

Passenger Car Engine Valves Market – Global Industry Size, Share, Trends Opportunity, and Forecast, Segmented By Vehicle Type (SUV, Sedan, Hatchback, MUV), By Technology (Tappet Valves, Spring Return Valves, Desmodromic Valves, Quattrovalvole Valves), By Fuel Type (Gasoline and Diesel) By Region, Competition, 2018-2028

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Abstracts

The Global Passenger Car Engine Valves Market size reached USD 11.6 billion in 2022 and is expected grow with a CAGR of 6.7% in the forecast period.

The global passenger car engine valves market plays a pivotal role in the automotive industry, as engine valves are critical components that regulate the flow of air and fuel into the engine cylinders and the expulsion of exhaust gases. These valves are integral to the overall performance and efficiency of passenger car engines. An overview of the market reveals several key factors and trends shaping its dynamics.

Firstly, the market for passenger car engine valves is heavily influenced by the broader automotive industry. Factors such as consumer demand for fuel-efficient vehicles, emissions regulations, and advancements in engine technology significantly impact the market. As governments worldwide continue to tighten emissions standards to combat environmental concerns, automakers are under immense pressure to develop engines that are both powerful and environmentally friendly. This pressure has led to increased research and development efforts in engine valve technology to optimize engine performance and reduce emissions. In recent years, there has been a notable shift towards lightweight materials in the manufacturing of engine valves. Materials such as titanium and alloy steel are increasingly replacing traditional materials like cast iron, as

they offer improved strength-to-weight ratios, heat resistance, and durability. This shift not only contributes to improved engine efficiency but also reduces vehicle weight, leading to better fuel economy.

Another prominent trend is the growth of the electric vehicle (EV) market. While electric vehicles do not use traditional internal combustion engines, they still rely on various components, including engine valves, for ancillary systems such as HVAC (Heating, Ventilation, and Air Conditioning) and battery cooling. As the EV market continues to expand, so does the demand for specialized engine valves designed for electric vehicle applications. Furthermore, globalization has a significant impact on the passenger car engine valves market. Automotive manufacturers often source components from global suppliers to optimize cost-efficiency and product quality. This globalization trend has led to increased competition among valve manufacturers, encouraging innovation and cost-effective solutions.

In terms of market segmentation, the passenger car engine valves market can be divided into intake valves and exhaust valves. Intake valves control the flow of air and fuel into the engine cylinders, while exhaust valves manage the expulsion of exhaust gases. The demand for both types of valves is influenced by engine size, type, and technology. For instance, turbocharged engines typically require more durable valves to withstand higher temperatures and pressures. Overall, the global passenger car engine valves market is poised for continued growth and innovation. Manufacturers are likely to focus on developing valves that offer improved performance, reduced emissions, and increased longevity to meet the evolving demands of the automotive industry and regulatory landscape. Additionally, the ongoing transition to electric vehicles will present new opportunities and challenges for engine valve manufacturers as they adapt to the changing automotive landscape.

Key Market Drivers

Stringent Emissions Regulations

Governments worldwide are imposing strict emissions standards to combat air pollution and reduce greenhouse gas emissions. These regulations are a significant driver for engine valve technology advancement. Engine valves play a critical role in optimizing the combustion process, leading to cleaner exhaust emissions. To meet these regulations, automakers must invest in advanced valve technologies that improve combustion efficiency and reduce emissions.

Fuel Efficiency Demands

With rising fuel prices and increasing environmental awareness, consumers and automakers alike are emphasizing fuel efficiency. Engine valves contribute to fuel efficiency by ensuring precise control of the air-fuel mixture and reducing friction within the engine. As a result, there's a growing demand for innovative valve designs and materials that enhance fuel economy, especially in an era of hybrid and electric vehicles where combustion engine efficiency remains crucial.

Advancements in Engine Technology

Modern engines are evolving rapidly with technologies like downsizing and turbocharging becoming common. These innovations place higher demands on engine valves. Turbocharged engines, for example, generate increased heat and pressure within the combustion chamber. Engine valve materials and designs must evolve to withstand these conditions and contribute to improved engine performance.

Rising Demand for Electric Vehicles (EVs)

While EVs do not use traditional internal combustion engines, they still require various components, including valves for cooling systems and HVAC. As the demand for electric vehicles continues to surge, there is an emerging market for specialized valves designed for electric vehicle applications. These valves play a critical role in maintaining the optimal operating conditions of electric powertrains, batteries, and ancillary systems.

