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Gasoline Direct Injection (GDI) System Market by Component (Fuel Injectors, Fuel Pumps, Sensors, Electronic Control Units (ECU), and Others (Fuel Pressure Regulators and High Pressure Line)) and Vehicle Type (Passenger Cars and Commercial Vehicles) - Global Opportunity Analysis and Industry Forecast, 2014-2022

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Abstracts

Gasoline direct injection (GDI) system is an advanced and effective fuel injection technology, which offers multiple advantages such as higher thermal efficiency by stratified operation, increased compression ratio, decrease in fuel consumption & carbon dioxide emissions, lower heat losses, and others as compared to other gasoline fuel injection technologies. The environment protection agencies have drawn down the emission limits annually, owing to increase in air pollution. Furthermore, rise in price of the fuel necessitates improvements in engine efficiency. Since the engines with carburetor do not hold the air–fuel ratio near the stoichiometric mixture at different working conditions, catalytic converter cannot be used in these engines, therefore, these engines have high emission valves and low efficiency.

The GDI systems market is expected to witness high growth rate during the forecast period owing to engine downsizing, improved engine performance & thermal efficiency, high fuel efficiency, turbocharging, and significant reduction in emission. Passenger cars and commercial vehicles jointly account for the major share of GDI systems market revenue. Manufacturers such as BMW, Daimler, KIA Motors, Ford, and others incorporated GDI systems in most of their mid-range and high-end gasoline-driven vehicles. Leading market players focus on improvement in this technology, and invest significantly in R&D for the same. For instance, in 2016, Proton Holdings Berhad, a Malaysian carmaker, invested $136 million in R&D of a new range of engines in

collaboration with Ricardo Plc and Lotus Group.

The GDI systems is driven by increase in demand for fuel-efficient, high-performance, and low emission vehicles. In addition, the trend of reduction in vehicular emission due to stringent government regulations is expected to fuel the growth of GDI systems market. However, high cost of GDI system due to high pressure components and increase in penetration of electric vehicles impede the market growth. Furthermore, increase in particulate emissions such as NOx, which is difficult to curb post combustion, restrains the growth of the market. Development of advanced GDI system such as turbo GDI and integration of these systems in hybrid vehicles to improve propulsion are anticipated to provide lucrative opportunities for the stakeholders of this market such as system integrators, vehicle manufacturers, engine manufactures, and component providers.

The market segmentation is based on component, vehicle type, and geography. On the basis of component, the market is classified into fuel injectors, fuel pumps, sensors, electronic control units (ECUs), and others (fuel pressure regulators and high pressure line). By vehicle type, it is bifurcated into passenger cars and commercial vehicles. Geographically, the market is analyzed across North America (U.S., Canada, and Mexico), Europe (Germany, France, Italy, UK, and rest of Europe), Asia-Pacific (China, Australia, Japan, India, and rest of Asia-Pacific), and LAMEA (Latin America, Middle East, and Africa).

The key players profiled in the market include Magneti Marelli S.p.A (Italy), Robert Bosch GmbH (Germany), Delphi Automotive LLP (UK), Continental AG (Germany), DENSO CORPORATION (Japan), Eaton (Republic of Ireland), Stanadyne LLC (U.S.), Hitachi Automotive Systems, Ltd. (Japan), Keihin Corporation (Japan), and TI Automotive (U.S.).

KEY BENEFITS

The report includes an extensive analysis of the factors that drive as well as restrain the growth of the global automotive GDI systems market.

The market projections from 2014 to 2022 are included along with the affecting factors.

The report also provides quantitative as well as qualitative trends to assist the stakeholders to understand the situations that prevail in the market.

Extensive analysis by vehicle type helps to understand various types of vehicles that utilize GDI to cater to the power demands and control emissions.

Competitive intelligence highlights the business practices followed by leading market players across various geographies.

