

# Automotive Ignition System Market by Components (Ignition Switch, Spark Plug, Glow Plug, Ignition Coil, Ignition Control Module, Crankshaft & Camshaft Position Sensor), Ignition Type (Coil on Plug & Simultaneous) and Region - Industry Trends & Forecast to 2019

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### **Abstracts**

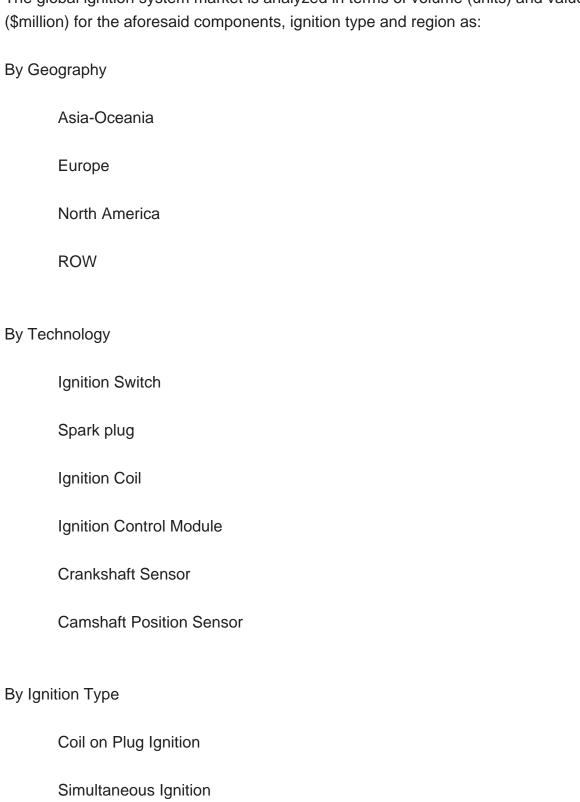
Internal combustion engines play a dominant role in personal mobility and transportation. Even a slight improvement will translate into considerable reductions in pollutant emissions and impact on the environment. The two major types of internal combustion engines are the gasoline and diesel. The former relies on an ignition source (spark plug) to start combustion, the latter depends on compression. The spark ignited gasoline engine has a widespread use and has been subject to continuous, sophisticated improvements. The most important contribution for lower fuel consumption lies in the spark ignition engine sector, owing to the outstanding thermodynamic potential which the direct fuel injection provides. Laser ignition, or laser-induced ignition, is the process of starting combustion by the stimulus of a laser light source. A laser based ignition source, i.e. replacing the spark plug by the focused beam of a pulsed laser, has been envisaged for some time. The time scale of a laser-induced spark is by several orders of magnitude smaller than the time scales of turbulence and chemical kinetics. In, the importance of the spark time scale on the flame kernel size and NOx production is identified. Laser ignition, microwave ignition, high frequency ignition are among the concepts widely investigated for future applications.

The protection of the resources and the reduction of the CO2 emissions with the aim to limit the greenhouse effect require a lowering of the fuel consumption of motor vehicles. Great importance for the reduction lies upon the driving source.



### SCOPE OF THE REPORT

The global ignition system market is analyzed in terms of volume (units) and value





### **Contents**

### 1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 MARKET SCOPE
  - 1.3.1 MARKETS COVERED
  - 1.3.2 YEARS CONSIDERED IN THE REPORT
- 1.4 CURRENCY & PRICING
- 1.5 PACKAGE SIZE
- 1.6 LIMITATIONS
- 1.7 STAKEHOLDERS

### **2 RESEARCH METHODOLOGY**

- 2.1 RESEARCH DATA
- 2.2 SECONDARY DATA
  - 2.2.1 KEY SECONDARY SOURCES
  - 2.2.2 KEY DATA FROM SECONDARY SOURCES
- 2.3 PRIMARY DATA
  - 2.3.1 SAMPLING TECHNIQUES & DATA COLLECTION METHODS
  - 2.3.2 PRIMARY PARTICIPANTS
    - 2.3.2.1 KEY INDUSTRY INSIGHTS
- 2.4 FACTOR ANALYSIS
  - 2.4.1 INTRODUCTION
  - 2.4.2 DEMAND SIDE ANALYSIS
  - 2.4.2.1 IMPACT OF GDP ON COMMERCIAL VEHICLE SALES
  - 2.4.2.2 URBANIZATION VS. PASSENGER CAR PER 1000 PEOPLE
  - 2.4.2.3 INFRASTRUCTURE: ROADWAYS
  - 2.4.3 SUPPLY SIDE ANALYSIS
  - 2.4.3.1 VEHICLE PRODUCTION INCREASING IN DEVELOPING COUNTRIES
  - 2.4.4 TECHNOLOGICAL ADVANCEMENTS
  - 2.4.5 INFLUENCE OF OTHER FACTORS
- 2.5 MARKET SIZE ESTIMATION