Globalization and Supply Chain Integration

The automotive industry operates in a globalized supply chain, with components sourced from various regions. This globalization has intensified competition among valve manufacturers, pushing them to innovate, reduce costs, and improve production efficiency. Companies are constantly seeking ways to optimize their supply chains and manufacturing processes to remain competitive in the global market.

Material Advancements

Engine valve materials have evolved significantly. Traditional materials like cast iron are being replaced with lightweight, high-strength materials such as titanium and advanced steel alloys. These materials offer better heat resistance, durability, and weight savings. The shift to advanced materials is driven by the pursuit of improved engine

performance, efficiency, and reduced vehicle weight.

Automated Manufacturing Processes

Automation and robotics are transforming the manufacturing of engine valves. Automated processes ensure precision and consistency, resulting in higher-quality products. These technologies also help streamline production, reduce labor costs, and enhance overall efficiency in valve manufacturing, making it more cost-effective.

Technological Partnerships and Collaborations

Collaboration between automotive manufacturers and valve suppliers is becoming increasingly common. These partnerships facilitate the joint development of innovative valve technologies that cater to the specific needs of modern engines and vehicle designs. Collaborations enable rapid research and development, ensuring that the latest valve advancements are integrated into the latest vehicle models.

The global passenger car engine valves market is driven by a complex interplay of factors, including regulatory pressure, technological advancements, market demand for fuel efficiency, and the need for innovative materials and manufacturing processes. These drivers collectively push the industry towards continuous innovation and improvement in engine valve technology.

Key Market Challenges

Stringent Emissions Regulations

Compliance with emissions standards is a significant challenge. Engine valves play a vital role in reducing emissions, but the pressure to meet stringent regulations can drive up development and production costs. Manufacturers must strike a balance between achieving compliance and maintaining competitive pricing.

Evolving Engine Technology

As engine technology advances, valves must adapt to changing conditions. For example, turbocharged engines have become prevalent, subjecting valves to higher temperatures and pressures. Designing valves capable of withstanding these conditions while optimizing performance is an ongoing challenge.

Materials and Manufacturing Costs

Lightweight materials like titanium and advanced steel alloys enhance valve performance but can be expensive. The use of automated manufacturing processes, while efficient, requires significant upfront investment. Managing material costs and optimizing manufacturing efficiency are persistent challenges.

Global Competition

The global automotive industry is highly competitive, with valve manufacturers facing competition from around the world. This competitive landscape exerts pressure on pricing, requiring companies to differentiate themselves through innovation, product quality, and cost-effectiveness.

Electric Vehicle Disruption

The rise of electric vehicles presents a unique challenge. While electric vehicles require valves for ancillary systems, the decline in demand for internal combustion engines could impact the overall market for engine valves. Companies must adapt to serve the electric vehicle market or diversify their product offerings.

Technological Complexity

Developing advanced engine valves with improved performance characteristics is a complex task. Valves must meet stringent requirements while remaining durable and cost-effective. This complexity requires significant research and development efforts and ongoing innovation.

Supply Chain Disruptions

The automotive industry is susceptible to supply chain disruptions caused by various factors, such as natural disasters, geopolitical conflicts, and pandemics. Such disruptions can lead to shortages of critical materials and components, impacting production schedules and increasing costs.

Quality Control and Durability

Engine valves are critical components, and any defects or failures can have serious consequences for vehicle performance and safety. Maintaining strict quality control

standards and ensuring the long-term durability of valves is a constant challenge. Companies must invest in rigorous testing and quality assurance processes to mitigate this risk.

In summary, the global passenger car engine valves market faces a combination of challenges related to regulatory compliance, adapting to evolving technology, managing material, and manufacturing costs, competing in a global market, addressing the impact of electric vehicles, dealing with technological complexity, navigating supply chain disruptions, and upholding high-quality standards. Addressing these challenges necessitates ongoing innovation, substantial investment, and adaptability on the part of valve manufacturers and automotive companies to ensure continued success in the market.