MARKET SEGMENTATION
BY COMPONENT

Fuel Injectors

Fuel Pumps

Sensors

Electronic Control Units

Others (Fuel Pressure Regulators and High Pressure Line)

BY VEHICLE TYPE

Passenger Cars

Commercial Vehicles

BY GEOGRAPHY

North America

U.S.

Canada

Mexico

Europe

Germany

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France

Italy

UK

Rest of Europe

Asia-Pacific

China

Australia

Japan

India

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

MARKET PLAYERS IN THE VALUE CHAIN

Magneti Marelli S.p.A

Robert Bosch GmbH

Delphi Automotive LLP

Continental AG

DENSO CORPORATION

Eaton

Stanadyne LLC

Hitachi Automotive Systems, Ltd.

Keihin Corporation

TI Automotive

Other players in value chain include (profiles not included in the report)

Renesas Electronics Corporation

Nostrum Energy

GP Performance

Infineon Technologies AG

Synerject LLC

Airtex Products

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Contents

CHAPTER: 1 INTRODUCTION

1.1. REPORT DESCRIPTION
1.2. KEY BENEFITS
1.3. KEY MARKET SEGMENTS
1.4. RESEARCH METHODOLOGY
  1.4.1. Secondary research
  1.4.2. Primary research
  1.4.3. Analyst tools and models

CHAPTER: 2 EXECUTIVE SUMMARY

2.1. CXO PERSPECTIVE

CHAPTER: 3 MARKET OVERVIEW

3.1. MARKET DEFINITION AND SCOPE
3.2. KEY FINDINGS
  3.2.1. Top winning strategies
  3.2.2. Top investment pockets
3.3.PORTERS FIVE FORCES ANALYSIS
  3.3.1. Bargaining power of suppliers
  3.3.2. Bargaining power of buyers
  3.3.3. Threat of substitutes
  3.3.4. Threat of new entrants
  3.3.5. Intensity of competitive rivalry
3.4. MARKET SHARE ANALYSIS, 2015
3.5. MARKET DYNAMICS
  3.5.1. Drivers
    3.5.1.1. Increase in demand for fuel efficient, high performance, and low emission vehicles
    3.5.1.2. Stringent government rules and regulation towards emission
  3.5.2. Restraints
    3.5.2.1. High cost of GDI system
    3.5.2.2. Increase in particulate emission
  3.5.3. Opportunities
    3.5.3.1. Development of advance GDI system

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3.5.3.2. Integration of GDI system in hybrid vehicles

CHAPTER: 4 GLOBAL GASOLINE DIRECT INJECTION MARKET, BY COMPONENT

4.1. OVERVIEW
4.1.1. Market size and forecast
4.2. FUEL INJECTORS
4.2.1. Key market trends
4.2.2. Growth factors and opportunities
4.2.3. Market size and forecast
4.3. FUEL PUMPS
4.3.1. Key market trends
4.3.2.Growth factors and opportunities
4.3.3. Market size and forecast
4.4.SENSORS
4.4.1. Key market trends
4.4.2. Growth factors and opportunities
4.4.3. Market size and forecast
4.5. ELECTRONIC CONTROL UNIT
4.5.1. Key market trends
4.5.2. Growth factors and opportunities
4.5.3. Market size and forecas
4.6. OTHERS (FUEL PRESSURE REGULATORS & HIGH PRESSURE LINE)
4.6.1. Key market trends
4.6.2. Growth factors and opportunities
4.6.3. Market size and forecast

CHAPTER: 5 GLOBAL GASOLINE DIRECT INJECTION MARKET, BY VEHICLE TYPE

5.1. OVERVIEW
5.1.1. Market size and forecast
5.2. PASSENGER CAR
5.2.1. Key market trends
5.2.2. Growth factors and opportunities
5.2.3. Market size and forecast
5.3. COMMERCIAL VEHICLE
5.3.1. Key market trends
5.3.2. Growth factors and opportunities

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5.3.3. Market size and forecast

