

## Report Information

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# Automotive Engine Management System Market Research Report - Global Forecast to 2030

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Description:

## Automotive Engine Management System Market Overview:

Automotive engine management system market value is expected to witness remarkable growth of USD 235.6 billion during the forecast period at a CAGR of 7%.

The automotive engine management system market is dependent on the automobile industry. Therefore, the increase or decrease in the demand for automobiles directly affects the automotive engine management system market. After the lockdown, there has been a huge increase in the sales of vehicles. For this reason, the manufacturers are developing more advanced technologies to meet the demand of the customers and satisfy their needs.

The automotive engine management system controls and adjusts the ignition timing of the amount of fuel that is being injected into the car. It consists of sensors that control the engine speed, intake air and coolant temperature, and oxygen sensors to control the emissions.

### COVID-19 Analysis

Due to the sudden outbreak of the COVID-19 pandemic, most governments of several countries imposed strict lockdown norms for more than 3 months. This affected the production of vehicles immensely. Due to the closure of the manufacturing units, the sales of the vehicles came to a halt. Though there are some OEMs that have started their production again, still according to the automotive engine management system market analysis, the automotive engine management system may observe a decline in 2020.

The COVID-19 pandemic has interrupted the production of vehicles. Different automakers are still trying to focus on innovative strategies to develop various engine management systems. After the lockdown, considering the normalcy of the automotive industry, the automotive engine management system market outlook may change in a positive way in the coming years.

### Market Dynamics

- ## Drivers

The increased awareness of customers towards the emission of CO2 and pollution level has made the manufacturers of the automotive engine management system market develop more advanced vehicles with no emission of gases. The demand for environment-friendly vehicles which consume less fuel has now increased which in turn has increased the demand for engine management systems globally. This is the major driving force of the market.

- ## Opportunities

The lifespan of various vehicles is increasing with the advancement of technologies. There is a significant replacement cycle for every automobile. The replacement cycle of an engine management ECU repeats itself. Hence, becomes very important for the customer to make the replacement. The cost of the engine control module in the aftermarket is quite high which may increase the market revenue. Therefore, the replacement market also has many key players who expand the business and creates a great opportunity.

- ## Restraints

The rise in the rate of pollution is a major factor in the decrease in the sales of diesel vehicles. Thus, the rise in the demand for alternate vehicles has increased. Countries like South Korea, India, and China have started developing electric buses to reduce the emission and control pollution. Due to the emission concerns and enhancement of environmental awareness, there is an increase in the sales of FCEVs and BEVs. An increase in the sales of electric vehicles will affect the engine management system immensely as this EMS is not required in these vehicles.

- ## Challenges

To improve the engine performance measures like fuel consumption, emissions, and power output, the automotive manufacturers are constantly focused on the R&D of EMS. Manufacturing such systems are quite challenging for the automotive engine management system industry as it is difficult to control both the parameters (development and design) to keep under control.

- ## Cumulative Growth Analysis

The rapid rise in the sales of new vehicles along with the performance of improved vehicles has highly influenced the growth of the automotive engine management system market. Also, the increase in the involvement of new players in the market forced the established players to offer their quality products at affordable prices to stay in the competition. These factors will also be responsible for the increase in the automotive engine management system market revenue.

## Value Chain Analysis

The increase in customer awareness towards the pollution level and the emission of CO<sub>2</sub> forces the manufacturers of the automotive engine management system industry to keep the emissions under control and improve the fuel economy. The constant demand for automobiles and their advancements has led to an increase in the sales of commercial vehicles and passenger cars. Nowadays, automobile engines are developed with lower emissions and improved technologies that can control the ignition to fuel delivery. Due to this reason, there is a high chance of the automotive engine management system market to experience a significant growth in the coming years.

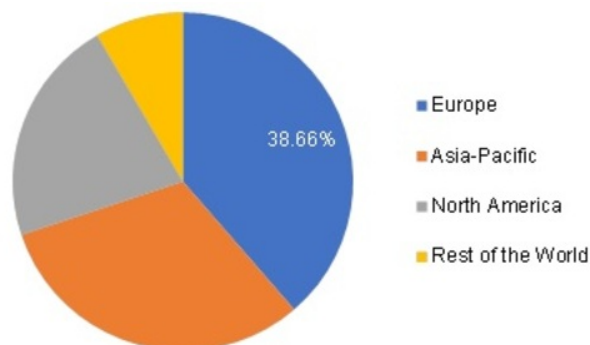
### Competitive Landscape

The companies that are responsible for the automotive engine management system market growth are Robert Bosch, Hitachi Automotive Systems, Denso Corporation, and Continental AG. These are some of the main companies that hold the largest market share. These companies are constantly implementing brand-new innovative strategies to stand out and maintain the competition in the global market. Here is a list of some of the key players that are responsible for inducing the growth of the automotive engine management system market.