Key Market Trends

Emission Reduction Technologies

With environmental concerns driving stricter emissions regulations worldwide, automakers are turning to advanced engine valve technologies to reduce emissions from internal combustion engines. This trend includes innovations such as Variable Valve Timing (VVT), which optimizes the opening and closing of valves to improve combustion efficiency and reduce emissions. Additionally, exhaust gas recirculation (EGR) systems, which redirect exhaust gases back into the intake manifold for cleaner combustion, rely on precise valve control.

Electrification and Hybridization

As electric and hybrid vehicles become more prevalent, engine valves are not solely limited to traditional gasoline or diesel engines. These vehicles still incorporate internal combustion engines for various purposes, such as range extenders and power generators. Consequently, the passenger car engine valves market is expanding to include specialized valves for ancillary systems in electrified vehicles, including battery thermal management and cabin heating and cooling.

Lightweight Materials

Lightweight materials like titanium, nickel-based superalloys, and advanced steel alloys are gaining prominence in engine valve manufacturing. These materials offer a combination of strength, heat resistance, and reduced weight. Lightweight valves

contribute to improved engine performance, enhanced fuel efficiency, and reduced overall vehicle weight, aligning with the demand for more eco-friendly and efficient cars.

Advanced Manufacturing Technologies

The use of advanced manufacturing technologies, such as 3D printing and precision machining, is transforming how engine valves are produced. 3D printing allows for intricate and customized valve designs, reduced material waste, and improved production efficiency. Precision machining techniques enhance the quality and precision of valve components. These technologies enable manufacturers to respond rapidly to evolving market demands, reduce lead times, and optimize production processes.

Digitalization and IoT Integration

The integration of digitalization and Internet of Things (IoT) technologies is enhancing the performance and monitoring of engine valves. Sensors embedded in valves and engine components provide real-time data on valve conditions, helping optimize maintenance schedules and prevent unexpected failures. Data analytics and predictive maintenance tools are being employed to maximize valve efficiency, improve vehicle reliability, and reduce downtime.

Customization and Performance Enhancement

Consumers are increasingly seeking customized and high-performance vehicles. This trend has led to a growing demand for specialized engine valves that can enhance engine power, responsiveness, and efficiency. Valve manufacturers are developing customized solutions to cater to these niche markets, offering performance enthusiasts the ability to achieve their desired performance goals while maintaining emissions compliance.

Globalization and Supply Chain Integration

The automotive industry operates within a globalized supply chain, with components sourced from various regions. This globalization has increased competition among valve manufacturers and fostered innovation, cost-effective production, and efficient supply chain management. Valve manufacturers are strategically positioning themselves to serve a global customer base and meet diverse regional requirements.

Alternative Fuel Compatibility

The rise of alternative fuels, such as natural gas, hydrogen, and biofuels, has implications for engine valves. These fuels have unique combustion characteristics and properties that can affect valve performance and durability. Valve manufacturers are working on designs and materials tailored to the requirements of these alternative fuels, anticipating future market demands as the automotive industry explores more sustainable propulsion options.

The global passenger car engine valves market is experiencing transformative trends, driven by environmental regulations, electrification, lightweight materials, advanced manufacturing technologies, digitalization, customization demands, globalization, and alternative fuel compatibility. Adaptation to these trends is essential for both valve manufacturers and automakers to remain competitive and meet the evolving needs of consumers and regulatory standards.

Segmental Insights

By Technology

Variable Valve Timing (VVT) technology optimizes valve timing for better engine performance and efficiency. Direct Injection precisely delivers fuel into the combustion chamber, improving combustion efficiency and reducing emissions. Variable Valve Lift (VVL) systems adjust valve lift height to enhance power and efficiency, finding a balance between performance and fuel economy. Variable Valve Timing is a crucial technology that allows for the adjustment of the timing of the opening and closing of engine valves based on driving conditions. This dynamic control optimizes engine performance, leading to improved combustion efficiency, lower emissions, and enhanced fuel economy. VVT systems are integral to many modern passenger car engines, contributing significantly to their overall performance and responsiveness.

Direct injection technology is another pivotal segment in the passenger car engine valves market. It involves the precise delivery of fuel directly into the combustion chamber, resulting in better atomization, improved combustion efficiency, and reduced emissions. Direct injection systems have become increasingly popular in passenger cars as they enable higher power output and enhanced fuel economy, making them a key technology for modern engines.