CHAPTER: 6 GLOBAL GASOLINE DIRECT INJECTION MARKET, BY GEOGRAPHY

6.1. OVERVIEW
6.1.1. Market size and forecast
6.2. NORTH AMERICA
6.2.1. Key market trends
6.2.2. Growth factors and opportunities
6.2.3. Market size and forecast
6.2.4. U.S.
6.2.4.1. Market size and forecast
6.2.5. Canada
6.2.5.1. Market size and forecast
6.2.6. Mexico
6.2.6.1. Market size and forecast
6.3. EUROPE
6.3.1. Key market trends
6.3.2. Growth factors and opportunities
6.3.3. Market size and forecast
6.3.4. GERMANY
6.3.4.1. Market size and forecast
6.3.5. FRANCE
6.3.5.1. Market size and forecast
6.3.6. ITALY
6.3.6.1. Market size and forecast
6.3.7. UK
6.3.7.1. Market size and forecast
6.3.8. REST OF EUROPE
6.3.8.1. Market size and forecast
6.4. ASIA-PACIFIC
6.4.1. Key market trends
6.4.2. Growth factors and opportunities
6.4.3. Market size and forecast
6.4.4. CHINA
6.4.4.1. Market size and forecast
6.4.5. JAPAN
6.4.5.1. Market size and forecast
6.4.6. INDIA

6.4.6.1. Market size and forecast
6.4.7. AUSTRALIA
6.4.7.1. Market size and forecast
6.4.8. REST OF ASIA-PACIFIC
6.4.8.1. Market size and forecast
6.5. LAMEA (LATIN AMERICA MIDDLE-EAST AND AFRICA)
6.5.1. Key market trends
6.5.2. Growth factors and opportunities
6.5.3. Market size and forecast
6.5.4. LATIN AMERICA
6.5.4.1.Market size and forecast
6.5.5. MIDDLE EAST
6.5.5.1. Market size and forecast
6.5.6. AFRICA
6.5.6.1. Market size and forecast

CHAPTER: 7 RELATED INDUSTRY INSIGHTS

7.1 Global Alternative Fuel and Hybrid Vehicle Market
7.1.1. Executive Summary
7.2 Global Automotive Fuel Delivery and Injection System Market
7.2.1. Executive Summary
7.3 Global Biofuel Additives Market
7.3.1. Executive Summary
7.4 Global Anti-lock Braking System (ABS) Market
7.4.1. Executive Summary
7.5 Global Spark Plug Market
7.5.1. Executive Summary

CHAPTER: 8 COMPANY PROFILES

8.1. MAGNETI MARELLI S.P.A
8.1.1. Company overview
8.1.2. Operating business segments
8.1.3. Business performance
8.1.4. Key strategic moves and developments
8.2. ROBERT BOSCH GMBH
8.2.1. Company overview
8.2.2. Operating business segments

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8.2.3. Business performance
8.2.4. Key strategic moves and developments
8.3. DELPHI AUTOMOTIVE LLP
8.3.1. Company overview
8.3.2. Operating business segments
8.3.3. Business performance
8.3.4. Key strategic moves and developments
8.4. CONTINENTAL AG
8.4.1. Company overview
8.4.2. Operating business segments
8.4.3. Business performance
8.4.4. Key strategic moves and developments
8.5. DENSO CORPORATION
8.5.1. Company overview
8.5.2. Operating business segments
8.5.3. Business performance
8.5.4. Key strategic moves and developments
8.6. EATON
8.6.1. Company overview
8.6.2. Operating business segments
8.6.3. Business performance
8.6.4. Key strategic moves and developments
8.7. STANADYNE LLC
8.7.1. Company overview
8.7.2. Operating business segments
8.7.3. Key strategic moves and developments
8.8. HITACHI AUTOMOTIVE SYSTEMS, LTD.
8.8.1. Company overview
8.8.2. Operating business segments
8.8.3. Business performance
8.8.4. Key strategic moves and developments
8.9. KEIHIN CORPORATION
8.9.1. Company overview
8.9.2. Operating business segments
8.9.3. Business performance
8.9.4. Key strategic moves and developments
8.10. TI AUTOMOTIVE
8.10.1. Company overview
8.10.2. Operating business segments

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8.10.3. Key strategic moves and developments

Other players in the value chain include.

