

# **Global Gasoline Direct Injection Market Size study & Forecast, by Vehicle Type (Hatchback, Sedan, SUV/MPV), by Engine Type (I3, I4, V6, V8, Other Engine Types), by Component (ECUs, Fuel Injectors, Fuel Rails, Fuel Pumps, Sensors), by Hybrid Vehicles (Hybrid Electric Vehicle, Plug-In Hybrid Electric Vehicle), by Technology, and Regional Analysis, 2023-2030**

<https://marketpublishers.com/r/G5D97AE857F6EN.html>

Date: April 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G5D97AE857F6EN

## **Abstracts**

Global Gasoline Direct Injection Market is valued at approximately USD 5.1 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 7.1% during the forecast period 2023-2030. Gasoline Direct Injection (GDI) is a cutting-edge fuel delivery system for gasoline internal combustion engines. It employs a high-pressure common rail accumulator assembly to directly inject fuel into the engine's combustion chambers. GDI systems offer enhanced fuel efficiency, increased power output, elimination of throttle losses, and greater flexibility in engine timing. GDI systems precisely control the amount and timing of fuel injected into the combustion chamber, this leads to a more thorough combustion process, resulting in diminished levels of unburned hydrocarbons and reduced CO2 emissions per unit of fuel utilized. Ultimately the attainment of enhanced fuel efficiency and decreased carbon emissions serves as a driving force in the present market landscape. The stringent regulations laid by the Government to control the pollution in the environment also propel the Gasoline Direct Injection Market growth.

The escalation in vehicle emissions over the past decade is primarily due to heightened consumer income levels, leading to increased ownership of private vehicles for travel,

consequently raising carbon emission rates, this can be controlled with the usage of Gasoline Direct Injection Systems where the carbon emission is considerable not to contribute to pollution. According to a report by the European Environment Agency, transportation accounted for approximately one-quarter of the EU's total CO<sub>2</sub> emissions in 2019, with road transportation contributing 71.7% to this sector. Furthermore, according to the US Environment Protection Agency, An average passenger vehicle releases approximately 4.6 metric tons of carbon dioxide annually. Technological advancements in improving GDI's thermal efficiency and performance can serve as an opportunity for the market to grow. Additionally, the preference of the automotive industry for downsizing engines and reducing vehicle weight is anticipated to boost the market's growth. There are also rising challenges such as the emergence of the electric vehicle which is far better than the GDIs is expected to stifle the market's growth in the forecast period. The High cost of the GDI Engines in comparison to the port fuel injection engines is also a constraint where the consumers overlook the cost over quality.

The key regions considered for the Global Gasoline Direct Injection Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the increased production of vehicles in countries such as India, China, Japan & South Korea along with the demand for fuel-efficient vehicles in compliance with stringent emission standards have contributed to the leading share for this region. Europe is expected to grow significantly over the forecast period, owing to advancements in technology directed towards the ultimate aim of lowering the carbon emissions generated from vehicles is expected to propel the market in this region.

Major market player included in this report are:

Robert Bosch GmbH

Denso Corporation

Hitachi, Ltd.

BorgWarner, Inc.

Marelli Holdings Co, Ltd.

TI Automotive (Heidelberg) GmbH

ST Microelectronics

Stanadyne Holdings

Keihin

Infineon Technologies AG

#### Recent Developments in the Market:

In December 2022, BorgWarner announced its intention to separate its Fuel Systems and Aftermarket segments, aligning with its strategic approach termed 'Charging Forward.' This move, upon realization, marks the achievement of the company's 2025 disposition objective in the anticipation of attaining efficient Fuel systems.

In December 2023, Marelli unveiled its latest hydrogen propulsion fuel system at the CTI Symposium 2023 in Germany. The system features specialized injectors with patented design and an advanced Engine Control Unit. Tailored for hydrogen engines, which operate similarly to traditional endothermic engines, where it utilizes hydrogen as fuel, resulting in zero CO2 emissions, making it a compelling option for eco-friendly transportation.

#### Global Gasoline Direct Injection Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Vehicle Type, Engine Type, Component, Hybrid Vehicles, Technology, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Vehicle:

Hatchback

Sedan

SUV/MPV

By Engine Type:

I3

I4

V6

V8

Other Engine Types

By Component:

ECUs

Fuel Injectors

Fuel Rails

Fuel Pumps

Sensors

By Hybrid Vehicles:

Hybrid Electric Vehicle (HEV)

Plug-In Hybrid Electric Vehicle (PHEV)

By Technology:

Gasoline Turbocharger

Gasoline Particulate Filter (GPF)

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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