By Fuel Type

The global passenger car engine valves market is influenced by various fuel types. Gasoline-powered vehicles dominate the market, with engine valves designed for efficiency and performance. Diesel engines, known for their torque and fuel economy, require robust valves to withstand higher compression ratios. Hybrid vehicles, combining gasoline and electric power, demand specialized valve technology to optimize both modes of operation. Electric vehicles, while not using traditional combustion engines, rely on valves for ancillary systems, such as cooling and HVAC. As alternative fuels like natural gas and hydrogen gain traction, engine valve manufacturers adapt designs to accommodate their distinct combustion characteristics.

By Vehicle Type

The global passenger car engine valves market caters to various vehicle types. Passenger cars represent the largest segment, requiring engine valves designed for a balance between performance and fuel efficiency. Sports cars and high-performance vehicles demand specialized valves to enhance power output. Light commercial vehicles, including vans and pickups, rely on valves suited for durability and load-carrying capabilities. In the growing segment of electric vehicles (EVs), valves are essential for ancillary systems. Additionally, hybrid vehicles, combining internal combustion engines and electric motors, necessitate valves that can optimize performance in both modes. Each vehicle type poses unique demands on engine valve technology.

By Region

The passenger car engine valves market exhibits regional variations. In North America, stringent emissions standards drive demand for advanced valve technology, focusing on reducing emissions and improving fuel efficiency. Europe, similarly committed to emissions reduction, emphasizes lightweight materials and precision engineering. Asia-Pacific, a burgeoning automotive hub, sees high demand for passenger car engine valves due to the growing vehicle production and a shift towards electrification. In contrast, South America experiences a preference for cost-effective solutions in a price-sensitive market. The Middle East and Africa, while showing moderate growth, prioritize valve reliability in challenging operating conditions. Regional preferences and regulations shape the dynamics of the passenger car engine valves market.

Regional Insights

North America, particularly the United States and Canada, is characterized by stringent

emissions regulations, such as EPA (Environmental Protection Agency) standards in the United States. These regulations drive the demand for advanced engine valve technologies that enhance combustion efficiency and reduce harmful emissions. Automakers in this region prioritize the development of eco-friendly solutions, leading to innovations in valve designs and materials. There's also a growing consumer interest in fuel efficiency, prompting investments in valve technologies that improve mileage. Furthermore, the region has a substantial market for high-performance vehicles, which requires specialized engine valves for sports cars and luxury vehicles.

Europe has long been committed to reducing emissions and improving fuel economy. The European Union's strict emissions standards, combined with environmental consciousness, drive the adoption of lightweight materials and precision engineering in engine valves. European automakers focus on engine valve technologies that contribute to reducing the carbon footprint of vehicles. The market also emphasizes high-performance vehicles, leading to a demand for specialized engine valves designed for sports cars and luxury vehicles. Additionally, the European market is witnessing the growth of the electric vehicle segment, which requires unique valve solutions for ancillary systems.

The Asia-Pacific region is a major automotive hub, with countries like China, Japan, South Korea, and India experiencing significant growth in vehicle production. This region is undergoing a notable shift towards electrification, hybridization, and the use of lightweight materials. These trends drive the demand for advanced engine valves that optimize performance while meeting stringent environmental regulations. Asia-Pacific is also a significant consumer of passenger car engine valves, given its massive vehicle production capacity. Local valve manufacturers, in collaboration with global players, are contributing to innovation in valve technology to meet the evolving demands of this dynamic market.

South America represents a price-sensitive market with unique market dynamics. While environmental concerns are present, they are often balanced with budget constraints. The region demands reliable engine valves that offer a good balance between performance and affordability. Valve manufacturers in South America cater to this demand by providing cost-effective solutions. The market dynamics in South America are influenced by economic conditions, consumer preferences, and the availability of affordable passenger cars.

In the Middle East and Africa, extreme temperatures and challenging operating conditions are common. Therefore, the focus is often on engine valve reliability and

durability. The market seeks solutions that can withstand these conditions, contributing to the longevity and resilience of passenger car engines. Valve manufacturers in this region need to design and produce valves that can endure harsh environments and maintain consistent performance. Additionally, as the automotive market in the Middle East and Africa grows, there is an increasing demand for both passenger cars and the associated engine valve technology to support them.

In summary, these regional insights highlight how factors like emissions regulations, consumer preferences, environmental concerns, and economic conditions influence the global passenger car engine valves market in distinct ways across different regions. Adaptation to these regional dynamics is crucial for valve manufacturers and automakers to effectively serve local markets and remain competitive on a global scale..