Renesas Electronics Corporation(Japan)

Nostrum Energy (U.S.)

GP Performance(Germany)

Infineon Technologies AG (Germany)

Synerject LLC (U.S.)

Profiles of these players are not included. The same will be included on request

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List Of Tables

LIST OF TABLES

TABLE 1.GASOLINE DIRECT INJECTION MARKET, BY COMPONENT, 2014-2022 ($MILLION)
TABLE 2.FUEL INJECTORS MARKET, BY VEHICLE TYPE, 2014-2022 ($MILLION)
TABLE 3.FUEL INJECTORS MARKET, BY GEOGRAPHY, 2014-2022 ($MILLION)
TABLE 4.FUEL PUMPS MARKET, BY VEHICLE TYPE, 2014-2022 ($MILLION)
TABLE 5.FUEL PUMPS MARKET, BY GEOGRAPHY, 2014-2022 ($MILLION)
TABLE 6.SENSORS MARKET, BY VEHICLE TYPE, 2014-2022 ($MILLION)
TABLE 7.SENSORS MARKET, BY GEOGRAPHY, 2014-2022 ($MILLION)
TABLE 8.ELECTRONIC CONTROL UNIT MARKET, BY VEHICLE TYPE, 2014-2022 ($MILLION)
TABLE 9.ELECTRONIC CONTROL UNIT MARKET, BY GEOGRAPHY, 2014-2022 ($MILLION)
TABLE 10.OTHER COMPONENT MARKET, BY VEHICLE TYPE, 2014-2022 ($MILLION)
TABLE 11.OTHER COMPONENT MARKET, BY GEOGRAPHY, 2014-2022 ($MILLION)
TABLE 12.GASOLINE DIRECT INJECTION MARKET, BY VEHICLE TYPE, 2014-2022 ($MILLION)
TABLE 13.PASSENGER CAR GDI, BY GEOGRAPHY, 2014-2022 ($MILLION)
TABLE 14.COMMERCIAL VEHICLE GDI, BY GEOGRAPHY, 2014-2022 ($MILLION)
TABLE 15.GASOLINE DIRECT INJECTION MARKET, BY GEOGRAPHY, 2014-2022 ($MILLION)
TABLE 16.NORTH AMERICA: GASOLINE DIRECT INJECTION MARKET, BY COMPONENT, 2014-2022 ($MILLION)
TABLE 17.NORTH AMERICA: GASOLINE DIRECT INJECTION MARKET, BY VEHICLE TYPE, 2014-2022 ($MILLION)
TABLE 18.NORTH AMERICA: GASOLINE DIRECT INJECTION MARKET, BY COUNTRY, 2014-2022 ($MILLION)
TABLE 19.EUROPE: GASOLINE DIRECT INJECTION MARKET, BY COMPONENT, 2014-2022 ($MILLION)
TABLE 20.EUROPE: GASOLINE DIRECT INJECTION MARKET, BY VEHICLE TYPE, 2014-2022 ($MILLION)
TABLE 21.EUROPE: GASOLINE DIRECT INJECTION MARKET, BY COUNTRY, 2014-2022 ($MILLION)
TABLE 22.ASIA-PACIFIC: GASOLINE DIRECT INJECTION MARKET, BY