#### List of companies

- Robert Bosch (Germany)
- NGK Spark Plug (Japan)
- Delphi Automotive (UK)
- Hitachi Automotive Systems (Japan)
- Denso Corporation (Japan)
- Continental AG (Germany)
- MBE Systems (UK)
- Hella KgaA Hueck (Germany)
- Infineon Technology (Germany)
- Sensata Technologies (Netherlands)

## Global Automotive Engine Management System Market Share, By Region, 2016 (%)



## Segment Overview

The automotive engine management system market size is segmented into three categories- by vehicle type, by fuel type, and by component. Here is a list of the segments and their sub-segments into which the market size is being divided.

## By Vehicle,

- Commercial Vehicles
- Passenger Cars

## By Component,

- Fuel Pump
- Engine Control Unit (ECU)
- Engine Sensors
- Others

## By Fuel Type,

- Diesel
- Gasoline

## Regional Analysis

On the basis of region, the automotive engine management system Market Share is segmented into various regions like North America, Asia Pacific, Europe, and the Middle East and Africa. Among these regions, the Asia Pacific region is expected to record the highest market share. In 2020, India executed BS-VI norms whereas China executed the China 6a and 6b. These are some of the upcoming missions that are going to take place in the Asia Pacific region and are going to drive the market.

Along with this, the demand for luxury cars has increased immensely. The rise in the demand for passenger cars has highlighted the need for advanced technologies and better performance of the engine. Therefore, the market for automotive engine management systems in the Asia Pacific region is estimated to witness significant market growth in recent years.

### Recent Developments

- Bosch introduced that Bosch Rexroth (Xi'an) Electric Drives and Controls Co. Ltd which is its subordinate, completed the construction of its second phase Xi'an Plant. This project was announced in 2020 and covered an area of 74,000 square metres square. After completing this project, the Xi'an plant is going to be an integrated intelligent industrial and manufacturing automatic solution provider.
- In the same year, Hitachi Automotive Systems Ltd. Completed purchasing all the shares of seneos GmnH. Seneos is a German automotive device software developer. Through this transaction, it became an owned subordinate of Hitachi Automotive Systems.
- Hella launched a second electronics plant in India in 2019. With the help of this production facility, Mehsana, which is in the north of Ahmedabad (a city in Gujarat), will be able to meet the rising demand for electronics components among the locals.

## Report Overview

The report for the global automotive engine management system market provides a clear picture of the current market scenario along with its historical and forecasted market size in terms of volume, value, advanced technological equipment, and the factors governing the market. This research report also outlines the automotive engine management system market trends along with the factors affecting the growth of the market like drivers, challenges, restraints, and opportunities. A detailed analysis is also done based on regions, competition among the key players, and the outbreak of the COVID-19 pandemic. The report also portrays the segmentation of the market and the recent developments that occurred in the market to enhance the growth.

### Report Detail

- Historic Period: 2019-2021
- Base Year: 2021
- Forecast Period: 2021-2023

## By Geographically,

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

## Table of Content:

Contents	
1 Executive Summary	
2 Introduction	
2.1 Definition	16
2.2 Scope Of The Study	16
2.3 Assumptions	16
2.4 Market Structure	17
3 Research Methodology	
3.1 Research Process	18
3.2 Primary Research	19
3.3 Secondary Research	19
3.4 Market Size Estimation	19
3.5 Forecast Model	21
4 Market Dynamics	
4.1 Introduction	22
4.2 Market Drivers	23
4.2.1 Booming Automotive Industry Coupled With Increasing Registration Of New Cars	23
4.2.2 Expansion Of Global Auto-Manufacturers Into Emerging Markets	23
4.2.3 Stringent Government Regulations On Reducing Vehicle Emission	24
4.3 Market Restraints	24
4.3.1 Availability Of Low Cost Conventional Technologies	24
4.3.2 Increasing Pricing Pressure	24
4.4 Market Trends & Opportunities	25
4.4.1 Advanced Automotive Industry Technologies	25
4.4.2 Increased Investment In Automotive Engine Management System Development Technologies	25
5 Market Factor Analysis	
5.1 Value Chain Analysis	26
5.1.1 Automotive Engine Management System Components Supply	26
5.1.2 Manufacture & Assembly	26
5.1.3 Distribution	27
5.1.4 End-Use	27
5.2 Porter's Five Forces	27
5.2.1 Threat Of New Entrants	28
5.2.2 Bargaining Power Of Suppliers	28
5.2.3 Bargaining Power Of Buyers	28
5.2.4 Threat Of Substitutes	28
5.2.5 Rivalry	29
6 Global Automotive Engine Management System Market, By Component	
6.1 Introduction	30
6.1.1 Engine Control Unit (ECU)	32