Key Market Players

Mahle Group

Knorr-Bremse AG

Hitachi Ltd.

Federal-Mogul Holdings Corp

Eaton Corporation Plc.

Denso Corporation

FUJI OOX Inc.

FTE automotive GmbH

Delphi Automotive PLC

Continental AG

Report Scope:

In this report, the Global Passenger Car Engine Valves Market has been segmented into the following categories, in addition to the industry trends which have also been

detailed below:

Passenger Car Engine Valves Market, By Vehicle Type:

SUV

Sedan

Hatchback

MUV

Passenger Car Engine Valves Market, By Technology:

Tappet Valves

Spring Return Valves

Desmodromic Valves

Quattrovalvole Valves

Passenger Car Engine Valves Market, By Fuel Type:

Gasoline

Diesel

Passenger Car Engine Valves Market, By Region:

North America

United States

Canada

Mexico

Europe & CIS

Germany

Spain

France

Russia

Italy

United Kingdom

Belgium

Asia-Pacific

China

India

Japan

Indonesia

Thailand

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

Turkey

Iran

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Passenger Car Engine Valves Market.

Available Customizations:

Global Passenger Car Engine Valves Market report with the given market data, Tech Sci 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).

Contents

1. INTRODUCTION

- 1.1. Product Overview
- 1.2. Key Highlights of the Report
- 1.3. Market Coverage
- 1.4. Market Segments Covered
- 1.5. Research Tenure Considered

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Market Overview
- 3.2. Market Forecast
- 3.3. Key Regions
- 3.4. Key Segments

4. IMPACT OF COVID-19 ON GLOBAL PASSENGER CAR ENGINE VALVES MARKET

5. GLOBAL PASSENGER CAR ENGINE VALVES MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Volume & Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Vehicle Type Market Share Analysis (SUV, Sedan, Hatchback, MUV)
 - 5.2.2. By Technology Market Share Analysis (Tappet Valves, Spring Return Valves, Desmodromic Valves, Quattrovalvole Valves)
 - 5.2.3. By Fuel Type Market Share Analysis (Gasoline and Diesel)

- 5.2.4. By Regional Market Share Analysis
 - 5.2.4.1. Asia-Pacific Market Share Analysis
 - 5.2.4.2. Europe & CIS Market Share Analysis
 - 5.2.4.3. North America Market Share Analysis
 - 5.2.4.4. South America Market Share Analysis
 - 5.2.4.5. Middle East & Africa Market Share Analysis
- 5.2.5. By Company Market Share Analysis (Top 5 Companies, Others - By Value, 2022)
- 5.3. Global Passenger Car Engine Valves Market Mapping & Opportunity Assessment
 - 5.3.1. By Vehicle Type Market Mapping & Opportunity Assessment
 - 5.3.2. By Technology Market Mapping & Opportunity Assessment
 - 5.3.3. By Fuel Type Market Mapping & Opportunity Assessment
 - 5.3.4. By Regional Market Mapping & Opportunity Assessment

6. ASIA-PACIFIC PASSENGER CAR ENGINE VALVES MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Volume & Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Vehicle Type Market Share Analysis
 - 6.2.2. By Technology Market Share Analysis
 - 6.2.3. By Fuel Type Market Share Analysis
 - 6.2.4. By Country Market Share Analysis
 - 6.2.4.1. China Market Share Analysis
 - 6.2.4.2. India Market Share Analysis
 - 6.2.4.3. Japan Market Share Analysis
 - 6.2.4.4. Indonesia Market Share Analysis
 - 6.2.4.5. Thailand Market Share Analysis
 - 6.2.4.6. South Korea Market Share Analysis
 - 6.2.4.7. Australia Market Share Analysis
 - 6.2.4.8. Rest of Asia-Pacific Market Share Analysis
- 6.3. Asia-Pacific: Country Analysis
 - 6.3.1. China Passenger Car Engine Valves Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Volume & Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Vehicle Type Market Share Analysis
 - 6.3.1.2.2. By Technology Market Share Analysis
 - 6.3.1.2.3. By Fuel Type Market Share Analysis

