

Automotive Tappets Market Report by Product (Roller Tappets, Flat Tappets), Engine (6 Cylinders Engine), Vehicle Type (Heavy Commercial Vehicles, Light Duty Vehicles), End-User (Economic Passenger Cars, Luxury Passenger Cars, Mid-Priced Passenger Cars), Distribution Channel (OEM, Aftermarket), and Region 2024-2032

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Abstracts

The global automotive tappets market size reached US\$ 9.1 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 12.6 Billion by 2032, exhibiting a growth rate (CAGR) of 3.5% during 2024-2032. The rising demand for automobiles, emerging technological advancements, and the implementation of stringent emission norms imposed by regulatory bodies due to growing environmental concerns are some of the major factors propelling the market.

Automotive tappets, also known as cam followers or valve lifters, are essential components in the internal combustion engines of vehicles. They are essential in maintaining proper valve clearance and ensure smooth engine operation. Tappets are positioned between the camshaft and the valves, and their function is to transfer the rotating motion of the camshaft to the valves, allowing them to open and close at the precise timing required for efficient engine performance. They are generally produced of hardened steel or other durable materials to withstand high temperatures and pressures. They are also designed with precision to minimize friction and maximize engine reliability and longevity.

The market is primarily driven by the increasing demand and production of automobiles. Additionally, consumers are showing a growing preference for vehicles that offer

improved efficiency and higher power output, leading to an expansion in product demand. Moreover, automotive tappets are essential in enhancing performance by adjusting valve timings and durations while the engine is operating. Besides this, the incorporation of these tappets enables the integration of multiple camshafts through mechanical linking systems, resulting in further enhanced power output which is accelerating the product adoption rate. Along with this, manufacturers are adopting innovative technologies and methods to produce hydraulic flat tappet camshafts (HFTC) to meet the fuel efficiency requirements of high-performance vehicles, thereby driving the global demand for automotive tappets. Furthermore, advancements in lubricant technology are also creating a positive market outlook.

Automotive Tappets Market Trends/Drivers:

The rising demand for automobiles

The automotive tappet market is significantly influenced by the increasing production of vehicles across the globe. The escalating demand for automobiles, including passenger cars and commercial vehicles is increasing the need for automotive tappets.

Automakers are continually expanding their production capacities to cater to the growing consumer demand, especially in emerging economies. This expansion leads to a higher installation of engines, thereby creating a parallel demand for automotive tappets. Moreover, the trend of electric and hybrid vehicles further contributes to the demand for tappets, as these vehicles also require internal combustion engines for hybrid powertrain configurations. Furthermore, the ongoing advancements in automotive manufacturing techniques, coupled with economies of scale, enable higher production rates, fueling the growth of the automotive tappet market.

The emerging technological advancements

The continuous innovations in engine designs and materials used in tappet manufacturing are improving the performance and efficiency of vehicles. Additionally, lightweight tappets help reduce the weight of the engine, enhancing fuel efficiency and reducing emissions contributing to market growth. Moreover, the integration of advanced materials such as carbon composites or ceramics in tappet construction improves durability and reduces friction, resulting in enhanced engine performance. Besides this, the introduction of variable valve timing (VVT) systems, which optimize valve operation based on engine conditions, is further accelerating the demand for specialized tappets designed to work with these systems. These technological advancements not only enhance the performance of vehicles but also drive to meet stringent emission regulations and fuel efficiency standards imposed by various

countries.

The implementation of government regulations

Governments worldwide are increasingly focused on reducing carbon emissions and improving air quality, prompting automakers to develop more fuel-efficient and environmentally friendly vehicles. Additionally, the increasing inclination towards cleaner technologies led to the adoption of advanced engine technologies, including tappets with enhanced designs. Tappets that minimize friction, optimize valve timing and improve combustion efficiency are in demand to comply with stringent emission norms. Along with this, automakers are investing in research and development (R&D) to introduce innovative tappet designs that contribute to reduced emissions and improved fuel economy. The adherence to emission regulations not only ensures environmental sustainability but also drives market growth by stimulating the demand for technologically advanced automotive tappets.

