Air Suspension Market Assessment, By Vehicle Type [Passenger Vehicles, Commercial Vehicles, Two-Wheelers], By Technology [Electronically Controlled Air Suspension, Non-Electronically Controlled Air Suspension], By Sales Channel [Original Equipment Manufacturer, Aftermarket], By Region, Opportunities and Forecast, 2018-2032F

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Report description:

Global air suspension market is projected to witness a CAGR of 5.68% during the forecast period 2025-2032, growing from USD 8.36 billion in 2024 to USD 13.01 billion in 2032. The market has experienced significant growth in recent years and is expected to maintain an expansion in the coming years owing to an expansion in the automotive sector, particularly in emerging markets. Growth in the automotive segment creates significant market growth opportunities for global air suspension system players as automakers increasingly focus on the performance and comfort of vehicles. Air suspension technology will significantly address the customer's expectation of smooth rides and better stability. Over the years, the growing demand for luxurious and high-performance vehicles drives the demand for advanced suspension systems and challenges manufacturers to innovate and integrate more features into a vehicle that discerning customers would find appealing to enhance ride quality. Technological advancements, including real-time adaptive systems and integration with advanced driver-assistance systems (ADAS), enhance the functionality and customizability of air suspension, thus making it more attractive to producers and consumers in equal measure.

Further, stringent regulations by regulatory bodies on the safety and emission standards of vehicles are forcing their use of air suspension systems, which assist manufacturers in conforming with stricter regulations on load management and stability. These growth drivers collectively help to shape a strong framework for the air suspension market to serve as one of the fundamental components in the larger automotive industry as the pace of consumer preferences changes with technological advancements. For instance, in July 2024, BWI Group announced its "All-by-wire 2035" global strategy, providing global customers with more

smart mobility solutions, leveraging its expertise in brake-by-wire, active suspension, and intelligent systems and architectures. Full active suspension products will help build multi-functional and highly comfortable smart cockpits for multi-scenario.

Expanding Production of Commercial Vehicle Drives Air Suspension Market

The growing production of commercial vehicles is one major growth factor in the global air suspension market. The demand for heavy trucks and buses, primarily due to increased construction activities and the expansion of logistics sectors, increases the need for advanced suspension systems. In commercial vehicles, air suspension systems are preferred for their potential to enhance ride quality, stability, as well as load management. The trend toward lightweight designs of vehicles is also boosting air suspension sales. Manufacturers can increasingly fit air suspension systems on their models to improve fuel efficiency and carbon emission, all in response to regulatory pressures and consumer demand to save the environment. Growing demand for light commercial vehicles due to the increased popularity of e-commerce and home delivery services has also been increasing the demand for air suspension. This has been due to the significance of safeguarding goods from the transit shocks resulting from irregularities in the roads. Therefore, the air suspension market is expected to be exposed to a steady growth trajectory due to the continued hike in the production of commercial vehicles in the world.

For instance, in March 2024 Hendrickson Holdings, L.L.C. Truck Commercial Vehicle Systems announces its lightest weight 46,000 lb., ROADMAAX Z, its lightest rear air suspension system. This innovation aims to increase the performance and efficiency of commercial vehicles, excellent on- and off-highway performance, ride quality, and cargo protection for demanding applications, highlighting the company's dedication to developing lightweight suspension systems that improve ride comfort and control.

Technological Advancements Fueling the Air Suspension Market Growth

Technological innovations have drastically transformed the air suspension market. The primary effect of technological innovation on the vehicle and overall performance in the air suspension market is its influence. The demand for electronically controlled air suspension (ECAS) is rising significantly due to ride height and damping characteristics, which can be altered in real-time with conditions dependent upon road types and loading on the vehicle. This adaptability increases comfort and enhances vehicle stability and handling; for these reasons, these systems are extremely desirable in luxury and high-performance automobiles. In addition, the combination of autonomous driving software with air suspension technology has become so widespread. Such integration enables this kind of technology to work for automatic leveling and more advanced safety, providing customers with greater interest in highly equipped suspension vehicles. The continuous technological advancements in air suspension foster market demand as it enhances comfort, safety, and performance coupled with automotive design.

For instance, in August 2023, Hendrickson Holdings, L.L.C. launched its innovative air and mechanical suspensions and axles for trailer applications in India. The products include the Hendrickson Severe Duty Suspension (HSDS) premium suspension, which is available in capacities ranging from 12T to 14T for the Indian market. The HSDS system incorporates a tire inflation and deflation system (Tiremaax Pro) and patented Tri-functional bushings.

