Global Injector Nozzle Market Research Report By Vehicle Type, By Technology, By Fuel Type, By Geography - Global Forecast to 2020

Description:

“Global Injector Nozzle Market Research Report By Vehicle Type (Passenger Cars, LCVs, HCVs), By Technology (Gasoline Port Fuel Injection, Diesel Direct Injection, Gasoline Direct Injection), By Fuel Type (Diesel, Gasoline), By Geography - Global Forecast to 2020”

Injector nozzle is designed to inject a proper amount of fuel into the combustion chamber in response to the signal generated from electronic sensing devices in vehicles. It receives fuel at a high pressure and further thrusts it into the engine cylinder at a pre-determined interval, in a spray pattern. While designing nozzle injectors, the important parameters include injector seat, injector sac, and nozzle hole size and shape. These parameters are responsible for maintaining the performance of the engine, with respect to stabilizing emission and improving the mechanical durability of the injector.

The demand for automobiles is growing exponentially, which has further led to the increasing demand for fuel-efficient and eco-friendly vehicles. Moreover, the Organization of the Petroleum Exporting Countries (OPEC) has imposed new regulations on its members and restricted the extraction and export of crude oil. This has further impacted the supply of crude oil to emerging countries such as India, China, Brazil, and South Africa, among others, who are major importers of crude oil and natural gas. To lower down these imports and conserve conventional fuel, vehicles need be more fuel efficient, in turn, driving the injector nozzle market.

One of the major concerns is to control emission of harmful gases such as carbon monoxide (CO) and sulfur dioxide (SO2), among others. Furthermore, environmentalists are continuously stressing on the issue of ozone layer depletion due to excessive emission of harmful gases. In regard to this, several countries are focused on regulating the existing emission norms to control air pollution. Also, in order to adhere to the stringent emission standards, automobile manufacturers have started to refine its exhaust and fuel injection systems. Automobile companies are investing significantly in R&D activities to undergo technological advancements in the field of fuel injection.

In the emerging economies, gasoline prices are higher than diesel, owing to which the demand for diesel engines is projected to increase in the future. However, advancements in gasoline engine (gasoline direct injection) have increased its fuel-efficiency, thereby making them compatible with diesel engines.

In 2011, 13 major automobile manufacturers such as Ford, GM, Chrysler, BMW, Honda, Hyundai (HYMLF), Jaguar/Land Rover, Kia, Mazda, Mitsubishi, Nissan, Toyota, and Volvo signed letters of commitment with the U.S. government to upgrade fuel economy standards of their cars and light-duty trucks to 23.2 km per liter (54.5 miles per gallon) by 2025. This is further expected to save 12 billion barrels of oil per day, which is half of the oil imported by the U.S. from OPEC countries on a daily basis.

Among all vehicle types, the passenger cars segment accounted for the highest share of 69.0% of the global injector nozzle market in 2015. Furthermore, on the basis of technology, the gasoline direct injection technology segment is projected to grow at the highest CAGR of 8.3% during the forecast period. Major players operating in the global injector nozzle market include Continental AG, Delphi Automotive LLP, Denso Corporation, Robert Bosch GmbH, Infineon Technology AG, Keihin Corporation, and Magneti Marelli S.p.A., and among others.

MacroIndicators of this market are Production Statistics.

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