- 6.3.2. India Passenger Car Engine Valves Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Volume & Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Vehicle Type Market Share Analysis
 - 6.3.2.2.2. By Technology Market Share Analysis
 - 6.3.2.2.3. By Fuel Type Market Share Analysis
- 6.3.3. Japan Passenger Car Engine Valves Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Volume & Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Vehicle Type Market Share Analysis
 - 6.3.3.2.2. By Technology Market Share Analysis
 - 6.3.3.2.3. By Fuel Type Market Share Analysis
- 6.3.4. Indonesia Passenger Car Engine Valves Market Outlook
 - 6.3.4.1. Market Size & Forecast
 - 6.3.4.1.1. By Volume & Value
 - 6.3.4.2. Market Share & Forecast
 - 6.3.4.2.1. By Vehicle Type Market Share Analysis
 - 6.3.4.2.2. By Technology Market Share Analysis
 - 6.3.4.2.3. By Fuel Type Market Share Analysis
- 6.3.5. Thailand Passenger Car Engine Valves Market Outlook
 - 6.3.5.1. Market Size & Forecast
 - 6.3.5.1.1. By Volume & Value
 - 6.3.5.2. Market Share & Forecast
 - 6.3.5.2.1. By Vehicle Type Market Share Analysis
 - 6.3.5.2.2. By Technology Market Share Analysis
 - 6.3.5.2.3. By Fuel Type Market Share Analysis
- 6.3.6. South Korea Passenger Car Engine Valves Market Outlook
 - 6.3.6.1. Market Size & Forecast
 - 6.3.6.1.1. By Volume & Value
 - 6.3.6.2. Market Share & Forecast
 - 6.3.6.2.1. By Vehicle Type Market Share Analysis
 - 6.3.6.2.2. By Technology Market Share Analysis
 - 6.3.6.2.3. By Fuel Type Market Share Analysis
- 6.3.7. Australia Passenger Car Engine Valves Market Outlook
 - 6.3.7.1. Market Size & Forecast
 - 6.3.7.1.1. By Volume & Value
 - 6.3.7.2. Market Share & Forecast

- 6.3.7.2.1. By Vehicle Type Market Share Analysis
- 6.3.7.2.2. By Technology Market Share Analysis
- 6.3.7.2.3. By Fuel Type Market Share Analysis

7. EUROPE & CIS PASSENGER CAR ENGINE VALVES MARKET OUTLOOK

7.1. Market Size & Forecast

- 7.1.1. By Volume & Value

7.2. Market Share & Forecast

- 7.2.1. By Vehicle Type Market Share Analysis
- 7.2.2. By Technology Market Share Analysis
- 7.2.3. By Fuel Type Market Share Analysis
- 7.2.4. By Country Market Share Analysis
 - 7.2.4.1. Germany Market Share Analysis
 - 7.2.4.2. Spain Market Share Analysis
 - 7.2.4.3. France Market Share Analysis
 - 7.2.4.4. Russia Market Share Analysis
 - 7.2.4.5. Italy Market Share Analysis
 - 7.2.4.6. United Kingdom Market Share Analysis
 - 7.2.4.7. Belgium Market Share Analysis
 - 7.2.4.8. Rest of Europe & CIS Market Share Analysis

7.3. Europe & CIS: Country Analysis

7.3.1. Germany Passenger Car Engine Valves Market Outlook

- 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Volume & Value
- 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Vehicle Type Market Share Analysis
 - 7.3.1.2.2. By Technology Market Share Analysis
 - 7.3.1.2.3. By Fuel Type Market Share Analysis

7.3.2. Spain Passenger Car Engine Valves Market Outlook

- 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Volume & Value
- 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Vehicle Type Market Share Analysis
 - 7.3.2.2.2. By Technology Market Share Analysis
 - 7.3.2.2.3. By Fuel Type Market Share Analysis

