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Automotive Active Purge Pump Market Research Report – Forecast to 2032

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Description:

Automotive Active Purge Pump Market Overview

Automotive Active Purge Pump Market Size was valued at USD 0.1 Billion in 2022. The automotive active purge pump market industry is projected to grow from USD 0.14 Billion in 2023 to USD 2.066 Billion by 2032, exhibiting a compound annual growth rate (CAGR) of 40.00% during the forecast period (2023 - 2032). The automotive active purge pump market is significantly driven by market drivers such as increased awareness about emission and fuel efficiency among vehicle owners, which is expected to grow the market over the forecast period.

Automotive Active Purge Pump Market

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

Automotive Active Purge Pump Market Trends

Stringent regulations imposed by governments impose to limit carbon emissions is driving the market growth

The strict restrictions put forth by governments to reduce carbon emissions, which are primarily created by diesel- or gasoline-powered vehicles, are one of the major drivers fueling the growth of the worldwide automotive active purge pump market CAGR. Petrol fuel vapors include benzene, which poses health risks if inhaled. In addition, photochemical haze, which is brought on by sunshine and exhaust pollutants, is a significant issue in megacities. Thus, new gasoline-powered cars are equipped with an onboard technology that lowers greenhouse gas emissions from hydrocarbons. In order to comply with strict hydrocarbon evaporation regulations and standards around the world, Continental AG supplies an active purge pump that is a component of the evaporative fuel processing system. Automotive active purge pumps include on-board diagnostics testing systems (OBD) monitoring systems, which aid in the accurate identification of hydrocarbon evaporations. Furthermore, government efforts in several countries to reduce vehicle emissions, as well as rising consumer preference for low-emission vehicles such as hybrid vehicles, battery-powered electric vehicles, and plug-in hybrid electric vehicles, are expected to boost sales of automotive active purge pumps and create enormous opportunities for market growth during the forecast period. During the forecast period, these factors are predicted to increase demand for automotive active purge pumps.

Weight and cost reduction are two other major factors boosting the market for automotive active purge pumps globally. Automotive suppliers are looking at lighter components for weight reduction in order to meet the demand for lower emissions and greater mileage due to strict environmental regulations and the surge in demand for vehicles with improved fuel efficiency. The development of lightweight raw materials by Tier-II suppliers without sacrificing component structural integrity is now a top priority, and this is anticipated to have a positive effect on the expansion of the Automotive Active Purge Pump market over the course of the forecast period.

The presence of a DC motor in an automotive active purge pump is predicted to boost market expansion because it is a crucial component responsible for the movement of an automotive active purge pump. A brushless DC motor is an important component that is required to power the automobile active purge pumps. Furthermore, the high price of brushless DC motors is a crucial driver driving the significant market expansion. As a result, the market for DC motors is expected to grow significantly. Thus, driving the automotive active purge pump market revenue.

Automotive Active Purge Pump Market Segment Insights

Automotive Active Purge Pump Components Insights

The Automotive Active Purge Pump market segmentation, based on components includes DC Motor, Sensors and Actuator. The DC motor segment dominated the market because it is an essential

component that controls how the active purge pump in an automobile operates. A brushless DC motor is a crucial part needed to power the active purge pumps in automobiles. The considerable market share of the sector in the worldwide market is also primarily due to the high cost of brushless DC motors. As a result, the DC motor industry is anticipated to experience significant growth in the years to come.

Automotive Active Purge Pump Material Insights

The Automotive Active Purge Pump market segmentation, based on material, includes Metal and Non-Metal. The non-metal category generated the most income. Due to their affordability and accessibility, non-metal automobile active purge pumps are in high demand. Metal components are now frequently replaced by non-metals as a result of advancements in the field of metallurgy (material technology). Non-metals are affordable, adaptable, and light. During the projection period, the non-metal segment of the market for automotive active purge pump is anticipated to grow due to their superior moulding capacity to create delicate shapes and designs, particularly for casing.

