

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 NO_x, 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

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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Renesas Electronics Corporation(Japan)

Nostrum Energy (U.S.)

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