7.3.3. France Passenger Car Engine Valves Market Outlook

- 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Volume & Value

- 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Vehicle Type Market Share Analysis
 - 7.3.3.2.2. By Technology Market Share Analysis
 - 7.3.3.2.3. By Fuel Type Market Share Analysis
- 7.3.4. Russia Passenger Car Engine Valves Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Volume & Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Vehicle Type Market Share Analysis
 - 7.3.4.2.2. By Technology Market Share Analysis
 - 7.3.4.2.3. By Fuel Type Market Share Analysis
- 7.3.5. Italy Passenger Car Engine Valves Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Volume & Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Vehicle Type Market Share Analysis
 - 7.3.5.2.2. By Technology Market Share Analysis
 - 7.3.5.2.3. By Fuel Type Market Share Analysis
- 7.3.6. United Kingdom Passenger Car Engine Valves Market Outlook
 - 7.3.6.1. Market Size & Forecast
 - 7.3.6.1.1. By Volume & Value
 - 7.3.6.2. Market Share & Forecast
 - 7.3.6.2.1. By Vehicle Type Market Share Analysis
 - 7.3.6.2.2. By Technology Market Share Analysis
 - 7.3.6.2.3. By Fuel Type Market Share Analysis
- 7.3.7. Belgium Passenger Car Engine Valves Market Outlook
 - 7.3.7.1. Market Size & Forecast
 - 7.3.7.1.1. By Volume & Value
 - 7.3.7.2. Market Share & Forecast
 - 7.3.7.2.1. By Vehicle Type Market Share Analysis
 - 7.3.7.2.2. By Technology Market Share Analysis
 - 7.3.7.2.3. By Fuel Type Market Share Analysis

8. NORTH AMERICA PASSENGER CAR ENGINE VALVES MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Volume & Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Vehicle Type Market Share Analysis

- 8.2.2. By Technology Market Share Analysis
- 8.2.3. By Fuel Type Market Share Analysis
- 8.2.4. By Country Market Share Analysis
 - 8.2.4.1. United States Market Share Analysis
 - 8.2.4.2. Mexico Market Share Analysis
 - 8.2.4.3. Canada Market Share Analysis
- 8.3. North America: Country Analysis
 - 8.3.1. United States Passenger Car Engine Valves Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Volume & Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Vehicle Type Market Share Analysis
 - 8.3.1.2.2. By Technology Market Share Analysis
 - 8.3.1.2.3. By Fuel Type Market Share Analysis
 - 8.3.2. Mexico Passenger Car Engine Valves Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Volume & Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Vehicle Type Market Share Analysis
 - 8.3.2.2.2. By Technology Market Share Analysis
 - 8.3.2.2.3. By Fuel Type Market Share Analysis
 - 8.3.3. Canada Passenger Car Engine Valves Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Volume & Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Vehicle Type Market Share Analysis
 - 8.3.3.2.2. By Technology Market Share Analysis
 - 8.3.3.2.3. By Fuel Type Market Share Analysis

9. SOUTH AMERICA PASSENGER CAR ENGINE VALVES MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Volume & Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Vehicle Type Market Share Analysis
 - 9.2.2. By Technology Market Share Analysis
 - 9.2.3. By Fuel Type Market Share Analysis
 - 9.2.4. By Country Market Share Analysis
 - 9.2.4.1. Brazil Market Share Analysis

- 9.2.4.2. Argentina Market Share Analysis
- 9.2.4.3. Colombia Market Share Analysis
- 9.2.4.4. Rest of South America Market Share Analysis
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Passenger Car Engine Valves Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Volume & Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Vehicle Type Market Share Analysis
 - 9.3.1.2.2. By Technology Market Share Analysis
 - 9.3.1.2.3. By Fuel Type Market Share Analysis
 - 9.3.2. Colombia Passenger Car Engine Valves Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Volume & Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Vehicle Type Market Share Analysis
 - 9.3.2.2.2. By Technology Market Share Analysis
 - 9.3.2.2.3. By Fuel Type Market Share Analysis
 - 9.3.3. Argentina Passenger Car Engine Valves Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Volume & Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Vehicle Type Market Share Analysis
 - 9.3.3.2.2. By Technology Market Share Analysis
 - 9.3.3.2.3. By Fuel Type Market Share Analysis

10. MIDDLE EAST & AFRICA PASSENGER CAR ENGINE VALVES MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Volume & Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Vehicle Type Market Share Analysis
 - 10.2.2. By Technology Market Share Analysis
 - 10.2.3. By Fuel Type Market Share Analysis
 - 10.2.4. By Country Market Share Analysis
 - 10.2.4.1. Turkey Market Share Analysis
 - 10.2.4.2. Iran Market Share Analysis
 - 10.2.4.3. Saudi Arabia Market Share Analysis

