

Two-Wheeler Fuel Injection Systems Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Engine Size (Less Than 100cc, 101cc – 150cc, 151cc – 250cc, 251cc – 500cc, 501cc & Above), By Vehicle Type (Scooters, Motorcycles), By Demand Category (OEMs, Aftermarket), By Region & Competition, 2019-2029F

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Abstracts

The global two-wheeler fuel injection systems market was valued at USD 12.70 Billion in 2023 and is expected to reach USD 18.92 Billion by 2029 with a CAGR of 6.94% during the forecast period. The global two-wheeler fuel injection systems market is experiencing steady growth, driven by the increasing demand for fuel-efficient vehicles and tightening emissions regulations. As governments worldwide implement stricter environmental policies, manufacturers are focused on improving fuel efficiency and reducing pollutants in two-wheelers. Fuel injection systems play a crucial role in optimizing engine performance by precisely controlling fuel flow, leading to better combustion efficiency and lower emissions. This shift towards cleaner, more efficient engines is prompting both established and new players in the industry to invest in advanced fuel injection technologies, including electronic fuel injection (EFI) systems, which offer enhanced precision and performance.

In addition to regulatory pressure, the growing consumer preference for high-performance two-wheelers is fueling market growth. Riders are increasingly seeking motorcycles and scooters that offer superior power output, better fuel economy, and enhanced riding experiences. The trend is particularly prominent in emerging markets where disposable income is rising, and demand for premium two-wheelers is increasing. Manufacturers are responding by incorporating advanced fuel injection systems into

their models to meet consumer expectations for better engine performance, reliability, and environmental sustainability. This trend is expected to continue, with more consumers opting for fuel-injected two-wheelers due to their improved efficiency and performance.

The market also presents numerous opportunities driven by the rising popularity of electric vehicles (EVs) and hybrid powertrains. With advancements in hybrid two-wheelers, fuel injection systems are being integrated with electric motors to create more efficient and sustainable vehicles. The ongoing technological developments in the automotive industry, including improvements in battery technology and electric powertrains, are likely to expand the scope of fuel injection systems in the two-wheeler sector. However, the market faces challenges such as high manufacturing costs and the complexity of integrating advanced fuel injection systems into smaller engines. These factors may hinder widespread adoption in price-sensitive markets, but ongoing research and development could mitigate these issues in the coming years.

Market Drivers

Stringent Emission Regulations

Governments worldwide are enforcing tighter emission standards to combat air pollution. In response, manufacturers are increasingly turning to fuel injection systems to ensure that two-wheelers meet these standards. Fuel injection systems improve combustion efficiency, reducing harmful exhaust emissions, which helps manufacturers comply with regulatory requirements. As these regulations become more stringent, fuel injection systems are becoming a standard feature in modern two-wheelers, replacing traditional carburetors, which are less efficient in managing emissions.

Rising Fuel Efficiency Demand

Consumers today are more conscious of fuel costs and efficiency. As global fuel prices rise, fuel-efficient vehicles have gained preference. Fuel injection systems, by precisely controlling fuel delivery, optimize fuel consumption, leading to better mileage and lower fuel costs. This growing preference for fuel-efficient vehicles is a significant driver in the adoption of fuel injection systems in the two-wheeler market, where fuel economy plays a pivotal role in consumer decision-making.

Technological Advancements

Advances in fuel injection technologies, such as electronic fuel injection (EFI) systems, have improved engine performance and reduced fuel consumption. Innovations like multi-point and direct injection technologies allow for better fuel atomization and air-fuel mixture control. These technologies enhance power delivery, engine responsiveness, and overall driving experience. As these systems become more sophisticated, they are being adopted in a broader range of two-wheelers, from entry-level models to high-performance bikes.

Consumer Shift Toward Premium Motorcycles

The growing demand for premium motorcycles, especially in urban markets, is driving the need for high-performance engines. Fuel injection systems enable smoother engine operation, better throttle response, and higher performance compared to traditional carbureted engines. As consumers prioritize performance, fuel injection systems are becoming an essential feature in higher-end motorcycles and sport bikes, fueling the market's growth.

Support for Hybrid and Electric Models

Hybrid and electric two-wheelers, which combine electric motors with internal combustion engines, rely on advanced fuel injection systems for optimal performance. These systems are being integrated into hybrid models to balance fuel efficiency and power output. As the market for hybrid and electric vehicles expands, fuel injection systems are likely to play a critical role in optimizing energy use, ensuring that these innovative models perform efficiently and are more appealing to consumers seeking sustainable transportation options.

