

Fuel Injection Systems Market By Technology (Port Fuel, GDI, Direct Diesel), Engine Type (Gasoline, Diesel), Geography, Vehicle Type & Component: Global Trends & Forecast To 2018

Description: Fuel injection system is a vital component in any automotive engine. With continuous developments occurring in gasoline and diesel injection technologies, various automobile manufacturers have succeeded in meeting stringent carbon emission norms and improving fuel economy of vehicles. A typical fuel injection system is an assembly of number of components governed by electronic control unit (ECU) which regulates and monitors the quantity of fuel entering into engine cylinders depending upon engine requirements.

A fuel injection system does not only supply fuel for combustion process but also decides on how a particular system would be optimized. Modern fuel injection systems are responsible for injection timing, atomization, and injection quality. They also provide several additional functions which include rate shaping (or scheduling the injection of fuel), multiple injections, pilot injection, and post injection. The components such as fuel injectors, electronic control unit (ECU), fuel pressure regulators, fuel pumps etc. are vital in the proper functioning of a fuel injection system.

The report segments the market based on vehicle types (passenger, commercial, heavy trucks and buses, and two-wheelers); geography (Asia-Pacific, Europe, North America, and Rest of the World); engine types (gasoline, diesel); technology (gasoline direct injection, port injection, and diesel direct injection); components (injectors, ECU, pressure regulators, high pressure pumps), and provides market forecast in terms of volume (number of fuel injection systems) and revenue (\$million) for aforesaid segments.

The report classifies and defines the demand for fuel injection systems in the automobile industry. It covers qualitative data about fuel injection as a system, its components and functions. The report also provides a comprehensive review of major market drivers, restraints, opportunities, challenges, and key issues in the fuel injection system market. The major players in fuel injection systems market are Bosch, Denso, Delphi and Continental AG.

Fuel injection technologies: Changing buyer's preferences

The advancement in fuel injection technologies has led to many modifications in passenger car segment. For instance, with the development of diesel injection technology the automobile market saw a quick adoption of diesel engines in small passenger car segment. This led to growing preference of diesel cars across the globe.

Improved fuel efficiency & power output, reliability, basic diagnostic capability, ability to accommodate some of the alternative fuels, and decreased exhaust emissions are some of the factors that have primarily propelled the demand for fuel injection systems in automobile industry. Many of the two wheeler manufacturers across the globe are also focusing on the use of fuel injection technology in two-wheelers with less engine capacity (150cc and below). The overall demand of fuel injection system is expected to increase at a promising rate in the future. Hence, many technological developments pertaining to cost-effectiveness and efficiency of the fuel injection system can be expected in subsequent five years.

Scope of the Report

The fuel delivery and injection systems go hand in hand. The fuel delivery system supplies required amount of fuel to the injection system which in turn starts fuel ignition, combustion and resultant exhaust. However, the scope of the report covers fuel injection technology as a system.

The global fuel injection system market is analyzed in terms of volume (thousand units) and value (\$million) for the aforesaid vehicle types, fuel types, and product types by regions and respective major countries.

By Geography
- Asia-Pacific
- Europe

- North America
- ROW
- By Components
- Fuel injectors
- Electronic Control Unit (ECU)
- Fuel Pressure Regulator (FPR)
- High pressure fuel pump
- By Vehicle Types
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- Light commercial vehicles
- Heavy trucks/buses/coaches
- Two-Wheelers
- Asia-Pacific
- Europe
- North America
- ROW
- By Engine Types
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- Diesel
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- Gasoline injection
- Port or Multi-point fuel injection
- Direct injection
- Diesel injection
- Direct injection

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11.3 DENSO CORPORATION

11.4 EDELBROCK LLC

11.5 FEDERAL-MOGUL CORPORATION

11.6 GB REMANUFACTURING INC.

11.7 HITACHI LTD

11.8 HOLLEY PERFORMANCE PRODUCTS INC.

11.9 INFINEON TECHNOLOGIES AG

11.10 KEIHIN CORPORATION

11.11 KINSLER FUEL INJECTION

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11.13 NGK SPARK PLUG INC.

11.14 ROBERT BOSCH GMBH

11.15 TI AUTOMOTIVE INC.

11.16 TRANSONIC COMBUSTION INC.

11.17 UCI INTERNATIONAL INC. (UCI FRAM GROUP)

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*Details on Overview, financials, product & services, strategy, and developments might not be captured in case of unlisted companies.

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