

Automotive Brake Booster Market Report by Product Type (Single Diaphragm Booster, Dual Diaphragm Booster, and Others), Vehicle Type (Passenger Cars, Commercial Vehicles), End-User (OEMs, Replacement), and Region 2024-2032

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Abstracts

The global automotive brake booster market size reached 132.8 Million Units in 2023. Looking forward, IMARC Group expects the market to reach 240.9 Million Units by 2032, exhibiting a growth rate (CAGR) of 6.6% during 2024-2032. The market is experiencing steady growth driven by the escalating emphasis on vehicle safety and stringent global safety regulations mandating advanced braking systems, the expansion of the automotive sector in emerging economies, and advancements, particularly in integrating brake boosters with electronic systems.

Automotive Brake Booster Market Analysis:

Market Growth and Size: The market is experiencing significant growth, driven by the increasing demand for vehicle safety and stringent regulatory standards. The market's expansion is further buoyed by the rising production and sales of automobiles globally, particularly in emerging economies. This growth trajectory indicates a robust market size, with a positive outlook for the future.

Technological Advancements: Technological innovation is a key factor in the market's evolution. Advances in integrating brake systems with electronic components, such as ABS and ESC, are enhancing vehicle safety and efficiency. The development of electric and electro-hydraulic brake boosters aligns with the shift towards more environmentally friendly automotive technologies, making these advancements crucial for market growth.

Industry Applications: Brake boosters are increasingly becoming a standard feature across various vehicle segments, from economy cars to luxury vehicles. Their

application is not limited to conventional vehicles but extends to electric and hybrid models, accommodating the automotive industry's shift towards sustainable mobility. This wide-ranging application across different vehicle types underscores their importance in the automotive industry.

Key Market Trends: A major trend in the market is the integration of advanced braking systems in response to growing safety standards. Another trend is the shift towards electrically powered brake systems, catering to the growing electric vehicle market. These trends reflect the industry's adaptation to both regulatory demands and consumer preferences.

Geographical Trends: The market is witnessing significant growth in emerging economies such as China, India, and Brazil, driven by increased vehicle production and sales. In contrast, established markets including Europe and North America continue to innovate in brake booster technology, maintaining their market dominance. This geographical variation highlights diverse growth dynamics in different regions.

Competitive Landscape: The market is characterized by the presence of both established players and emerging contenders. Competition is intense, with companies focusing on technological innovation, strategic partnerships, and expanding their global footprint. This competitive environment is fostering a continuous drive for innovation and improvement in the sector.

Challenges and Opportunities: One of the major challenges in the market is the high cost associated with advanced brake booster systems, potentially impacting their adoption in cost-sensitive markets. However, this also presents opportunities for manufacturers to innovate cost-effective solutions. Additionally, the transition towards electric and autonomous vehicles offers new avenues for growth and development in the brake booster technology space.

Automotive Brake Booster Market Trends:

Increasing emphasis on vehicle safety and stringent regulations

The market is significantly influenced by the growing emphasis on vehicle safety. This trend is further propelled by stringent safety regulations imposed by governments worldwide. These regulations mandate the integration of advanced braking systems to ensure higher safety standards. Additionally, the increased public awareness regarding road safety is prompting manufacturers to incorporate these systems as standard features in both economy and luxury vehicles. This regulatory and consumer demand convergence is creating a robust environment for the growth of the brake booster market, as manufacturers innovate and enhance their offerings to meet these elevated safety benchmarks.

Technological advancements and integration with electronic systems

Technological advancements play a pivotal role in shaping the market. Along with this, the integration of electronic systems, such as Anti-lock Braking Systems (ABS) and Electronic Stability Control (ESC), is a key factor driving market growth. This integration enhances vehicle control and reduces stopping distances, thereby improving overall vehicle performance and safety. In addition, innovations in brake booster technology, such as the development of electric and electro-hydraulic systems, are catering to the evolving needs of modern vehicles, including electric and hybrid models. These advancements improve the efficiency of braking systems and align with the global shift towards more environmentally friendly automotive technologies.

Expansion of the automotive sector in emerging economies

The expansion of the automotive sector in emerging economies is another significant driver for the market. Countries such as China, India, and Brazil are witnessing substantial growth in automobile production and sales, fueled by increasing consumer spending power and urbanization. This growth is leading to a higher demand for automotive components, including brake boosters. In addition, the local manufacturing and assembly of vehicles in these regions are being encouraged by government incentives, which in turn are providing a boost to the demand for automotive parts. The increasing investment by global automobile manufacturers in these markets further amplifies the potential for the market, making it a key area of focus for component manufacturers and suppliers.

Automotive Brake Booster Industry Segmentation:

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

Breakup by Product Type:

- Single Diaphragm Booster
- Dual Diaphragm Booster
- Others

Single diaphragm booster accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the

product type. This includes single diaphragm booster, dual diaphragm booster, and others. According to the report, single diaphragm booster represented the largest segment.