6.1.2 Engine Sensors	32
6.1.3 Fuel Pump	32
7 Global Automotive Engine Management System Market, By Engine Type	
7.1 Introduction	33
7.1.1 Gasoline Engine	35
7.1.2 Diesel Engine	35
8 Global Automotive Engine Management System Market, By Vehicle Type	
8.1 Introduction	36
8.1.1 Passenger Vehicles	37
8.1.2 Commercial Vehicles	37
9 Global Automotive Engine Management System Market, By Region	
9.1 Introduction	38
9.2 North America	40
9.2.1 U.S.	43
9.2.2 Canada	45
9.3 Europe	47
9.3.1 Germany	50
9.3.2 UK	51
9.3.3 Italy	53
9.3.4 France	54
9.3.5 Rest Of Europe	56
9.4 Asia-Pacific	58
9.4.1 China	61
9.4.2 Japan	63
9.4.3 India	65
9.4.4 Rest Of Asia-Pacific	67
9.5 Rest Of The World	69
9.5.1 South America	72
9.5.2 Middle East & Africa	73
10 Competitive Landscape	
11 Company Profiles	
11.1 Continental AG	77
11.1.1 Company Overview	77
11.1.2 Product/Service Offering	77
11.1.3 Financial Overview	78
11.1.4 Strategy	79
11.1.5 Key Developments	79
11.1.6 SWOT Analysis	80
11.2 Denso Corporation	81
11.2.1 Company Overview	81
11.2.2 Product/Service Offering	81
11.2.3 Financial Overview	82
11.2.4 Key Developments	83
11.2.5 Strategy	83
11.2.6 SWOT Analysis	84

11.3 Delphi Automotive PLC	85
11.3.1 Company Overview	85
11.3.2 Product/Service Offering	85
11.3.3 Financial Overview	86
11.3.4 Strategy	87
11.3.5 SWOT Analysis	87
11.4 Robert Bosch	88
11.4.1 Company Overview	88
11.4.2 Product/Service Offering	88
11.4.3 Financial Overview	88
11.4.4 Key Developments	90
11.4.5 Strategy	90
11.4.6 SWOT Analysis	90
11.5 Hella KgaA Hueck	91
11.5.1 Company Overview	91
11.5.2 Product/Service Offering	91
11.5.3 Financial Overview	91
11.5.4 Strategy	92
11.5.5 SWOT Analysis	93
11.6 Hitachi Automotive Systems, Ltd.	94
11.6.1 Company Overview	94
11.6.2 Product/Service Offering	94
11.6.3 Financial Overview	94
11.6.4 Strategy	95
11.6.5 SWOT Analysis	96
11.7 Sensata Technologies, Inc.	97
11.7.1 Company Overview	97
11.7.2 Product/Service Offering	97
11.7.3 Financial Overview	98
11.7.4 Strategy	99
11.7.5 SWOT Analysis	99
11.8 NGK Spark Plug	100
11.8.1 Company Overview	100
11.8.2 Product/Service Offering	100
11.8.3 Financial Overview	100
11.8.4 Key Developments	102
11.8.5 Strategy	102
11.9 Infineon Technologies	103
11.9.1 Company Overview	103
11.9.2 Product/Service Offering	103
11.9.3 Financial Overview	104
11.9.4 Strategy	105
11.9.5 SWOT Analysis	105
11.10 MBE Systems	106
11.10.1 Company Overview	106
11.10.2 Product/Service Offering	106
11.10.3 Financial Overview	106

## 12 List Of Tables

TABLE 1 GLOBAL AUTOMOTIVE ENGINE MANAGEMENT SYSTEM MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 31

TABLE 2 GLOBAL AUTOMOTIVE ENGINE MANAGEMENT SYSTEM MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 34

TABLE 3 GLOBAL AUTOMOTIVE ENGINE MANAGEMENT SYSTEM MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 37

TABLE 4 GLOBAL AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY REGION, 2020-2027 (USD BILLION) 39

TABLE 5 NORTH AMERICA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COUNTRY, 2020-2027 (USD BILLION) 41