### **3 EXECUTIVE SUMMARY**

## **4 PREMIUM INSIGHTS**



- 4.1 AUTOMOTIVE IGNITION SYSTEM MARKET
- 4.2 AUTOMOTIVE IGNITION SYSTEM MARKET, BY VEHICLE TYPE (2019)
- 4.3 OPPORTUNITIES IN THE AUTOMOTIVE IGNITION SYSTEM MARKET
- 4.4 AUTOMOTIVE IGNITION SYSTEM MARKET, BY IGNITION TYPE, 2014 -2019 (\$MILLION)
- 4.5 AUTOMOTIVE IGNITION SYSTEM MARKET: RAPIDLY GROWING REGIONS
- 4.6 AUTOMOTIVE IGNITION SYSTEM MARKET, BY KEY PLAYERS (2013)

### **5 MARKET OVERVIEW**

- 5.1 INTRODUCTION
- 5.2 MARKET SEGMENTATION
  - 5.2.1 BY ENGINE TYPE
  - 5.2.2 BY IGNITION TYPE
  - 5.2.3 BY REGION
- 5.3 MARKET DYNAMICS
  - 5.3.1 DRIVERS
- 5.3.1.1 Government regulations and mandates pertaining to fuel efficiency and emissions
  - 5.3.1.2 Increasing number of vehicles
  - 5.3.1.3 Improved vehicle performance
  - 5.3.1.4 Major automobile manufacturers partnering with domestic players
  - 5.3.2 RESTRAINT
    - 5.3.2.1 Shifting focus towards electric vehicles
  - 5.3.3 OPPORTUNITIES
    - 5.3.3.1 New and improved ignition systems
    - 5.3.3.2 Benefits for related markets
  - 5.3.4 CHALLENGES
- 5.3.4.1 Maintaining a balance between low cost and high-performance ignition systems
- 5.4 BURNING ISSUES
- 5.4.1 FLUCTUATING DEMAND FOR GASOLINE AND DIESEL ENGINES IN THE PASSENGER CAR SEGMENT

### **6 INDUSTRY TRENDS**

- 6.1 INTRODUCTION
- 6.2 VALUE CHAIN ANALYSIS



### 6.3 PORTER'S FIVE FORCES ANALYSIS

- 6.3.1 THREAT OF NEW ENTRANTS
  - 6.3.1.1 Loyalty of customers towards established brands
  - 6.3.1.2 Well-established players
- 6.3.2 THREAT OF SUBSTITUTES
  - 6.3.2.1 Increasing penetration of electric vehicles
- 6.3.3 BARGAINING POWER OF BUYERS
  - 6.3.3.1 Long-term supply contracts
  - 6.3.3.2 High switching cost
- 6.3.4 BARGAINING POWER OF SUPPLIERS
  - 6.3.4.1 Well-established players with excellent supply and distribution network
  - 6.3.4.2 Technological expertise
- 6.3.5 INTENSITY OF COMPETITIVE RIVALRY
- **6.4 PEST ANALYSIS** 
  - 6.4.1 POLITICAL FACTORS
  - 6.4.2 ECONOMIC FACTORS
  - 6.4.3 SOCIAL FACTORS
  - 6.4.4 TECHNOLOGICAL FACTORS

