

## **Airless Tyres Market Size, Share and Growth Analysis Report - Forecast Trends and Outlook (2025-2034)**

Market Report | 2025-08-12 | 162 pages | EMR Inc.

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### **Report description:**

The global airless tyres market is expected to grow at a CAGR of 5.00% in the forecast period of 2025-2034.

### **Global Airless Tyres Market Growth**

The commercial vehicles segment is expected to see lucrative profits in the forecast period as a result of the ongoing efforts of industry players to introduce airless/non-pneumatic tyres (NPT) for commercial vehicles. For example, in January 2020, Bridgestone, one of the leading industry players, announced the launch of airless tyres for commercial vehicles. These offer higher durability and less wear and tear compared to regular tyres. Thus, the rising demand for tyres to sustain through tough road conditions in heavy-duty vehicles will support the market growth. In addition, the increasing focus of tyre manufacturers such as Goodyear and Michelin to build tyres for commercial vehicles and catalyse upon its increasing demand is anticipated to further strengthen the growth of airless tyres market.

### **Key Trends and Recent Developments**

Focus on sustainability, advancements in material technology, and integration of smart technology are a few factors shaping up the airless tyres market dynamics and trends.

March 2024

Michelin and General Motors plan to introduce their airless tyres on some vehicles. Made up of flexible spokes rather than air, the new UPTIS tyres will not puncture, eliminate accidents from blowouts, and use the same technology as the moon rovers.

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## Greater attention to sustainability

A key trend in the airless tyres market is the greater emphasis is put on the creation of green airless tyres, increasing recyclable content, and reducing the environment's impact. It delivers innovations further pushing the needle on sustainability through a reduction in waste and tyre life elongation that will help in accomplishing wider industry objectives of reducing carbon footprints.

## Material technology developments

This assembly is highly supported by the fact that there has been a high rise in new and better materials used in the airless tyre, such as advanced composites and improved polymers. These are toward enhancing durability, flexibility, and performance features related to prior weaknesses of the no-air tyres, hence opening other areas of application.

## Integration of smart technologies

Airless tyres are increasingly being integrated with smart technologies, such as sensors and monitoring systems. Such technologies monitor in real-time performance, wearing, and maintenance needs of the tyres, offering improved safety, efficiency, and comfort to consumers and fleet operators alike, opening up new airless tyres market opportunities.

## Airless Tyres Market Trends

### Growing Number of Benefits of Airless Tyres Over Pneumatic Tyres to Bolster the Growth of the Airless Tyres Industry

Airless tyres provide improved load-bearing capability, driving performance, and good environmental compatibility. Moreover, consumers are using these tyres to eliminate the need for spare tyres, as well as for high productivity in applications involving the manufacturing, farming, construction, and mining sectors. Apart from these benefits, airless tyres also have a low environmental impact. These tyres can reduce carbon emissions due to the elimination of energy loss in tyre resistance. In addition, the use of recyclable materials to produce these tyres and the efficient use of resources will drive the airless tyres industry growth. Also, the increase in the need for maintenance-free tyres, especially in military, utility, terrain, and commercial vehicles will continue to positively affect the market size of airless tyres.

Over the forecast period, the growing attention towards the agricultural sector is expected to be a key driver for the market, owing to the rising demand for agricultural machinery. Further, the growing technological advancements and the increasing R&D activities will also boost the industry growth.

## Industry Outlook

### The Growth in Rubber Production and Its Crucial Application in the Automotive Industry Drive the Growth of the Market.

Rubber is viewed as one of the critical raw materials in tyre production. Thailand tops the list of the world's rubber producers, accounting for 4,850,000 metric tons. This reflects a high level of development of the country's rubber industry, which is further enhanced by suitable climatic conditions and extensive areas covered by rubber plantations. Indonesia is the second-largest producer, with a share of 3,550,000 metric tons.

Vietnam comes third with 1,190,000 metric tons, thanks to its ever-expanding rubber plantation areas and investment in rubber processing technologies. India produced 911,000 metric tons, while China's production was 831,000 metric tons. Other huge suppliers of the commodity, these countries have large agricultural sectors and rising industrial demands that act as the driving

force behind their capabilities for rubber production. This becomes a significant trend of the airless tyres market.