Dominance of Electronically Controlled Air Suspension

The dominance of electronically controlled air suspension (ECAS) in the global air suspension market is increasingly evident as technological advancements and a shift in consumer preferences towards performance and comfort. ECAS technology allows for real-time adjustments to suspension settings based on various driving conditions, improving ride quality and stability. This adaptability is particularly appealing in luxury and commercial vehicles, where maintaining optimal performance under varying loads is critical. The rising adoption of ECAS in light-duty vehicles is a key driver of this growth, as it offers benefits such as automatic adjustment of damper levels and vehicle height, enhancing both safety and comfort during different driving scenarios. Moreover, the increasing focus on electric vehicles (EVs) further bolsters the demand for electronically controlled systems. As the global fleet of electric light-duty vehicles is expected to rise significantly, the need for air suspension systems that can manage additional battery weight while providing a smooth ride becomes paramount. ECAS systems are well-suited for this application, as they can automatically level the vehicle and adjust to changing weight distributions, ensuring consistent handling and stability.

For instance, in July 2023 ZF Friedrichshafen AG, a leading and disruptive all-electric commercial vehicle manufacturer and services provider, announced a long-term agreement, for some of the core systems and components in the all-electric Volta Zero with innovative technologies, including braking, suspension, and steering systems. In addition, ZF's OptiRide Electronically Controlled Air Suspension (ECAS) system fitted to the Volta Zero supports daily vehicle operations including docking and loading procedures through automatic and manual chassis height adjustments for improved driver safety, efficiency, and comfort.

Asia-Pacific Dominates Air Suspension Market Share

Asia-Pacific is likely to hold the highest share in the global air suspension market, led by several key factors including the expansion automotive sector and the presence of giant market players. Growth here can be largely attributed to commercial vehicles being increasingly manufactured in countries like China and India, where demands for heavy-duty trucks and buses are constantly rising due to rapid urbanization and infrastructure development. One of the major players in this market, however, is China. The country's automobile production has been rising sharply. It has witnessed gains from both heavy trucks and premium cars. For instance, luxury car markets in China have grown at an astonishing rate over the past ten years surpassing its passenger car market's growth rate in some countries. This should also lead to the expanded usage of air suspension technology in vehicles, driven by consumers looking for comfort and ride quality inside their vehicles.

For instance, in November 2024, BMW AG announced the launch of an updated BMW M340i in India, which features adaptive M-specific suspension and Intelligent xDrive air suspension as standard.

For instance, in June 2024 Nidec Corporation, a corporation that the Company owns in China, developed a new automotive air suspension motor for automobiles; by utilizing its long-nurtured technologies for brake and power steering motors and other drivetrain products, Nidec Motor (Dalian) has developed this latest air suspension motor. Compact, durable, and highly responsive during start-up, this product drives the air compressor, the component that supplies the air tank with compressed air.

Future Market Scenario (2025 – 2032F)

- Innovations such as electronically controlled air suspension systems and smart suspension technologies are enhancing vehicle performance and comfort.
- Growing consumer demand for premium and luxury vehicles equipped with advanced features, including air suspension systems.
- Stricter rules and regulations regarding vehicle emissions and safety are promoting the adoption of air suspension systems which can improve load management and stability while helping manufacturers meet compliance standards.

Key Players Landscape and Outlook

The global air suspension market is a dynamic and competitive marketplace, with a few major players at the top, showing aggressive moves in terms of innovation and technology. The leading companies are strengthening their market positions through strategic partnerships and investments in research and development; they focus on improving vehicle dynamics with advanced automotive technology. However, challenges relating to the high costs of these elaborate systems are likely to check the full-scale implementation of the high-end systems in the lower-end vehicle segments. Overall, the future for the global air suspension market is looking bright with innovation and attention to fine-tuning vehicle comfort and performance across all segments.

For instance, in October 2023, BWI Group partnered with ClearMotion, Inc. for a high volume active suspension business to supply essential full-active suspension components and subsystems to a leading Chinese New Energy Vehicle (NEV) manufacturer. This collaboration on the ClearMotion1 (CM1) high-bandwidth active suspension system, combines BWI Group's market-leading vehicle damping technology with ClearMotion, Inc.'s deep intellectual property portfolio and know-how of vehicle and hydraulic motor/pump control.

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