The single diaphragm booster segment holds the largest share of the market. This dominance is attributed to its widespread use in passenger vehicles, especially in the compact and mid-size segments. Single diaphragm boosters are preferred for their simplicity, cost-effectiveness, and reliability. They are particularly suitable for vehicles where engine compartment space is limited, as they require less space compared to their dual diaphragm counterparts. Despite the emergence of more advanced technologies, the demand for single diaphragm boosters remains strong, especially in emerging economies and in the budget vehicle sector, where cost considerations often dictate component selection. Their enduring popularity is underpinned by a proven track record of providing adequate braking power for a wide range of vehicles, making them a staple in the market.

On the contrary, the dual diaphragm booster segment, while smaller than the single diaphragm booster, is significant, particularly in larger vehicles such as SUVs, trucks, and luxury cars. Dual diaphragm boosters offer enhanced braking performance and are better suited for heavier vehicles or those requiring greater braking force. The dual-diaphragm design allows for a more efficient transfer of force from the brake pedal to the brake system, providing a more responsive braking experience. Along with this, the demand for dual diaphragm boosters is also supported by the evolving landscape of vehicle design, where more powerful braking systems are required to match increased vehicle power and weight, particularly in the context of the expanding SUV and luxury vehicle markets.

Breakup by Vehicle Type:

Passenger Cars

Commercial Vehicles

Commercial vehicles holds the largest share of the industry

A detailed breakup and analysis of the market based on the vehicle type have also been provided in the report. This includes passenger cars and commercial vehicles.

According to the report, commercial vehicles accounted for the largest market share.

The commercial vehicles segment occupies the largest share of the market. This

dominance is primarily due to the critical need for robust and efficient braking systems in commercial transportation. Commercial vehicles, which include trucks, buses, and vans, are often subject to intense operational demands, carrying heavy loads over long distances. Consequently, the reliability and effectiveness of brake boosters are paramount in this segment. The higher wear and tear associated with commercial vehicles also necessitates more frequent replacements and upgrades of brake components, including boosters. Additionally, the ongoing growth in global trade and logistics, coupled with the expansion of e-commerce, is leading to an increased demand for commercial vehicles, thereby driving the market for automotive brake boosters in this sector. Manufacturers in this segment focus on developing durable, high-performance brake boosters to meet the rigorous safety and performance standards required in commercial vehicle operations.

On the other hand, the passenger cars segment remains significant and is characterized by diverse requirements and innovations. In passenger cars, brake boosters must balance performance with size constraints and cost considerations. This segment includes a wide range of vehicles, from compact cars to luxury sedans, each with distinct braking requirements. The focus in the passenger car sector is on enhancing driver comfort and braking responsiveness, making brake boosters a key component in vehicle safety and performance. Along with this, the rising demand for safer, more efficient vehicles, along with the growth in global car ownership, especially in emerging economies, continues to fuel the development and adoption of advanced brake boosters in passenger cars.

Breakup by End-User:

OEMs

Replacement

OEMs represents the leading market segment

The report has provided a detailed breakup and analysis of the market based on the end-user. This includes OEMs and replacement. According to the report, OEMs represented the largest segment.

The OEM segment commands the largest portion of the market. This dominance is influenced by the continuous production of new vehicles that necessitate the installation of brake boosters as essential safety components. OEMs integrate brake boosters directly into new vehicles, ensuring compliance with safety standards and performance

requirements. The demand in this segment is closely tied to global automotive production rates. With the increasing emphasis on vehicle safety and the implementation of stringent regulations worldwide, OEMs are constantly innovating and upgrading brake booster technology. This segment's growth is further bolstered by the rising production of electric and hybrid vehicles, which require specialized brake boosters compatible with regenerative braking systems. Additionally, the strong foothold of OEMs in the market is reflective of the automotive industry's ongoing expansion and the critical role of brake boosters in new vehicle manufacturing.

In addition, the replacement segment, while smaller than the OEM segment, plays a crucial role in the market. This segment caters to the aftermarket needs for brake boosters, addressing the demand for replacement parts due to wear and tear, failures, or upgrades. Moreover, the life span of brake boosters, influenced by factors such as vehicle usage intensity and driving conditions, necessitates periodic replacements, sustaining the demand in this market segment. The replacement market is also driven by vehicle owners' growing awareness of safety standards and the importance of maintaining effective braking systems. Apart from this, as vehicles age, the need for replacement brake boosters naturally increases, ensuring a consistent demand in this segment. The replacement market is characterized by the presence of a wide array of suppliers, including both original equipment manufacturers and independent aftermarket players, catering to a diverse customer base ranging from professional service centers to DIY enthusiasts.