# 7 AUTOMOTIVE IGNITION SYSTEM COMPONENTS MARKET, BY ENGINE & VEHICLE TYPE

### 7.1 INTRODUCTION

- 7.1.1 MARKET ESTIMATES, BY ENGINE TYPE
  - 7.1.1.1 Spark ignition market estimates
  - 7.1.1.2 Compression ignition market estimates
- 7.1.2 GASOLINE ENGINE TYPE, BY REGION
- 7.1.3 DIESEL ENGINE TYPE, BY REGION
- 7.2 MARKET ESTIMATES, BY VEHICLE TYPE
- 7.2.1 AUTOMOTIVE IGNITION SYSTEM COMPONENT MARKET, BY GASOLINE VEHICLE
  - 7.2.1.1 Gasoline passenger car ignition system market, by component
  - 7.2.1.2 Gasoline LCV ignition system market, by component
- 7.2.2 AUTOMOTIVE IGNITION SYSTEM COMPONENT MARKET, BY DIESEL VEHICLE
  - 7.2.2.1 Diesel passenger car ignition system market, by component
  - 7.2.2.2 Diesel LCV ignition system market, by component
  - 7.2.2.3 Diesel HCV ignition system market, by component



### **8 AUTOMOTIVE IGNITION SYSTEM MARKET, BY IGNITION TYPE**

- 8.1 INTRODUCTION
- 8.2 COIL-ON-PLUG IGNITION SYSTEM
  - 8.2.1 NORTH AMERICA
  - **8.2.2 EUROPE**
  - 8.2.3 ASIA-OCEANIA
  - 8.2.4 ROW
- 8.3 SIMULTANEOUS IGNITION SYSTEM
  - 8.3.1 NORTH AMERICA
  - **8.3.2 EUROPE**
  - 8.3.3 ASIA-OCEANIA
  - 8.3.4 ROW
- 8.4 COMPRESSION IGNITION
  - 8.4.1 NORTH AMERICA
  - **8.4.2 EUROPE**
  - 8.4.3 ASIA-OCEANIA
  - 8.4.4 ROW

### 9 AUTOMOTIVE IGNITION SYSTEM MARKET, BY REGION

- 9.1 INTRODUCTION
- 9.2 ASIA-OCEANIA
- 9.3 EUROPE
- 9.4 NORTH AMERICA
- 9.5 REST OF WORLD (ROW)

### 10 COMPETITIVE LANDSCAPE

- 10.1 OVERVIEW
- 10.2 MARKET SHARE ANALYSIS, AUTOMOTIVE IGNITION SYSTEM MARKET
- 10.3 COMPETITIVE SITUATION & TRENDS
- 10.4 BATTLE FOR MARKET SHARE: NEW PRODUCT DEVELOPMENT/LAUNCH WAS THE KEY STRATEGY
- 10.5 NEW PRODUCT DEVELOPMENTS/LAUNCHES
- 10.6 SUPPLY CONTRACTS & COLLABORATIONS
- 10.7 EXPANSIONS
- 10.8 MERGERS & ACQUISITIONS



### 11 COMPANY PROFILES

- 11.1 INTRODUCTION (Overview, Financials, Products & Services, Strategy, and Developments)
- 11.2 ROBERT BOSCH GMBH
- 11.3 DENSO CORPORATION
- 11.4 BORGWARNER INC.
- 11.5 MITSUBISHI ELECTRIC CORPORATION
- 11.6 FEDERAL-MOGUL CORPORATION
- 11.7 DELPHI AUTOMOTIVE PLC
- 11.8 DIAMOND ELECTRIC MFG. CO. LTD.
- 11.9 NGK SPARK PLUG CO., LTD
- 11.1 VALEO S.A.
- 11.11 HITACHI LTD. (Details on overview, financials, product & services, strategy, and developments might not be captured in case of unlisted companies.)

### 12 APPENDIX

- 12.1 DISCUSSION GUIDE
- 12.2 INTRODUCING RT: REAL TIME MARKET INTELLIGENCE
- 12.3 AVAILABLE CUSTOMIZATIONS
- 12.4 RELATED REPORTS



### **List Of Tables**

### LIST OF TABLES

Table 1 MICRO AND MACRO FACTOR ANALYSIS

Table 2 OVERVIEW OF EMISSION AND FUEL ECONOMY REGULATION SPECIFICATIONS FOR PASSENGER CARS

Table 3 IMPACT OF DRIVERS ON THE IGNITION SYSTEM MARKET

Table 4 IMPACT OF RESTRAINTS ON THE IGNITION SYSTEM MARKET

Table 5 IMPACT OF OPPORTUNITIES ON THE IGNITION SYSTEM MARKET

Table 6 IMPACT OF CHALLENGES ON THE IGNITION SYSTEM MARKET

Table 7 AUTOMOTIVE SPARK IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)