Automotive Tappets Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global automotive tappets market report, along with forecasts at the global and regional from 2024-2032. Our report has categorized the market based on product, engine, vehicle type, end user, and distribution channel.

Breakup by Product:

Roller Tappets

Flat Tappets

Flat tappets dominate the market

The report has provided a detailed breakup and analysis of the market based on the product. This includes roller tappets and flat tappets. According to the report, flat tappets represented the largest segment.

Flat tappets have been extensively utilized in various engine architectures for many years and are commonly found in older or traditional engines. Moreover, flat tappets offer simplicity in design and manufacturing, resulting in cost-effective production compared to more advanced tappet technologies. They are typically made of hardened steel, making them durable and capable of withstanding high engine loads. Consequently, the combination of their historical usage, widespread application, cost-

effectiveness, and aftermarket demand solidifies flat tappets as the largest market segment within the automotive tappet industry.

Breakup by Engine:

6 Cylinders Engine

4–6 cylinders engines hold the largest share in the market

A detailed breakup and analysis of the market based on the engine have also been provided in the report. This includes 6 cylinders engine. According to the report, 4-6 cylinders engines accounted for the largest market share.

4-6 cylinders engines are the most commonly employed engine configuration found in numerous vehicles, including passenger cars, SUVs, and light commercial vehicles. Moreover, 4-6 cylinders engines strike a balance between performance and fuel efficiency as they offer sufficient power for everyday driving needs while maintaining reasonable fuel economy. Furthermore, advancements in engine technology led to the development of smaller, more efficient engines with higher power outputs. Besides this, many manufacturers are now using turbocharging and direct injection technologies to enhance the performance of smaller engines. These technologies often find their applications in 4-6 cylinder engines, further driving the market growth.

Breakup by Vehicle Type:

Heavy Commercial Vehicles

Light Duty Vehicles

Light duty vehicles accounted for the largest market share

The report has provided a detailed breakup and analysis of the market based on the vehicle type. This includes heavy commercial vehicles and light-duty vehicles. According to the report, light-duty vehicles represented the largest segment.

The rising demand for light-duty vehicles (LDVs) for personal transportation purposes among individuals is increasing their market share. In addition, the extensive use of LDVs in several vehicles such as passenger cars, SUVs, and pickup trucks is contributing to the market growth. Moreover, LDVs are also preferred for daily commuting, family transportation, and recreational activities. Besides this, LDVs are

constantly evolving with advancements in technology, comfort features, and safety standards that drives the need for continuous improvements in engine performance and efficiency, including the optimization of valve operation through automotive tappets, thus strengthening their position in the market.

Breakup by End-User:

Economic Passenger Cars
Luxury Passenger Cars
Mid-Priced Passenger Cars

Luxury passenger cars represent the largest end user segment

The report has provided a detailed breakup and analysis of the market based on the end user. This includes economic passenger cars, luxury passenger cars, and mid-priced passenger cars. According to the report, luxury passenger cars represented the largest segment.

Luxury passenger cars represent the largest market segment by end users in the automotive tappet industry. Additionally, with the rising demand for luxury cars, manufacturers are prioritizing superior engine performance and smooth operation to provide a premium driving experience. As a result, they extensively invest in advanced engine technologies, including precision-engineered tappets. These high-end vehicles often employ complex engine configurations, such as multi-camshaft setups or variable valve timing (VVT) systems, which require specialized tappets to optimize valve operation. The demand for high-quality tappets with precise tolerances, exceptional durability, and low friction is paramount in luxury passenger cars to ensure optimal power delivery, reduced noise, and enhanced fuel efficiency.

Furthermore, luxury passenger car owners are willing to pay a premium for superior quality and performance as they expect their vehicles to be equipped with the latest advancements in automotive technology, including engine components which is propelling the market growth.

Breakup by Distribution Channel:

OEM
Aftermarket

The majority of the automotive tappets are distributed through OEMs

The report has provided a detailed breakup and analysis of the market based on the distribution channel. This includes OEM and aftermarket. According to the report, OEM represented the largest segment.

