Global Diesel Common Rail Injection System Market Research Report: by Fuel Injector (Solenoid and Piezoelectric), Vehicle Type (Passenger Car and Commercial Vehicle), and Region (North America, Europe, Asia-Pacific, and Rest of the World)—Forecast till 2025

Market Synopsis

The common rail injection system is a direct fuel injection system for both gasoline and diesel engines. In the common rail injection system, rail is used to distribute fuel to the injectors from a high-pressure accumulator. The common rail injection system consists of a high-pressure pump, injectors, a rail, and an electronic control unit (ECU). An electronic system, pressure control valve, and pump metering are used to control the common rail injection pressure, the injection timing, and injection rate. The use of common rail injection systems helps to reduce engine exhaust and noise emissions, enhance fuel efficiency, and improve the overall engine performance.

The growing number of modern diesel engines drives the demand for common rail direct injection (CRDI) fuel systems. For instance, Perkins Engines Company Limited, a subsidiary of Caterpillar Inc., applies CRDI technology to its different electronic products ranging from 400 to 1200 series having 3, 4, 5, and 6 cylinders. Furthermore, the growing demand for gasoline direct injection system, stringent emission control standards, rising sales of off-highway commercial vehicles, and developing mining and industrial activities globally are accelerating the market growth.

The global diesel common rail injection system market is estimated to reach around USD 25 billion by 2025, registering a CAGR of ~4% during the forecast period.

The shift toward electric vehicles, volatile raw material prices, and fluctuation in crude oil prices are factors restraining the growth of the global market. However, rapid expansion of automotive industry in developing regions, deployment of powertrain system in automobiles, and growing demand for autonomous vehicles are providing growth opportunities for vendors operating in the global common rail injection system market.

Segmentation: Diesel Common Rail Injection System Market

Market Research Future The global diesel common rail injection system market has been segmented based on fuel injector, vehicle type, and region. On the basis of fuel injector, the global market has been segmented into solenoid and piezoelectric. Based on vehicle type, the global diesel common rail injection system market has been segmented into passenger car and commercial vehicle.

Based on geography, the global diesel common rail injection system market has been studied for Europe, North America, Asia-Pacific, and the rest of the world. The market in Asia-Pacific is expected to grow at a rapid pace during the forecast period—the increasing disposable income and rising demand for commercial vehicles from China and India are driving the market for the fuel injection. North America is projected to exhibit substantial growth over the forecast period due to growing demand for automotive fuel injectors for off-road applications.

The market in Europe is expected to grow at a significant rate during the forecast period owing to a high number of diesel vehicles and rising demand for advanced technology in diesel vehicle systems driving the market in the region.

The prominent players operating in the global diesel common rail injection system market are Robert...
Bosch GmbH (Germany), Delphi Automotive PLC (UK), Denso Corporation (Japan), Continental AG (Germany), Federal-Mogul Corporation (US), Magneti Marelli (Italy), Hyundai KEFICO (South Korea), Siemens Deka Inc., (US), Ganser CRS AG (Switzerland), and Eaton Corporation (US).

The report for the global Diesel Common Rail Injection System market of Market Research Future covers extensive primary research. This is accompanied by a detailed analysis of qualitative and quantitative aspects by various industry experts and key opinion leaders to gain deeper insights into the market and industry performance. The report gives a clear picture of the current market scenario, which includes the historic and forecasted market size, in terms of value and volume, technological advancement, macroeconomic, and governing factors of the market. The report provides comprehensive information about the strategies of the top companies in the industry, along with a broad study of the different market segments and regions.

**Intended Audience:**
- Diesel common rail injection system manufacturers
- Diesel common rail injection system distributors and suppliers
- State and national regulatory authorities
- Raw material suppliers
- Market research and consulting firm
- Investors/shareholders
- Government and industry associations
- State or government-owned corporations
- Research organizations

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