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Automotive Fuel Rail Market Research Report – Forecast to 2032

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Description:

Global Automotive Fuel Rail Market Overview:

Automotive Fuel Rail Market Size was valued at USD 4.2 Billion in 2022. The automotive fuel rail market industry is projected to grow from USD 4.36 Billion in 2023 to USD 5.48 Billion by 2032, exhibiting a compound annual growth rate (CAGR) of 3.00% during the forecast period (2023 - 2032). Rising vehicle demand, fluctuating gasoline prices, and strict government pollution requirements are a few market drivers that significantly contribute to the growth of the automotive fuel rail industry. In addition, severe emission regulations and the requirement for fuel economy are driving up demand for improved fuel delivery systems, which is expected to further support market growth in the near future.

Global Automotive Fuel Rail Market Overview

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Automotive Fuel Rail Market Trends

- **Increased demand for fuel-efficient vehicles is driving the market growth**

The growing demand for fuel-efficient vehicles is projected to have an impact on the market for automotive fuel rail. Although gasoline rails are not necessary for EVs, it is anticipated that demand for conventional fuel rail systems would decline as EV sales rise. For the automotive fuel rail market, long-term effects of this trend are anticipated. The use of lightweight materials in fuel rail systems is a significant market development. Automotive fuel rail systems are increasingly utilizing lightweight materials like aluminium and composite materials to minimize weight and improve fuel efficiency. Consumer demand for fuel-efficient vehicles is predicted to drive the market for automotive fuel rail. Government emission regulations that are rigorous and the growing concern over environmental pollution are driving the need for fuel-efficient cars, which is expected to increase the market for automotive fuel rail. Furthermore, improvements in fuel injection systems like GDI and common rail injection systems are predicted to be the main factor driving the need for fuel rail systems. As a result of the sophisticated fuel rail systems needed by advanced fuel injection systems for efficient fuel delivery, it is projected that the need for fuel rails would increase.

The majority of developed and emerging countries are attempting to attain zero emission requirements by totally removing fossil fuel vehicles from the road, which is predicted to result in a tremendous boom in the sales and manufacturing of electric vehicles. For instance, the Indian government declared that by 2030, the nation will be entirely powered by ZEVs. EV sales are anticipated to increase further globally with additional government incentives and the availability of superior electric vehicles (greater range and reduced range anxiety). Furthermore, governments all around the world have launched a number of programmes and initiatives to entice consumers to select electric vehicles over conventional automobiles. As a result of these advantages, the market for automotive fuel rail is expected to increase at a healthy rate over the foreseeable future. For instance, 2.65 million brand-new EVs were sold overall in the first half of 2021, up 168% from the same period in 2020. The most recent rises indicate hyper-growth, however they must be compared to the low base of H1 2020. Moreover, In contrast to 26% in 2019, the European region accounted for roughly 43% of sales of electric vehicles in 2020. Approximately 3.24 million plug-in vehicles were sold globally, up from 2.26 million in 2019. Sales have increased significantly as a result of stricter regulations put in place by various organisations and governments to reduce emissions and promote zero-emission vehicles. Over the course of the forecast period, these innovations are anticipated to propel the expansion for automotive fuel rail market revenue.

Automotive Fuel Rail Market Segment Insights:

Automotive Fuel Rail Fuel Type Insights

The automotive fuel rail market segmentation, based on fuel type includes Gasoline, Diesel and Alternative Fuel. The gasoline segment dominated the market. An internal combustion engine with spark ignition that is made to run on petrol and other fuels is known as a petrol engine. Nikolaus Otto created the first effective petrol engine in 1876. An engine that runs on compressed natural gas (CNG), liquefied petroleum gas (LPG), or propane is referred to as a gas engine. Engines that employ combinations of these fuels are also included.

Automotive Fuel Rail Engine Type Insights

The automotive fuel rail market segmentation, based on engine type, includes Inline Engine and V-Engine. The V-engine category generated the most income. V-engines are more advantageous due to their low cost and ease of use. V-engines are complex and expensive, requiring two fuel rails and two camshafts.

Figure 1: Automotive Fuel Rail Market, by Engine Type, 2022 & 2032 (USD Billion)

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Automotive Fuel Rail Material Insights

The automotive fuel rail market segmentation, based on material includes Steel, Aluminum and others. The aluminium segment dominated the market. The demand for aluminium and plastic fuel rails is rising as automakers work to lighten their vehicles. As a result, the segment's expansion in the market for automotive gasoline rails is driven by this factor.

Automotive Fuel Rail Type of Pressure System Insights

The automotive fuel rail market segmentation, based on type of pressure system includes High-pressure and Low-pressure. The high-pressure segment dominated the market. Modern fuel direct injection (GDI) engines and a few diesel engines are the main applications for high-pressure systems. Due to its higher power output, better fuel efficiency, and lower emissions, GDI engines are becoming more and more common.

