Sensors, by Type, Through 2024

Table 36: Global Market for Image and Vision Sensors, by Type, Through 2024

Table 37: Global Market for Radar and LIDAR Sensors, by Type, Through 2024

Table 38: Global Market for IoT Sensors, by Type, Through 2024

Table 39: Global Market for Other Varieties of Sensors, by Type, Through 2024

Table 40: Global Market for Automotive Battery Management System, by Battery Type, Through 2024

Table 41: Comparison of Different Lithium Ion Battery Chemistries

Table 42: Global Market for Lithium Ion Battery Management System, by Type of Vehicle, Through 2024

Table 43: Global Market for Nickel Metal Hydride Battery Management System, by Type of Vehicle, Through 2024

Table 44: Global Market for Other Types of Battery Management System, by Type of Vehicle, Through 2024

Table 45: Global Market for Vehicle Paints and Coatings, by End Use, Through 2024

Table 46: Global Market for Hybrid Electric Vehicles, by Components, Through 2024

Table 47: Global Market Share for Hybrid Electric Vehicles, by Components, 2019 and 2024

Table 48: Unit Costs of Engines for Hybrid Electric Vehicles, by Type, 2018-2024

Table 49: Global Market for Engines Used in Hybrid Electric Vehicles, by Type, Through 2024

Table 50: Unit Costs of Batteries for Hybrid Electric Vehicles, by Type, 2018-2024

Table 51: Global Market for Batteries Used in Hybrid Electric Vehicles, by Type, Through 2024

Table 52: Global Market for Motors Used in Hybrid Electric Vehicles, by Type, Through 2024

Table 53: Global Market for Generators Used in Hybrid Electric Vehicles, by Type, Through 2024

Table 54: Global Market for CVT's Used in Hybrid Electric Vehicles, by Type, Through 2024

Table 55: Global Market for Ultracapacitors Used in Hybrid Electric Vehicles, by Type, Through 2024

Table 56: Global Market for IGBT Inverters Used in Hybrid Electric Vehicles, by Type, Through 2024

Table 57: Global Market for Electronic Control Units Used in Hybrid Electric Vehicles, by

Type, Through 2024

Table 58: Global Market for Integrated Power Units Used in Hybrid Electric Vehicles, by Type, Through 2024

Table 59: Global Market for High Voltage Wiring Used in Hybrid Electric Vehicles, by Type, Through 2024

Table 60: Global Market for Electric Compressors for HVAC Used in Hybrid Electric Vehicles, by Type, Through 2024

Table 61: Global Market for Electric Power Steering Used in Hybrid Electric Vehicles, by Type, Through 2024

Table 62: Global Market for Regenerative Braking Used in Hybrid Electric Vehicles, by Type, Through 2024

Table 63: Global Market for Other Components Used in Hybrid Electric Vehicles, by Type, Through 2024

Table 64: Global Market Volume for Components of Hybrid Electric Vehicles, by Type, Through 2024

Table 65: Global Market for Components of Hybrid Electric Vehicles, by Type, Through 2024

## List Of Figures

### LIST OF FIGURES

Summary Figure: Global Market for ADAS, by Sensor Type, 2018-2024

Figure 1: Global Market Volume Share for Lightweight Materials Used in Motor Vehicles, by Materials, 2018-2024

Figure 2: Global Market Share for Lightweight Materials Used in Motor Vehicles, by Materials, 2018-2024

Figure 3: Global Market Share for HUDs in Automobiles, by Component, 2019 and 2024

Figure 4: Global Market Share for Automotive HUDs, by Subsegment, 2019 and 2024

Figure 5: Global Market Share for ADAS, by Product Type, 2018

Figure 6: Global Market Share for ADAS, by Sensor Type, 2018

Figure 7: Global Market for ADS, by Sensor Type, 2018-2024

Figure 8: Global Market for Automotive Sensors, by Type, 2018-2024

Figure 9: Global Market for Rotational Motion Sensors, by Type, 2018-2024

Figure 10: Global Market for Angular and Linear Position Sensors, by Type, 2018-2024

Figure 11: Global Market for Chemical and Gas Sensors, by Type, 2018-2024

Figure 12: Global Market for Accelerometers, by Type, 2018-2024

Figure 13: Global Market for Pressure Sensors, by Type, 2018-2024

Figure 14: Global Market for Mass Airflow Sensors, by Type, 2018-2024

Figure 15: Global Market for Image and Vision Sensors, by Type, 2018-2024

Figure 16: Global Market for Radar and LIDAR Sensors, by Type, 2018-2024

Figure 17: Global Market for IoT Sensors, by Type, 2018-2024

Figure 18: Global Market for Other Varieties of Sensors, by Type, 2018-2024

Figure 19: Global Market for Automotive Battery Management System, by Battery Type, 2019 and 2024

Figure 20: Global Market for Vehicle Paints and Coatings, by End Use, 2018-2024

Figure 21: Global Market for Components of Hybrid Electric Vehicles, by Type, 2018-2024

## I would like to order

Product name: Automotive Components: A BCC Research Outlook

Product link: <https://marketpublishers.com/r/AE21637B76BEN.html>

Price: US\$ 5,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/AE21637B76BEN.html>