Breakup by Region:

Asia Pacific

North America

Europe

Middle East and Africa

Latin America

Asia Pacific leads the market, accounting for the largest automotive brake booster market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia

Pacific accounted for the largest market share

The Asia Pacific region stands as the largest segment in the market, a position influenced by the rapid growth of the automotive industry in countries such as China, India, and Japan. This region benefits from a combination of large-scale vehicle production, increasing consumer demand for automobiles, and a growing emphasis on vehicle safety standards. Along with this, the presence of major automotive manufacturers and suppliers in this region, coupled with favorable government policies promoting automotive manufacturing, further contributes to its market dominance. In addition, the rising middle-class population in this region, with increasing disposable incomes, is providing a boost to the demand for both passenger and commercial vehicles, thereby driving the demand for automotive brake boosters.

In North America, the market is driven by advanced technological integration and stringent safety regulations. The United States and Canada, being home to some of the world's leading automobile manufacturers, exhibit a strong demand for high-quality and innovative brake booster systems. This region is characterized by high consumer awareness regarding vehicle safety and a preference for technologically advanced vehicles, including electric and autonomous models, which require specialized braking systems. The market here is also supported by a well-established replacement sector, catering to a large existing vehicle fleet.

Europe's market is notable for its focus on technological innovation and stringent environmental regulations. The region's emphasis on reducing vehicle emissions and improving safety standards is leading to the adoption of advanced brake systems, including sophisticated brake boosters. European countries, with their strong automotive manufacturing and design heritage, are home to several key automotive players, contributing to the region's significant market share. Moreover, Europe's shift towards electric vehicles is influencing the development of brake boosters compatible with electrified powertrains.

The Latin American market is influenced by the growing automotive production and sales in countries like Brazil and Mexico. This region benefits from the increasing investment by global automobile manufacturers and the availability of a cost-effective labor force. While the market size in Latin America is smaller compared to Asia Pacific, North America, and Europe, it shows potential for growth due to the expanding automotive sector and improving economic conditions in several countries.

The Middle East and Africa region, while a smaller segment in the automotive brake

booster market, is experiencing growth driven by an expanding automotive sector in certain countries. The market in this region is influenced by factors such as increasing urbanization, a growing middle-class population, and the subsequent rise in vehicle demand.

Leading Key Players in the Automotive Brake Booster Industry:

In the market, key players are actively engaging in various strategic activities to strengthen their market position. These companies are heavily investing in research and development to innovate and enhance brake booster technology, particularly focusing on efficiency, performance, and integration with advanced vehicle systems such as electronic stability control and anti-lock braking systems. Additionally, they are forming strategic partnerships and collaborations, both with vehicle manufacturers and technology firms, to expand their market reach and adapt to evolving industry trends, such as the shift towards electric and autonomous vehicles. Mergers and acquisitions are also a common strategy, allowing these players to broaden their technological capabilities and geographic presence. Furthermore, these companies are focusing on expanding their production capabilities and distribution networks, especially in high-growth regions such as Asia Pacific, to meet the increasing demand for automotive brake boosters.

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

Aisin Seiki Co., Ltd.
Hyundai Mobis
Continental
TRW Automotive
Mando Corporation
Robert Bosch GmbH
Nissin Kogyo
Hitachi
Jilin Dongguang Aowei Brake System Co., Ltd.
Wanxiang Group Corporation
Zhejiang VIE Science & Technology Co.
FTE automotive Group
APG
BWI Group
Wuhu Bethel

CARDONE

Liuzhou Wuling Automobile Industry Co., Ltd.

(Please note that this is only a partial list of the key players, and the complete list is provided in the report.)

Latest News:

January 10, 2024: Mando Corporation signed a letter of collaboration on mobility software with Amazon Web Services (AWS). The two firms' cooperation is noteworthy since it promotes developments in the software defined vehicle (SDV) era.

January 04, 2024: Wind River announced that Wind River Studio has been chosen by Hyundai Mobis, one of the biggest suppliers and creators of automotive technology worldwide, to expedite the development of software-defined vehicles.

December 18, 2023: Continnetal announced collaboration with Synopsys to expedite software feature and application development and certification for the software-defined vehicle (SDV).

Key Questions Answered in This Report

1. What was the size of the global automotive brake booster market in 2023?
2. What is the expected growth rate of the global automotive brake booster market during 2024-2032?
3. What are the key factors driving the global automotive brake booster market?
4. What has been the impact of COVID-19 on the global automotive brake booster market?
5. What is the breakup of the global automotive brake booster market based on the product type?
6. What is the breakup of the global automotive brake booster market based on the vehicle type?
7. What is the breakup of the global automotive brake booster market based on the end-user?
8. What are the key regions in the global automotive brake booster market?
9. Who are the key players/companies in the global automotive brake booster market?

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