TABLE 6 NORTH AMERICA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 41

TABLE 7 NORTH AMERICA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 42

TABLE 8 NORTH AMERICA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 42

TABLE 9 US AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 43

TABLE 10 US AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 43

TABLE 11 US AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 44

TABLE 12 CANADA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 45

TABLE 13 CANADA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 45

TABLE 14 CANADA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 46

TABLE 15 EUROPE AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COUNTRY, 2020-2027 (USD BILLION) 48

TABLE 16 EUROPE AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 48

TABLE 17 EUROPE AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 49

TABLE 18 EUROPE AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 49

TABLE 19 GERMANY AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 50

TABLE 20 GERMANY AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 50

TABLE 21 GERMANY AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 51

TABLE 22 UK AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 51

TABLE 23 UK AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 52

TABLE 24 UK AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 52

TABLE 25 ITALY AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 53

TABLE 26 ITALY AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 53

TABLE 27 ITALY AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 54

TABLE 28 FRANCE AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 54

TABLE 29 FRANCE AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 55

TABLE 30 FRANCE AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027

(USD BILLION) 55

TABLE 31 REST OF EUROPE AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 56

TABLE 32 REST OF EUROPE AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 56

TABLE 33 REST OF EUROPE AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 57

TABLE 34 ASIA-PACIFIC AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COUNTRY, 2020-2027 (USD BILLION) 59

TABLE 35 ASIA-PACIFIC AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 59

TABLE 36 ASIA-PACIFIC AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 60

TABLE 37 ASIA-PACIFIC AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 60

TABLE 38 CHINA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 61

TABLE 39 CHINA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 61

TABLE 40 CHINA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 62

TABLE 41 JAPAN AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 63

TABLE 42 JAPAN AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 64

TABLE 43 JAPAN AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 64

TABLE 44 JAPAN AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 65

TABLE 45 JAPAN AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 66

TABLE 46 JAPAN AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 66

TABLE 47 REST OF ASIA-PACIFIC AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 67

TABLE 48 REST OF ASIA-PACIFIC AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 67

TABLE 49 REST OF ASIA-PACIFIC AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 68

TABLE 50 REST OF THE WORLD AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COUNTRY, 2020-2027 (USD BILLION) 70

TABLE 51 REST OF THE WORLD AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 70

TABLE 52 REST OF THE WORLD AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 71

TABLE 53 REST OF THE WORLD AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 71

TABLE 54 SOUTH AMERICA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 72

TABLE 55 SOUTH AMERICA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 72

TABLE 56 SOUTH AMERICA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 73

TABLE 57 MIDDLE EAST & AFRICA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COMPONENT, 2020-2027 (USD BILLION) 73

TABLE 58 MIDDLE EAST & AFRICA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION) 74

TABLE 59 MIDDLE EAST & AFRICA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION) 74