COMPONENT, 2014-2022 ($MILLION)
TABLE 23.ASIA-PACIFIC: GASOLINE DIRECT INJECTION MARKET, BY VEHICLE TYPE, 2014-2022 ($MILLION)
TABLE 24.ASIA-PACIFIC: GASOLINE DIRECT INJECTION MARKET, BY COUNTRY, 2014-2022 ($MILLION)
TABLE 25.LAMEA: GASOLINE DIRECT INJECTION MARKET, BY COMPONENT, 2014-2022 ($MILLION)
TABLE 26.LAMEA: GASOLINE DIRECT INJECTION MARKET, BY VEHICLE TYPE, 2014-2022 ($MILLION)
TABLE 27.LAMEA: GASOLINE DIRECT INJECTION MARKET, BY COUNTRY, 2014-2022 ($MILLION)
TABLE 28.MAGNETI MARELLI: COMPANY SNAPSHOT
TABLE 29.MAGNETI MARELLI: OPERATING SEGMENTS
TABLE 30.BOSCH: COMPANY SNAPSHOT
TABLE 31.BOSCH: OPERATING SEGMENTS
TABLE 32.DELPHI: COMPANY SNAPSHOT
TABLE 33.DELPHI: OPERATING SEGMENTS
TABLE 34.CONTINENTAL: COMPANY SNAPSHOT
TABLE 35.CONTINENTAL: OPERATING SEGMENTS
TABLE 36.DENSO: COMPANY SNAPSHOT
TABLE 37.DENSO: OPERATING SEGMENTS
TABLE 38.EATON: COMPANY SNAPSHOT
TABLE 39.EATON: OPERATING SEGMENTS
TABLE 40.STANADYNE: COMPANY SNAPSHOT
TABLE 41.STANADYNE: OPERATING SEGMENTS
TABLE 42.HITACHI: COMPANY SNAPSHOT
TABLE 43.HITACHI: OPERATING SEGMENTS
TABLE 44.KEIHIN: COMPANY SNAPSHOT
TABLE 45.KEIHIN: OPERATING SEGMENTS
TABLE 46.TI AUTOMOTIVE: COMPANY SNAPSHOT
TABLE 47.TI AUTOMOTIVE: OPERATING SEGMENTS

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info@marketpublishers.com

List Of Figures

LIST OF FIGURES

FIGURE 1.TOP WINNING STRATEGIES: PERCENTAGE DISTRIBUTION (2013-2016)
FIGURE 2.TOP WINNING STRATEGIES: NATURE AND TYPE
FIGURE 3.TOP INVESTMENT POCKETS IN GLOBAL GASOLINE DIRECT INJECTION MARKET, BY VEHICLE TYPE
FIGURE 4.PORTERS FIVE FORCES ANALYSIS
FIGURE 5.MARKET SHARE ANALYSIS, 2015
FIGURE 6.TOP IMPACTING FACTORS OF GLOBAL GASOLINE DIRECT INJECTION MARKET, 2015-2022
FIGURE 7.PERCENTAGE OF 2014 VEHICLE MODELS CAF COMPLIANT BY MANUFACTURERS
FIGURE 8.FUEL ECONOMY READINESS INDEX 2013
FIGURE 9.U.S.: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 10.CANADA: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 11.MEXICO: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 12.GERMANY: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 13.FRANCE: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 14.ITALY: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 15.UK: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 16.REST OF EUROPE: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 17.CHINA: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 18.JAPAN: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 19.INDIA: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 20.AUSTRALIA: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)

FIGURE 21.REST OF ASIA-PACIFIC: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 22.LATIN AMERICA: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 23.MIDDLE EAST: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 24.AFRICA: GASOLINE DIRECT INJECTION MARKET SIZE, 2014-2022 ($MILLION)
FIGURE 25.MAGNETI MARELLI SNAPSHOT
FIGURE 26.BOSCH SNAPSHOT
FIGURE 27.DELPHI SNAPSHOT
FIGURE 28.CONTINENTAL SNAPSHOT
FIGURE 29.DENSO SNAPSHOT
FIGURE 30.EATON SNAPSHOT
FIGURE 31.HITACHI SNAPSHOT
FIGURE 32.KEIHIN SNAPSHOT

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