Table 8 AUTOMOTIVE SPARK IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 9 AUTOMOTIVE COMPRESSION IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)

Table 10 AUTOMOTIVE COMPRESSION IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 11 ASIA-OCEANIA AUTOMOTIVE SPARK IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)

Table 12 ASIA-OCEANIA: AUTOMOTIVE SPARK IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 13 EUROPE: AUTOMOTIVE SPARK IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)

Table 14 EUROPE: AUTOMOTIVE SPARK IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 15 NORTH AMERICA: AUTOMOTIVE SPARK IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)

Table 16 NORTH AMERICA: AUTOMOTIVE SPARK IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 17 ROW: AUTOMOTIVE SPARK IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)

Table 18 ROW: AUTOMOTIVE SPARK IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 19 ASIA-OCEANIA: AUTOMOTIVE COMPRESSION IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)
Table 20 ASIA-OCEANIA: AUTOMOTIVE COMPRESSION IGNITION ENGINE

SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)



Table 21 EUROPE: AUTOMOTIVE COMPRESSION IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)

Table 22 EUROPE: AUTOMOTIVE COMPRESSION IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 23 NORTH AMERICA: AUTOMOTIVE COMPRESSION IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)

Table 24 NORTH AMERICA: AUTOMOTIVE COMPRESSION IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 25 ROW: AUTOMOTIVE COMPRESSION IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)

Table 26 ROW: AUTOMOTIVE COMPRESSION IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 27 PASSENGER CAR SPARK IGNITION SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNIT)

Table 28 PASSENGER CAR SPARK IGNITION SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 29 LCV SPARK IGNITION SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)

Table 30 LCV SPARK IGNITION SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 31 GLOBAL PASSENGER CAR COMPRESSION IGNITION SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)

Table 32 GLOBAL PASSENGER CAR COMPRESSION IGNITION SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 33 LCV COMPRESSION IGNITION SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)

Table 34 LCV COMPRESSION IGNITION SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 35 HCV COMPRESSION IGNITION SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 ('000 UNITS)

Table 36 HCV COMPRESSION IGNITION SYSTEM MARKET, BY COMPONENT TYPE, 2012-2019 (\$MILLION)

Table 37 AUTOMOTIVE IGNITION SYSTEMS MARKET SIZE, BY IGNITION TYPE, 2012-2019 ('000 UNITS)

Table 38 AUTOMOTIVE IGNITION SYSTEMS MARKET SIZE, BY IGNITION TYPE, 2012-2019 (\$MILLION)

Table 39 COIL-ON-PLUG: IGNITION SYSTEMS MARKET SIZE, BY REGION, 2012-2019 ('000 UNITS)

Table 40 COIL-ON-PLUG: IGNITION SYSTEMS MARKET SIZE, BY REGION,



2012-2019 (\$MILLION)

Table 41 NORTH AMERICA: COIL-ON-PLUG IGNITION SYSTEMS MARKET SIZE, BY COUNTRY, 2012-2019 ('000 UNITS)

Table 42 NORTH AMERICA: COIL-ON-PLUG IGNITION SYSTEMS MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 43 EUROPE: COIL-ON-PLUG IGNITION SYSTEMS MARKET SIZE, BY COUNTRY, 2012-2019 ('000 UNITS)

Table 44 EUROPE: COIL-ON-PLUG IGNITION SYSTEMS MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 45 ASIA-OCEANIA: COIL-ON-PLUG IGNITION SYSTEMS MARKET SIZE, BY COUNTRY, 2012-2019 ('000 UNITS)

Table 46 ASIA-OCEANIA: COIL-ON-PLUG IGNITION SYSTEMS MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 47 ROW: COIL-ON-PLUG IGNITION SYSTEMS MARKET SIZE, BY COUNTRY, 2012-2019 ('000 UNITS)

Table 48 ROW: COIL-ON-PLUG IGNITION SYSTEMS MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 49 SIMULTANEOUS: IGNITION SYSTEMS MARKET SIZE, BY REGION, 2012-2019 ('000 UNITS)