- 10.2.4.4. UAE Market Share Analysis
- 10.2.4.5. Rest of Middle East & Africa Market Share Africa
- 10.3. Middle East & Africa: Country Analysis
 - 10.3.1. Turkey Passenger Car Engine Valves Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Volume & Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Vehicle Type Market Share Analysis
 - 10.3.1.2.2. By Technology Market Share Analysis
 - 10.3.1.2.3. By Fuel Type Market Share Analysis
 - 10.3.2. Iran Passenger Car Engine Valves Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Volume & Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Vehicle Type Market Share Analysis
 - 10.3.2.2.2. By Technology Market Share Analysis
 - 10.3.2.2.3. By Fuel Type Market Share Analysis
 - 10.3.3. Saudi Arabia Passenger Car Engine Valves Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Volume & Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Vehicle Type Market Share Analysis
 - 10.3.3.2.2. By Technology Market Share Analysis
 - 10.3.3.2.3. By Fuel Type Market Share Analysis
 - 10.3.4. UAE Passenger Car Engine Valves Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Volume & Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Vehicle Type Market Share Analysis
 - 10.3.4.2.2. By Technology Market Share Analysis
 - 10.3.4.2.3. By Fuel Type Market Share Analysis

11. SWOT ANALYSIS

- 11.1. Strength
- 11.2. Weakness
- 11.3. Opportunities
- 11.4. Threats

12. MARKET DYNAMICS

12.1. Market Drivers

12.2. Market Challenges

13. MARKET TRENDS AND DEVELOPMENTS

14. COMPETITIVE LANDSCAPE

14.1. Company Profiles (Up to 10 Major Companies)

14.1.1. Mahle Group

14.1.1.1. Company Details

14.1.1.2. Key Product Offered

14.1.1.3. Financials (As Per Availability)

14.1.1.4. Recent Developments

14.1.1.5. Key Management Personnel

14.1.2. Knorr-Bremse AG

14.1.2.1. Company Details

14.1.2.2. Key Product Offered

14.1.2.3. Financials (As Per Availability)

14.1.2.4. Recent Developments

14.1.2.5. Key Management Personnel

14.1.3. Hitachi Ltd.

14.1.3.1. Company Details

14.1.3.2. Key Product Offered

14.1.3.3. Financials (As Per Availability)

14.1.3.4. Recent Developments

14.1.3.5. Key Management Personnel

14.1.4. Federal-Mogul Holdings Corp

14.1.4.1. Company Details

14.1.4.2. Key Product Offered

14.1.4.3. Financials (As Per Availability)

14.1.4.4. Recent Developments

14.1.4.5. Key Management Personnel

14.1.5. Eaton Corporation Plc

14.1.5.1. Company Details

14.1.5.2. Key Product Offered

14.1.5.3. Financials (As Per Availability)

14.1.5.4. Recent Developments

- 14.1.5.5. Key Management Personnel
- 14.1.6. Denso Corporation
 - 14.1.6.1. Company Details
 - 14.1.6.2. Key Product Offered
 - 14.1.6.3. Financials (As Per Availability)
 - 14.1.6.4. Recent Developments
 - 14.1.6.5. Key Management Personnel
- 14.1.7. FUJI OOZX Inc
 - 14.1.7.1. Company Details
 - 14.1.7.2. Key Product Offered
 - 14.1.7.3. Financials (As Per Availability)
 - 14.1.7.4. Recent Developments
 - 14.1.7.5. Key Management Personnel
- 14.1.8. FTE automotive GmbH
 - 14.1.8.1. Company Details
 - 14.1.8.2. Key Product Offered
 - 14.1.8.3. Financials (As Per Availability)
 - 14.1.8.4. Recent Developments
 - 14.1.8.5. Key Management Personnel
- 14.1.9. Delphi Automotive PLC
 - 14.1.9.1. Company Details
 - 14.1.9.2. Key Product Offered
 - 14.1.9.3. Financials (As Per Availability)
 - 14.1.9.4. Recent Developments
 - 14.1.9.5. Key Management Personnel
- 14.1.10. Continental AG
 - 14.1.10.1. Company Details
 - 14.1.10.2. Key Product Offered
 - 14.1.10.3. Financials (As Per Availability)
 - 14.1.10.4. Recent Developments
 - 14.1.10.5. Key Management Personnel

15. STRATEGIC RECOMMENDATIONS

- 15.1. Key Focus Areas
 - 15.1.1. Target Regions
 - 15.1.2. Target Vehicle Type
 - 15.1.3. Target By Technology

16. ABOUT US & DISCLAIMER

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