Figure 1 Automotive Active Purge Pump Market, by Material, 2022 & 2032 (USD Billion)

Automotive Active Purge Pump Market, by Material, 2022 & 2032

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

Automotive Active Purge Pump Manufacturing Process Insights

The Automotive Active Purge Pump market segmentation, based on manufacturing process, includes Cutting, Vacuum Forming and Injection Molding. The vacuum forming category generated the most income. It is because of its capacity to cut both production time and product manufacturing costs. The automotive sector often uses the vacuum forming manufacturing process for mass production, thus there is projected to be significant demand worldwide.

Automotive Active Purge Pump 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 active purge pump market area will dominate this market as a result of this area's widespread use of automobiles. Additionally, the market for automotive active purge pumps is growing as a result of rising disposable income and increasing driving awareness. Increasing environmental awareness in the area and rising automotive automobile demand are anticipated to drive the market for automotive active purge pumps over the course of the projected period.

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 Active Purge Pump Market Share By Region 2022 (USD Billion)

Automotive Active Purge Pump Market Share By Region 2022

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

Europe automotive active purge pump market accounts for the second-largest market share. The adoption of car active purge pumps in the area is largely attributable to greater awareness of strict emission regulations. The area is also home to important automakers, who are anticipated to play a major role in the region's market growth for automotive active purge pumps. Further, the German automotive active purge pump market held the largest market share, and the UK automotive active purge pump market was the fastest growing market in the European region

The Asia-Pacific Automotive active purge pump Market is expected to grow at the fastest CAGR from 2023 to 2032 as the region's demand for cars has rapidly increased in recent years, particularly in nations like China and India. Factors including rising disposable incomes, urbanization, and shifting lifestyles have all contributed to an increase in the need for mobility. The rising demand for autos leads to the expansion of this business, which is essential for adhering to emissions regulations and improving air quality. Moreover, China's automotive active purge pump market held the largest market share, and the Indian automotive active purge pump market was the fastest growing market in the Asia-Pacific region.

Automotive Active Purge Pump 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 active purge pump market, grow even more. Market participants are also undertaking a variety of strategic activities to expand their global 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 active purge pump 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 Active Purge Pump industry to benefit clients and increase the market sector. In recent years, the automotive active purge pump industry has offered some of the

most significant advantages to market. Major players in the automotive active purge pump market attempting to increase market demand by investing in research and development operations include Continental AG (Germany), Agilent Technologies (U.S.), Robert Bosch GmbH (Germany) and Denso Corporation (Japan).

Advanced automotive technology, systems, and components are created and supplied by Denso Corp (Denso). The business, along with its subsidiaries and affiliates, provides a large selection of original equipment manufacturing (OEM) vehicle components. Powertrain systems, thermal systems, electronic systems, electrification systems, information and safety systems, small motors, industrial systems like bar code readers, robots, automatic recognition systems, and home and industrial air conditioning equipment are just a few of its key products.

Agilent Technologies Inc is a supplier of equipment, chemicals, consumables, services, and software for complete lab workflow. Its product line includes, among other things, automation systems, microarray solutions, clinical and diagnostic tests, liquid and gas chromatography systems, and components. The business provides services to a variety of industries, including biotechnology, pharmaceuticals, contract research organisations (CROs) and contract manufacturing organisations (CMOs), chemical and energy, environmental and forensics, food, and others.

Key Companies in the automotive active purge pump market include

- · Continental AG (Germany)
- · Agilent Technologies (U.S.)
- · Robert Bosch GmbH (Germany)
- Denso Corporation (Japan)

Automotive Active Purge Pump Industry Developments

August 2019 In the European market, Continental AG began producing active purge pumps for automobiles.

January 2018 Electric automobile active purge pumps with variable pump speed and excellent emission control have been introduced by Rheinmetall automobile.

Automotive Active Purge Pump Market Segmentation

Automotive Active Purge Pump Components Outlook (USD Billion, 2018-2032)

- DC Motor
- Sensors
- Actuator

Automotive Active Purge Pump Material Outlook (USD Billion, 2018-2032)

- Metal
- Non-Metal

Automotive Active Purge Pump Manufacturing Process Outlook (USD Billion, 2018-2032)

- Cutting
- · Vacuum Forming
- · Injection Molding

Automotive Active Purge Pump 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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