FIGURE 1 RESEARCH PROCESS OF MRFR	18
FIGURE 2 TOP DOWN & BOTTOM UP APPROACH	20
FIGURE 3 MARKET DYNAMICS	22
FIGURE 4 SALES OF NEW VEHICLES, 2020-2027	23
FIGURE 5 VALUE CHAIN ANALYSIS	26
FIGURE 6 PORTER'S FIVE FORCES ANALYSIS	27
FIGURE 7 GLOBAL AUTOMOTIVE ENGINE MANAGEMENT SYSTEM MARKET SHARE, BY COMPONENT, 2020 (%)	30
FIGURE 8 GLOBAL AUTOMOTIVE ENGINE MANAGEMENT SYSTEM MARKET, BY COMPONENT, 2020-2027 (USD BILLION)	31
FIGURE 9 GLOBAL AUTOMOTIVE ENGINE MANAGEMENT SYSTEM MARKET SHARE, BY ENGINE TYPE, 2020 (%)	33
FIGURE 10 GLOBAL AUTOMOTIVE ENGINE MANAGEMENT SYSTEM MARKET, BY ENGINE TYPE, 2020-2027 (USD BILLION)	34
FIGURE 11 GLOBAL AUTOMOTIVE ENGINE MANAGEMENT SYSTEM MARKET SHARE, BY VEHICLE TYPE, 2020 (%)	36
FIGURE 12 GLOBAL AUTOMOTIVE ENGINE MANAGEMENT SYSTEM MARKET, BY VEHICLE TYPE, 2020-2027 (USD BILLION)	36
FIGURE 13 GLOBAL AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET SHARE (%), 2020	38
FIGURE 14 GLOBAL AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY REGION, 2020-2027 (USD BILLION)	39
FIGURE 15 NORTH AMERICA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET SHARE (%), 2020	40
FIGURE 16 NORTH AMERICA AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COUNTRY, 2020-2027 (USD BILLION)	40
FIGURE 17 EUROPE AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET SHARE (%), 2020	47
FIGURE 18 EUROPE AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COUNTRY, 2020-2027 (USD BILLION)	47
FIGURE 19 ASIA-PACIFIC AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET SHARE (%), 2020	58
FIGURE 20 ASIA-PACIFIC AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COUNTRY, 2020-2027 (USD BILLION)	58
FIGURE 21 REST OF THE WORLD AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET SHARE (%), 2020	69
FIGURE 22 REST OF THE WORLD AUTOMOTIVE ENGINE MANAGEMENT SYSTEMS MARKET, BY COUNTRY, 2020-2027 (USD BILLION)	69
FIGURE 23 COMPETITOR BENCHMARKING	76
FIGURE 24 CONTINENTAL AG: RECENT FINANCIALS	78
FIGURE 25 CONTINENTAL AG: GEOGRAPHIC REVENUE, 2020 (%)	78
FIGURE 26 CONTINENTAL AG: SEGMENTAL REVENUE, 2020 (%)	79
FIGURE 27 CONTINENTAL AG: SWOT ANALYSIS	80
FIGURE 28 DENSO CORPORATION: RECENT FINANCIALS	82
FIGURE 29 DENSO CORPORATION: GEOGRAPHIC REVENUE, 2020 (%)	82
FIGURE 30 DENSO CORPORATION: SEGMENTAL REVENUE, 2020 (%)	83
FIGURE 31 DENSO CORPORATION: SWOT ANALYSIS	84
FIGURE 32 DELPHI AUTOMOTIVE: RECENT FINANCIALS	86
FIGURE 33 DELPHI AUTOMOTIVE: SEGMENTAL REVENUE, 2020 (%)	86
FIGURE 34 DELPHI AUTOMOTIVE: GEOGRAPHIC REVENUE, 2020 (%)	87
FIGURE 35 DELPHI AUTOMOTIVE: SWOT ANALYSIS	87
FIGURE 36 ROBERT BOSCH: RECENT FINANCIALS	88
FIGURE 37 ROBERT BOSCH: GEOGRAPHIC REVENUE, 2020 (%)	89
FIGURE 38 ROBERT BOSCH: SEGMENTAL REVENUE, 2020 (%)	89
FIGURE 39 ROBERT BOSCH: SWOT ANALYSIS	90
FIGURE 40 HELLA KGAA HUECK: RECENT FINANCIALS	91
FIGURE 41 HELLA KGAA HUECK: SEGMENTAL REVENUE, 2020 (%)	92

FIGURE 42 HELLA KGAA HUECK: GEOGRAPHIC REVENUE, 2020 (%)	92
FIGURE 43 HELLA KGAA HUECK: SWOT ANALYSIS	93
FIGURE 44 HITACHI AUTOMOTIVE SYSTEMS: RECENT FINANCIALS	94
FIGURE 45 HITACHI AUTOMOTIVE SYSTEMS: SEGMENTAL REVENUE, 2020 (%)	95
FIGURE 46 HITACHI AUTOMOTIVE SYSTEM: SWOT ANALYSIS	96
FIGURE 47 SENSATA TECHNOLOGIES: RECENT FINANCIALS	98
FIGURE 48 SENSATA TECHNOLOGIES: GEOGRAPHIC REVENUE, 2020 (%)	98
FIGURE 49 SENSATA TECHNOLOGIES: SEGMENTAL REVENUE, 2020 (%)	99
FIGURE 50 SENSATA TECHNOLOGIESL: SWOT ANALYSIS	99
FIGURE 51 NGK SPARK PLUG: RECENT FINANCIALS	100
FIGURE 52 NGK SPARK PLUG: GEOGRAPHIC REVENUE, 2020 (%)	101
FIGURE 53 NGK SPARK PLUG: SEGMENTAL REVENUE, 2020 (%)	101
FIGURE 54 INFINEON TECHNOLOGY: RECENT FINANCIALS	104
FIGURE 55 INFINEON TECHNOLOGY: SEGMENTAL REVENUE, 2020 (%)	104
FIGURE 56 INFINEON TECHNOLOGY: GEOGRAPHIC REVENUE, 2020 (%)	105
FIGURE 57 INFINEON TECHNOLOGY: SWOT ANALYSIS	105
FIGURE 58 MBE SYSTEM: SWOT ANALYSIS	107