Malaysia-one of the world's greatest producers of rubber throughout its history-now produces 730,000 metric tons, a continued strong position within world production despite increased competition from other Asian producers. Next on the list come Sri Lanka, Cote d'Ivoire, the Philippines, and Cameroon, which have outputs of 88,000, 77,000, 74,000, and 72,000 metric tons respectively. Such countries have smaller volumes of production but hold important regional positions and contribute to global supply chains.

Airless tyres play an important role in the automotive sector since they provide durability and long life. This growth in the automotive sector is likely to act as a booster for the market. Germany, a major player in the automotive industry, churned out more than 4.1 million vehicles, up 18%. South Korea turned in a total output of nearly 4.2 million units with a growth of 13%, helped by manufacturing nearly 3.9 million cars. The automotive sector performed well and the output came to over 4 million vehicles; within that, more than 3 million commercial vehicles were manufactured representing a growth of 14%. Factors as these are anticipated to boost the demand of airless tyres market.

#### Global Airless Tyres Industry Segmentation

"Global Airless Tyres Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

##### Market Breakup by Type

- Radial
- Bias

##### Market Breakup by Material

- Rubber
- Plastic

##### Market Breakup by Sales Channel

- OEM
- Aftermarket

##### Market Breakup by Vehicle Type

- Passenger Vehicles
- Commercial Vehicles
- Off-Road Vehicles
- Two Wheelers
- Others

##### Market Breakup by Region

- North America
- Europe
- Asia Pacific

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- Latin America
- Middle East and Africa

## Airless Tyres Market Share

### Radial Tire Segment Is Likely To Gain Traction For Its Excellent Performance Features

As per airless tyres market analysis, the radial tyre segment is expected to gain ground due to excellent performance characteristics over bias tyres. The demand for radial tyres will grow in the forecast period as they have better fuel efficiency and handling with improved durability, finding application in passenger and commercial vehicles. Their construction provides better road contact and a smoother ride, which enhances safety and comfort. Moreover, improvements to radial tyre technology through better raw materials and new manufacturing processes are a constant driver for their uses in a wide range of automotive applications and, hence, commanding a growing market share.

### Safety and Reliability-Durability and Longevity and Low Maintenance of Airless tyres Deliver Environmental Benefits.

- An airless tyre can exhibit a much better level of durability compared to that of a conventional tyre and can greatly decrease the risk of being punctured, or that of a pneumatic tyre.
- As they have no air, their air pressure needs not to be checked often, and the risk of a blowout is incredibly low.
- Airless tyres run flatly and reduce the risk of blowouts for drivers and passengers.
- Airless tyres promote environmental sustainability by diminishing the number of tyres that end up in landfills due to punctures and blowouts, boosting the airless tyres market growth.

### Higher Upfront Cost: Alternatives, Limited Availability, and Adoption Poses Performance Limitations of Airless Tyres

- Airless tyres in general have a higher purchase price when compared with traditional tyres; this has the potential to act as a barrier to consumers, especially those sensitive to price, and smaller businesses.
- The market is at its very nascent phase when it comes to airless tyres; thus, the lack of them in the market translates to reduced power of adoption. The technology is, however, unfamiliar to most customers or businesses, and this may slow the growth rates of such a market.
- Airless tyres are heavier than traditional ones and tend to be less comfortable. It may give off more noticeable noise while being used, which can directly alter the handling and even fuel efficiency in the car.
- Manufacturing complex, advanced processes, and materials used in the production of airless tyres, might be difficult and may require an investment of millions.
- According to airless tyres industry analysis, conventional pneumatic tyres are continually expanding with advancements in their materials and technology. Advancements can tackle the growth of airless tyres.

### Increasing Demand For Low-Maintenance Solutions, Advancements In Materials And Technology, And Government Incentives Provide An Opportunity For Market Growth.

- Rising demand from the masses for reliable transportation with low maintenance provides a vast market for airless tyres.
- Material science development and development in the technology of tyres improve airless tyre performance and drive its cost down to be significant compared with other conventional tyres.
- Public adoption will push the market share of airless tyres, which will be driven by government regulation along with incentives.
- Some of the competitive advantages that companies stand to gain in airless tyres include improvement in performance, durability, cost-effectiveness, and innovativeness.
- With economies of scale and cost management efficiently, it would be possible to cut down on prices and make airless tyres

more affordable, bolstering the growth of the airless tyres market.