Key Market Challenges

High Cost of Fuel Injection Systems

The implementation of fuel injection systems is more expensive than traditional carburetors, both in terms of manufacturing and maintenance. This price difference can deter price-sensitive consumers from opting for vehicles equipped with these systems. Lower-income markets, where affordability is a primary concern, may struggle to adopt fuel injection systems despite their benefits in fuel efficiency and performance. Manufacturers face the challenge of balancing the added cost with consumer demand for affordable two-wheelers.

Complexity in Engine Design

Integrating fuel injection systems into smaller engine platforms, typical of many two-wheelers, can be challenging. These systems require advanced technology, specialized components, and precise calibration to function optimally. For manufacturers, this means that designing fuel-efficient, high-performance engines with fuel injection systems involves intricate engineering and testing. The complexity of integration can delay development timelines and add to production costs, especially in smaller, cost-sensitive markets.

Consumer Resistance to New Technology

Some segments of the market remain reluctant to adopt fuel injection systems, preferring carbureted engines due to familiarity and ease of maintenance. Consumers in rural areas or regions with less advanced infrastructure may not have the knowledge or resources to handle the technical complexities of fuel injection systems. Overcoming this resistance requires educating consumers on the benefits of fuel injection technology and offering support networks for service and repairs.

Supply Chain Constraints

The fuel injection system market faces supply chain challenges, particularly regarding the sourcing of specialized components such as fuel injectors, sensors, and electronic control units. Global shortages or disruptions in the supply chain for these components can delay production and inflate costs for manufacturers. This is particularly problematic for smaller manufacturers who may not have the resources to absorb the financial impact of these supply chain challenges.

Regulatory Compliance Costs

As emission standards and environmental regulations become stricter, manufacturers face increased compliance costs when designing and producing two-wheelers with fuel injection systems. Adhering to global environmental standards requires significant investment in R&D and testing to ensure that systems meet required performance benchmarks. These regulatory pressures could increase manufacturing costs and impact the affordability of two-wheelers, particularly in developing markets where regulatory enforcement may be less stringent.

Key Market Trends

Growth of Electric and Hybrid Two-Wheelers

The increasing adoption of electric and hybrid two-wheelers reflects a significant market trend towards more sustainable transportation options. These vehicles require sophisticated fuel injection systems to optimize the performance of both their electric and internal combustion engines. As consumer awareness of environmental issues grows, the demand for hybrid models that integrate electric propulsion with fuel-efficient engines is expected to rise, with fuel injection systems playing a vital role in optimizing these systems for better fuel economy and lower emissions.

Integration of Advanced Fuel Management Technologies

With technological advancements, two-wheeler manufacturers are increasingly incorporating sophisticated fuel management technologies like variable valve timing (VVT) and turbocharging into fuel injection systems. These technologies allow for improved engine performance by optimizing power output, fuel efficiency, and emissions control. By integrating such advanced technologies, manufacturers are enhancing the efficiency of fuel injection systems, making them a more attractive choice for consumers seeking both performance and eco-friendliness.

Shift Towards Connected Motorcycles

There is a growing trend toward smart, connected motorcycles that offer enhanced safety features and user experience. Fuel injection systems are evolving to integrate with these connected platforms, allowing real-time monitoring of engine performance and fuel efficiency. These innovations provide both riders and manufacturers with valuable data, enabling better maintenance practices, performance optimization, and overall vehicle management. The rise of connected motorcycles represents an opportunity for fuel injection systems to become a critical component of the broader digital transformation in the two-wheeler market.

Emphasis on Lightweight Designs

In response to consumer demand for better fuel efficiency and agility, manufacturers are focusing on producing lighter motorcycles without compromising on performance. Fuel injection systems are becoming increasingly compact and lightweight, aligning with this trend toward smaller, more efficient engines. By reducing the weight of both the injection system and the overall vehicle, manufacturers can improve fuel efficiency while

enhancing handling and performance, particularly in sport and commuter motorcycles.

Increased Investment in R&D for Fuel Injection Technologies

The rising competition in the two-wheeler market is pushing manufacturers to invest more in research and development to refine fuel injection technologies. Innovations such as direct injection, turbocharging, and multi-point fuel injection are becoming more common as companies strive to offer products that deliver better fuel efficiency, higher power output, and reduced emissions. This investment in R&D is key to driving innovation in the market, ensuring that fuel injection systems continue to evolve in line with consumer expectations for performance, cost-effectiveness, and sustainability.