Table 50 SIMULTANEOUS: IGNITION SYSTEM MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

Table 51 NORTH AMERICA: SIMULTANEOUS IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 ('000 UNITS)

Table 52 NORTH AMERICA: SIMULTANEOUS IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 53 EUROPE: SIMULTANEOUS IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 ('000 UNITS)

Table 54 EUROPE: SIMULTANEOUS IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 55 ASIA-OCEANIA: SIMULTANEOUS IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 ('000 UNITS)

Table 56 ASIA-OCEANIA: SIMULTANEOUS IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 57 ROW: SIMULTANEOUS IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 ('000 UNITS)

Table 58 ROW: SIMULTANEOUS IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 59 COMPRESSION: IGNITION SYSTEM MARKET SIZE, BY REGION, 2012-2019 ('000 UNITS)



Table 60 COMPRESSION: IGNITION SYSTEM MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

Table 61 NORTH AMERICA: COMPRESSION IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 ('000 UNITS)

Table 62 NORTH AMERICA: COMPRESSION IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 63 EUROPE: COMPRESSION IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 ('000 UNITS)

Table 64 EUROPE: COMPRESSION IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 65 ASIA-OCEANIA: COMPRESSION IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 ('000 UNITS)

Table 66 ASIA-OCEANIA: COMPRESSION IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 67 ROW: COMPRESSION IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 ('000 UNITS)

Table 68 ROW: COMPRESSION IGNITION SYSTEM MARKET SIZE, BY COUNTRY, 2012-2019 (\$MILLION)

Table 69 GLOBAL AUTOMOTIVE IGNITION SYSTEM MARKET SIZE, BY REGION, 2012-2019 ('000 UNITS)

Table 70 GLOBAL AUTOMOTIVE IGNITION SYSTEM MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

Table 71 ASIA-OCEANIA AUTOMOTIVE IGNITION SYSTEM MARKET SIZE, BY ENGINE TYPE, 2012-2019 ('000 UNITS)

Table 72 ASIA-OCEANIA AUTOMOTIVE IGNITION SYSTEM MARKET SIZE, BY ENGINE TYPE, 2012-2019 (\$MILLION)

Table 73 EUROPEAN AUTOMOTIVE IGNITION SYSTEM MARKET SIZE, BY ENGINE TYPE, 2012-2019 ('000 UNITS)

Table 74 EUROPEAN AUTOMOTIVE IGNITION SYSTEM MARKET SIZE, BY ENGINE TYPE, 2012-2019 (\$MILLION)

Table 75 NORTH AMERICAN AUTOMOTIVE IGNITION SYSTEM MARKET SIZE, BY ENGINE TYPE, 2012-2019 ('000 UNITS)

Table 76 NORTH AMERICAN AUTOMOTIVE IGNITION SYSTEM MARKET SIZE, BY ENGINE TYPE, 2012-2019 (\$MILLION)

Table 77 ROW AUTOMOTIVE IGNITION SYSTEM MARKET SIZE, BY ENGINE TYPE, 2012-2019 ('000 UNITS)

Table 78 ROW AUTOMOTIVE IGNITION SYSTEM MARKET SIZE, BY ENGINE TYPE, 2012-2019 (\$MILLION)

Table 79 NEW PRODUCT DEVELOPMENTS/LAUNCHES, 2013-2014



Table 80 SUPPLY CONTRACTS & AGREEMENTS, 2013–2014
Table 81 EXPANSIONS, 2013-2014
Table 82 MERGERS & ACQUISITIONS, 2012



# **List Of Figures**

### LIST OF FIGURES

Figure 1 AUTOMOTIVE IGNITION SYSTEM: MARKET SEGMENTATION

Figure 2 RESEARCH DESIGN

Figure 3 RESEARCH METHODOLOGY MODEL

Figure 4 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE,

**DESIGNATION & REGION** 

Figure 5 GROSS DOMESTIC PRODUCT (GDP) VS COMMERCIAL VEHICLE PRODUCTION

Figure 6 URBANIZATION VS. PASSENGER CARS PER 1000 PEOPLE

Figure 7 ROAD NETWORK VS PASSENGER CAR SALES

Figure 8 VEHICLE PRODUCTION, 2009-2013

Figure 9 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH Figure 10 AUTOMOTIVE IGNITION SYSTEM COMPONENTS MARKET SNAPSHOT (2014 VS 2019 IN \$MILLION): MARKET FOR ECU IS PROJECTED TO GROW THE