- If a strong market has to be built for airless tyres, then they have to offer durability, safety, and low maintenance at all times.

**Better Market Penetration And Customer Satisfaction Are Results Of Close Associations With Retailers, Wholesalers, And Direct Customers.**

- Strong after-sales services with warranties, maintenance, and customer care will increase satisfaction and loyalty.

- Different products with varied specifications regarding various vehicle applications will attract a wide customer base.

- Provision of statutory and regulatory adherence through certifications will save them from the entanglement of legal redresses and act as a source of credibility.

- A company will be better off in managing economic fluctuations through value for money.

### **Key Demand Indicators of the Global Airless Tyres Market**

- The demand for airless tyres comes from industrial sectors that need low-maintenance, high-durability equipment, such as construction, agriculture, and military.

- Fast growth in awareness and an emphasis on issues of sustainability and eco-friendliness raise the demand for airless tyres.

- Their technological improvement, for instance, in the choice of material and the product design to boost their competence and reliability in terms of performance, would attract more customers.

- Supportive government regulations and policies that promote the use of sustainable and low-maintenance transportation options can drive this demand.

- Demand is also driven by the significant cost savings from reduced maintenance and increased vehicle uptime, accelerating the airless tyres market revenue in the long run.

- Their desirability includes applications related to evergreen niche areas like off-road vehicles, biking, and ATVs.

- In addition, infrastructure development works are going on across many developing and underdeveloped countries; hence, demand for strong and reliable transport systems is on the high.

### **Airless Tyres Market Regional Analysis**

#### **North America to Provide Enhanced Growth Opportunities to the Airless Tyres Industry**

The airless tyres industry in North America is expected to drive the market demand in the forecast period owing to the roll-out of these tyres in military operations and operational vehicles across the region. Moreover, industrial players in the region remain focused on providing the product for military and defence purposes. For example, Resilient Technologies and Michelin provide these wheels to the United States military so that they can travel in uneven and difficult terrain.

### **Competitive Landscape**

The key players in the airless tyres market emphasise developing durable, maintenance-free, sustainable solutions. Their focus is on improving performance and safety, but also reducing the constraints linked with traditional tyres.

#### **The Goodyear Tire & Rubber Company**

The Goodyear Tire & Rubber Company, founded in 1898 and based in Akron, Ohio, is developing airless tyre technology under its "Urban Terrain" concept. The tyres would be both durable and high-performance without having to worry about air pressure or any other type of maintenance.

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## Bridgestone Corporation

Founded in 1931 and based in Tokyo, Japan, Bridgestone Corporation has airless tyre solutions in the "Airless Tire" and "Non-Pneumatic Tire" concepts. Their designs improve safety and reliability without the risk of punctures and reduce maintenance.

## Michelin North America, Inc.

Based in Greenville, South Carolina, Michelin North America, Inc. was founded in 1968 and today is known for its "Michelin Uptis." The Unique Puncture-proof Tire System is an airless tyre technology developed to bring a durable improvement in performance without punctures or loss of pressure for many vehicle categories.

Other key players in the airless tyres market report include Toyo Tire Corporation and Continental AG, among others.

### Key Price Indicators of the Global Airless Tyres Market

- A fluctuation in the raw material price will have a direct impact on the airless tyres market.
- Change in global demand or a significant disparity in the price of the final product or geopolitical factors.
- The cost of the manufacturing process, which may include labour, energy, machinery, and investment in technology, naturally affects the price of airless tyres.
- An increase in demand with low supply can lead to a rise in prices, while oversupply can drive prices to low levels. Seasonal oscillations in demand and market saturation can also determine the pricing.
- There can be possible changes in the involved costs by any improvement in the tyre technology, such as innovation in materials or manufacturing processes.
- Raw material supply to manufacturing locations becomes an important cost component.
- The cost of distributing finished goods to markets also has a bearing on the overall pricing structure, affecting the airless tyres industry revenue.
- Successful marketing strategies can improve brand visibility and support premium pricing. At the same time, an effective distribution network can allow the brand to maintain competitive prices.
- Pricing is based on the perceived value of airless tyres and the price that consumers are willing to pay for the benefits of durability, low maintenance, and safety.

### More Insights On

#### Tyre Market

#### India Tyre Market

#### Green Tyre Market

#### Farm Tyre Market

#### Australia Tyre Market

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