Automotive Fuel Rail Regional Insights

By region, the study provides the market insights into North America, Europe, Asia-Pacific and Rest of the World. The North American automotive fuel rail market area will dominate this market. Market expansion in this region will be fueled by the increased demand for powerful cars as well as stricter emission rules and fuel economy requirements. Additionally, growing logistics industries and greater use of light commercial vehicles like vans are driving up demand for commercial vehicles, which will have an impact on regional growth.

Further, the major countries studied in the market report are The US, Canada, German, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 2: Automotive Fuel Rail Market Share By Region 2022 (USD Billion)

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Europe automotive fuel rail market accounts for the second-largest market share. This industry is expanding as a result of a number of factors, including increased vehicle demand, technological advancements, and rising disposable income. The region's strict government regulations governing fuel pollution, along with the growing demand for electric and hybrid vehicles in the region, are anticipated to promote market expansion. Further, the German automotive fuel rail market held the largest market share, and the UK automotive fuel rail market was the fastest growing market in the European region

The Asia-Pacific Automotive fuel rail Market is expected to grow at the fastest CAGR from 2023 to 2032 due to rising sales of cars and trucks in the upcoming years, particularly in developing nations like China and India. Additionally, it is anticipated that in the upcoming years, the market for automobile fuel rail in Asia-Pacific would benefit from the growing adoption of natural gas vehicles across a number of nations. Moreover, China’s automotive fuel rail market held the largest market share, and the Indian automotive fuel rail market was the fastest growing market in the Asia-Pacific region.

Automotive Fuel Rail Key Market Players & Competitive Insights

Leading market players are investing heavily in research and development in order to expand their product lines, which will help the automotive fuel rail market, grow even more. Market participants

are also undertaking a variety of strategic activities to expand their footprint, with important market developments including new product launches, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. To expand and survive in a more competitive and rising market climate, automotive fuel rail industry must offer cost-effective items.

Manufacturing locally to minimize operational costs is one of the key business tactics used by manufacturers in the automotive fuel rail industry to benefit clients and increase the market sector. In recent years, the automotive fuel rail industry has offered some of the most significant advantages to market. Major players in the automotive fuel rail market attempting to increase market demand by investing in research and development operations include Cooper-Standard Automotive Inc (US), Magneti Marelli S.p.A. (Italy), Roberts Bosch GmbH (Germany), Continental AG (Germany), Nikki Co. Ltd. (Japan), Landi Renzo S.p.A (Italy), Linamar Corporation (Canada), AISIN SEIKI Co. Ltd. (Japan), Sanoh Industrial Co. Ltd. (Japan) and TI Fluid Systems (UK).

A provider of technology and services, Robert Bosch GmbH is a division of Robert Bosch Stiftung GmbH. The business provides a broad range of goods and services, including automotive components and accessories, e-bike systems, automotive technology, home appliances, security systems, solar inverters, packaging technology, industry solutions, and business process management solutions. The company serves clients in the automotive, consumer electronics, and BPO sectors in the Americas, Europe, Asia Pacific, and Africa along with sales and service partners, subsidiaries, and local businesses. The headquarters of Bosch are in Stuttgart, Germany.

Sanoh Industrial Co., Ltd. is a multinational manufacturer of car parts with 93 production facilities in 22 nations. It produces a range of plastic and metal tubes for autos as well as condensers for refrigerators. Along with nickel metal hydride batteries, the company also makes shoulder adjusters, seat belt buckles, and other accessories. We also manufacture all of our own production and processing machinery.

Key Companies in the automotive fuel rail market include

- Cooper-Standard Automotive Inc (US)
- Magneti Marelli S.p.A. (Italy)
- Roberts Bosch GmbH (Germany)
- Continental AG (Germany)
- Nikki Co. Ltd. (Japan)
- Landi Renzo S.p.A (Italy)
- Linamar Corporation (Canada)
- AISIN SEIKI Co. Ltd. (Japan)
- Sanoh Industrial Co. Ltd. (Japan)
- TI Fluid Systems (UK)

Automotive Fuel Rail Industry Developments

March 2021: Continental AG created a new lightweight fuel rail for petrol direct injection (GDI) engines. The new aluminium fuel rail is stronger and lighter than the older steel fuel rails because of its composition.

Automotive Fuel Rail Market Segmentation:

Automotive Fuel Rail Fuel Type Outlook (USD Billion, 2018-2032)

- Gasoline
- Diesel
- Alternative Fuel

Automotive Fuel Rail Engine Type Outlook (USD Billion, 2018-2032)

- Inline Engine
- V-Engine

Automotive Fuel Rail Material Outlook (USD Billion, 2018-2032)

- Steel
- Aluminum
- Others

Automotive Fuel Rail Type of Pressure System Outlook (USD Billion, 2018-2032)

- High-pressure
- Low-pressure

Automotive Fuel Rail Regional Outlook (USD Billion, 2018-2032)

- North America
    - US
    - Canada
- Europe
    - Germany
    - France
    - UK
    - Italy
    - Spain
    - Rest of Europe
- Asia-Pacific
    - China
    - Japan
    - India
    - Australia
    - South Korea
    - Australia
    - Rest of Asia-Pacific
- Rest of the World
    - Middle East
    - Africa
    - Latin America

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