MOST IN THE NEXT FIVE YEARS

Figure 11 AUTOMOTIVE IGNITION SYSTEM MARKET SHARE (VOLUME), BY REGION, 2014

Figure 12 ASIA-OCEANIA IS THE FASTEST GROWING REGION, BY VALUE (\$MILLION)

Figure 13 COMPRESSION-IGNITION SYSTEMS ARE ESTIMATED TO GROW AT THE HIGHEST CAGR OF 10.45% IN TERMS OF MARKET VALUE (\$MILLION) OVER THE NEXT FIVE YEARS

Figure 14 AUTOMOTIVE SPARK IGNITION MARKET SHARE, BY COMPONENT, (\$MILLION) (2014 TO 2019)

Figure 15 AUTOMOTIVE COMPRESSION IGNITION MARKET SHARE, BY COMPONENT, (\$MILLION) (2014 TO 2019)

Figure 16 PASSENGER CAR SEGMENT TO BE THE KEY DRIVER FOR THE AUTOMOTIVE IGNITION SYSTEM MARKET IN ASIA-OCEANIA

Figure 17 COMPRESSION IGNITION SYSTEM MARKET EMERGING ON A GLOBAL SCALE

Figure 18 COMPRESSION IGNITION SYSTEM TO GROW AT THE FASTEST RATE OVER THE NEXT FIVE YEARS

Figure 19 ASIA-OCEANIA AND COMPRESSION IGNITION SYSTEM TO BE MAJOR CONTRIBUTORS TO THE GROWTH OF THE AUTOMOTIVE IGNITION SYSTEM MARKET

Figure 20 TOP FIVE MARKET PLAYERS ACCOUNT FOR 80.8% OF MARKET SHARE



Figure 21 MARKET SEGMENTATION BY ENGINE TYPE

Figure 22 MARKET SEGMENTATION, BY IGNITION TYPE

Figure 23 MARKET SEGMENTATION, BY REGION

Figure 24 AUTOMOTIVE IGNITION SYSTEM MARKET DYNAMICS

Figure 25 GLOBAL VEHICLE PRODUCTION AND VEHICLE PARC (2012-2019)

Figure 26 ELECTRIC VEHICLE (EV) SALES, BY REGION, 2012-2014 ('000 UNITS)

Figure 27 GLOBAL PASSENGER CARS GASOLINE VS DIESEL VEHICLE

PRODUCTION ('000 UNITS)

Figure 28 AUTOMOTIVE IGNITION SYSTEM: VALUE CHAIN

Figure 29 PORTER'S FIVE FORCES ANALYSIS

Figure 30 AUTOMOTIVE SPARK IGNITION ENGINE SYSTEM MARKET, BY

**COMPONENT TYPE** 

Figure 31 AUTOMOTIVE COMPRESSION IGNITION ENGINE SYSTEM MARKET, BY COMPONENT TYPE

Figure 32 ECU IS THE HIGHEST VALUE GENERATING COMPONENT IN THE SPARK IGNITION ENGINE SYSTEM COMPONENTS MARKET FROM 2014 TO 2019 Figure 33 THE MARKET SHARE BY VALUE FOR SPARK PLUGS IS PROJECTED TO BE 13% BY 2019