The original equipment manufacturer (OEM) segment represents the largest market segment by distribution channel. Additionally, OEMs are the primary manufacturers of vehicles, and automotive tappets are integrated into engines during the initial vehicle production process. As a result, OEMs have a direct and substantial demand for tappets to equip their vehicles with reliable and high-quality components. OEMs also have long-standing relationships with tappet suppliers, collaborating closely on design specifications, quality standards, and production volumes contributing to market growth. Moreover, OEMs produce vehicles in large volumes, resulting in higher procurement quantities of automotive tappets. Also, bulk purchasing allows OEMs to negotiate favorable pricing with suppliers and achieve cost savings. Furthermore, OEMs have established global distribution networks, extensive dealer networks, and brand recognition, which enable them to reach a wide customer base across different regions.

Breakup by Region:

North America

Europe

Asia Pacific

Middle East and Africa

Latin America

Asia Pacific exhibits a clear dominance in the market

The report has also provided a comprehensive analysis of all the major regional markets, which include North America, Europe, Asia Pacific, Latin America, and the Middle East and Africa. According to the report, Asia Pacific was the largest market.

Asia Pacific is the largest regional market for automotive tappets due to the expanding automotive industry. The region is home to the world's largest automotive manufacturers, including China, Japan, South Korea, and India. These countries have experienced substantial economic growth, leading to increased urbanization, rising disposable incomes, and a growing middle class. As a result, there is a higher demand for vehicles in the region, driving the need for automotive tappets. Moreover, Asia

Pacific benefits from favorable cost structures as it offers competitive labor costs, which make production more cost-effective compared to other regions. This cost advantage attracts global automotive manufacturers to set up production facilities in the Asia Pacific, leading to increased demand for automotive tappets.

Competitive Landscape:

The competitive landscape of the market is characterized by intense competition among key players striving to gain a larger market share. The market comprises global and regional manufacturers, each focusing on innovation, product differentiation, and strategic partnerships to maintain a competitive edge. They strive to maintain their market position through product innovation, quality enhancement, expansion into emerging markets, and strategic collaborations with OEMs and aftermarket distributors. Additionally, key players are investing in research and development (R&D) activities to introduce innovative tappet designs and technologies. They are also focusing on enhancing product performance, durability, and efficiency by continuously improving their product offerings to attract customers seeking advanced and reliable tappets.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Schaeffler AG
SKF Group
Crower Cams & Equipment Co.
Federal-Mogul Corporation (Tenneco, Inc.)
Lunati LLC
SM Motorenteile GmbH
Yuhuan Huiyu Tappets Co., Ltd.
Eaton Corporation plc
Competition Cams, Inc.
Rane Holdings Limited
Wuxi Xizhou Machinery Co., Ltd.
NSK Ltd.
SSV Valve
RSR Industries.

Recent Developments:

Schaeffler AG is focusing on optimizing the design and material of their tappets to reduce engine noise and improve durability.

Eaton Corporation plc announced the expansion of its aftermarket mobile power portfolio to include a new electrified power takeoff. This is expected to expand its product portfolio while offering a one-stop solution for its customer's mobile power needs.

Federal-Mogul Corporation is developing tappets that are more wear-resistant and durable, reducing the frequency of replacement and maintenance for vehicles.

Key Questions Answered in This Report:

How has the global automotive tappets market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global automotive tappets market?

What is the impact of each driver, restraint, and opportunity on the global automotive tappets market?

What are the key regional markets?

Which countries represent the most attractive automotive tappets market?

What is the breakup of the market based on the product?

Which is the most attractive product type in the automotive tappets market?

What is the breakup of the market based on the engine?

Which is the most attractive engine in the automotive tappets market?

What is the breakup of the market based on the vehicle type?

Which is the most attractive vehicle type in the automotive tappets market?

What is the breakup of the market based on the end user?

Which is the most attractive end-user in the automotive tappets market?

What is the breakup of the market based on the distribution channel?

Which is the most attractive distribution channel in the automotive tappets market?

What is the competitive structure of the global automotive tappets market?

Who are the key players/companies in the global automotive tappets market?

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