Segmental Insights

Engine Size Insights

The leading segment in the two-wheeler fuel injection systems market by engine size is 151cc – 250cc, driven by its balance of performance, affordability, and utility. This engine category is particularly favored in emerging markets due to its suitability for both urban commuting and longer rides. Two-wheelers within this range provide a powerful yet fuel-efficient option, appealing to middle-class consumers who prioritize cost-effectiveness without compromising on speed and reliability. Additionally, they are a popular choice for recreational riders and delivery services, further expanding their demand. The growing adoption of fuel injection systems in this segment is fueled by tightening emission norms and the increasing shift away from carburetors. Fuel injection technology enhances fuel efficiency, reduces emissions, and improves throttle response, aligning with global environmental regulations like Euro 5 and BS-VI standards. Manufacturers in the 151cc – 250cc category have rapidly integrated this technology to remain competitive and meet regulatory requirements.

The rise of e-commerce and food delivery services has amplified the demand for two-wheelers in this engine class, as they provide the right balance of speed, power, and maneuverability. Regions like Asia-Pacific, particularly India and Indonesia, represent significant markets, where this engine size aligns with consumer preferences for versatility and affordability. The premium yet accessible nature of this segment also allows for innovation, with companies introducing smart fuel injection systems that support IoT-based features and diagnostic capabilities. Combined with rising consumer disposable incomes, urbanization, and infrastructural developments, the 151cc – 250cc segment remains the top choice in the two-wheeler fuel injection systems market,

reflecting its dynamic adaptability to evolving market and regulatory trends.

Regional Insights

The Asia-Pacific region stands as the dominant market for two-wheeler fuel injection systems. This region is home to some of the largest markets for two-wheelers, driven by a combination of urbanization, rising disposable incomes, and the growing need for efficient transportation. The Asia-Pacific market encompasses both mature economies with high motorcycle ownership, such as Japan, and rapidly developing countries like India, China, and Southeast Asian nations, where motorcycles serve as essential modes of daily transport.

In countries like India and China, motorcycles and scooters are not just a mode of transportation but an integral part of daily life. Rising fuel prices, environmental concerns, and government regulations aimed at reducing emissions have significantly contributed to the shift from carburetors to fuel injection systems in new two-wheeler models. Fuel injection technology offers the advantage of improved fuel efficiency, reduced emissions, and enhanced engine performance, which resonates with both consumers and policymakers. As a result, there is a clear push toward more sustainable and advanced fuel management systems.

The growing middle-class population in countries across the Asia-Pacific region further drives the demand for more sophisticated and fuel-efficient two-wheelers. Consumers are increasingly seeking motorcycles that offer better performance, fuel economy, and compliance with strict emission regulations. Fuel injection systems, which provide more precise control of the air-fuel mixture, play a crucial role in meeting these demands. The high concentration of manufacturing facilities in countries like India and China also allows for economies of scale, making fuel-injected motorcycles more accessible to a broad range of consumers. Urbanization continues to be another key factor in driving the market. As cities in Asia-Pacific become more congested, motorcycles are favored for their agility and fuel efficiency in crowded environments. Fuel injection systems contribute to making these two-wheelers more reliable and efficient, aligning with the needs of urban commuters who prioritize fuel savings and lower maintenance. With the increasing focus on environmental sustainability and improved fuel economy, the region's transition to fuel-injected two-wheelers is expected to continue accelerating in the coming years. This combination of consumer demand, regulatory push, and local manufacturing advantages positions Asia-Pacific as the dominant region in the two-wheeler fuel injection systems market in 2023.

Key Market Players

Robert Bosch GmbH

Marelli Holdings Co., Ltd.

Denso Corporation

Mikuni Corporation

Hitachi Astemo, Ltd.

DUCATI Energia Spa

Walbro LLC

EDELBROCK, LLC.

SEDEMAC Mechatronics Pvt Ltd.

UCAL Systems Inc.

Report Scope:

In this report, the global two-wheeler fuel injection systems market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

· Two-Wheeler Fuel Injection Systems Market, By Engine Size:

Less Than 100cc

101cc – 150cc

151cc – 250cc

251cc – 500cc

501cc & Above

· Two-Wheeler Fuel Injection Systems Market, By Vehicle Type:

Scooters

Motorcycles

· Two-Wheeler Fuel Injection Systems Market, By Demand Category:

OEMs

Aftermarket

· Two-Wheeler Fuel Injection Systems Market, By Region:

North America

United States

Canada

Mexico

Europe & CIS

France

Germany

Spain

United Kingdom

Asia-Pacific

China

Japan

India

Australia

Indonesia

Middle East & Africa

South Africa

Saudi Arabia

UAE

South America

Brazil

Argentina

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the global two-wheeler fuel injection systems market.

Available Customizations:

Global two-wheeler fuel injection systems market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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