Figure 34 ECU MARKET SIZE IN TERMS OF VALUE IS PROJECTED TO GROW AT THE HIGHEST CAGR OF 9.41%

Figure 35 ECU ACCOUNTS FOR 52% OF THE MARKET SHARE IN TERMS OF VALUE IN 2014

Figure 36 DIESEL ECU IS THE FASTEST GROWING MARKET, ACCOUNTING FOR 68% OF THE MARKET SHARE IN TERMS OF VALUE IN 2014

Figure 37 MARKET SHARE IN TERMS OF VALUE FOR GLOW PLUGS IS 13% IN 2014 & 11% IN 2019

Figure 38 THE MARKET SHARE IN TERMS OF VALUE OF IGNITION SWITCH REMAINS CONSTANT AT 4% DURING 2014–2019

Figure 39 ECU SET TO WITNESS AN INCREASE OF 3% IN MARKET SHARE IN TERMS OF VALUE FROM 2014 TO 2019

Figure 40 GASOLINE PASSENGER CAR IGNITION SYSTEM COMPONENTS DOMINATES THE MARKET IN 2014

Figure 41 THE MARKET SHARE FOR FUSIBLE LINK IS LOW, BUT IS GROWING AT A HIGH RATE OF 9.59%

Figure 42 GLOW PLUG IS PROJECTED TO GROW AT THE SECOND HIGHEST RATE OF 9.72% AFTER ECU

Figure 43 THE MARKET GROWTH OF ECU IS COMPARATIVELY LOW IN THE HCV SEGMENT

Figure 44 COMPRESSION IGNITION SYSTEM IS PROJECTED TO BE GROWING AT



THE FASTEST CAGR OF 10.45% OVER 2014-2019

Figure 45 ASIA-OCEANIA LEADING THE COP IGNITION SYSTEM MARKET FROM 2014-2019 (\$MILLION)

Figure 46 ASIA-OCEANIA TO BE THE FASTEST GROWING SIMULTANEOUS IGNITION SYSTEM MARKET THROUGH 2014-2019 (\$MILLION)

Figure 47 NORTH AMERICA TO SHOW THE FASTEST GROWTH IN COMPRESSION IGNITION SYSTEMS THROUGH 2014-2019 (\$MILLION)

Figure 48 CHINA PROJECTED TO LEAD THE AUTOMOTIVE IGNITION SYSTEM MARKET DURING 2014-2019, (\$MILLION)

Figure 49 ASIA-OCEANIA MARKET SNAPSHOT (2014): LARGEST MARKET FOR AUTOMOTIVE IGNITION SYSTEM

Figure 50 NORTH AMERICA MARKET SNAPSHOT (2014): PROJECTED TO GROW AT SECOND HIGHEST CAGR FROM 2014–2019

Figure 51 COMPANIES ADOPTED NEW PRODUCT DEVELOPMENT AND LAUNCH AS THE KEY GROWTH STRATEGY IN THE PAST FIVE YEARS (2010-2014)
Figure 52 DENSO CORPORATION & FEDERAL MOGUL GREW AT THE HIGHEST RATE FROM 2010–2013

Figure 53 AUTOMOTIVE IGNITION SYSTEM MARKET SHARE, BY KEY PLAYER, 2013

Figure 54 MARKET EVOLUTION FRAMEWORK - SIGNIFICANT EXPANSIONS & NEW PRODUCT DEVELOPMENTS INCREASED THE GLOBAL MARKET SIZE BETWEEN 2012 & 2014

Figure 55 REGION-WISE REVENUE MIX OF TOP 5 PLAYERS

Figure 56 COMPETITIVE BENCHMARKING OF KEY PLAYERS (2008-2013): DENSO PROVED TO BE A FRONT RUNNER WITH ITS WIDE & ROBUST PRODUCT PORTFOLIO

Figure 57 ROBERT BOSCH GMBH: COMPANY SNAPSHOT

Figure 58 ROBERT BOSCH GMBH: SWOT ANALYSIS

Figure 59 DENSO CORPORATION: COMPANY SNAPSHOT

Figure 60 DENSO CORPORATION: SWOT ANALYSIS

Figure 61 BORGWARNER INC.: COMPANY SNAPSHOT

Figure 62 BORGWARNER INC.: SWOT ANALYSIS

Figure 63 MITSUBISHI ELECTRIC CORPORATION: COMPANY SNAPSHOT

Figure 64 FEDERAL-MOGUL CORPORATION: COMPANY SNAPSHOT

Figure 65 FEDERAL-MOGUL CORPORATION: SWOT ANALYSIS

Figure 66 DELPHI AUTOMOTIVE PLC: COMPANY SNAPSHOT

Figure 67 DIAMOND ELECTRIC MFG. CO. LTD.: COMPANY SNAPSHOT

Figure 68 NGK SPARK PLUG CO., LTD.: COMPANY SNAPSHOT

Figure 69 NGK SPARK PLUG CO. LTD.: SWOT ANALYSIS



Figure 70 VALEO S.A.: COMPANY SNAPSHOT Figure 71 HITACHI LTD.: COMPANY SNAPSHOT



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