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Global Automotive Automatic Tire Inflation System Market to reach USD 204.71 million by 2032.

https://marketpublishers.com/r/GF0618FBF549EN.html
Date: February 2025
Pages: 285
Price: US$ 3,218.00 (Single User License)
ID: GF0618FBF549EN

Abstracts

The Global Automotive Automatic Tire Inflation System Market, valued at approximately USD 82 million in 2023, is poised to expand at a robust compound annual growth rate (CAGR) of 10.7% throughout the forecast period from 2024 to 2032. Automatic tire inflation systems (ATIS) have transformed the landscape of commercial and passenger vehicles by optimizing tire pressure in real time. As fuel efficiency, safety, and tire longevity become paramount for fleet operators and vehicle owners alike, ATIS technology is witnessing increased adoption across diverse transportation sectors. This intelligent tire inflation system minimizes wear and tear, enhances road safety, and significantly improves vehicle handling—positioning itself as an essential component in modern automotive systems. The surging demand for sustainable mobility solutions, coupled with stringent government regulations mandating tire pressure monitoring, is catalyzing the growth trajectory of this market.

The increasing penetration of ATIS in commercial vehicles—particularly in heavy-duty trucks, buses, and off-highway vehicles—has emerged as a key growth driver. The industry is experiencing a significant shift towards smart vehicle technologies, and fleet operators are recognizing the benefits of automated tire pressure management in reducing downtime, operational costs, and environmental impact. Moreover, the advent of electric commercial vehicles (ECVs) is further propelling the need for automatic tire inflation systems, as efficient tire pressure regulation directly contributes to optimized battery performance and extended vehicle range. OEMs and aftermarket players are heavily investing in R&D to enhance the reliability and integration of ATIS with telematics and IoT-enabled vehicle monitoring systems, paving the way for next-generation fleet management solutions.

Despite the optimistic market outlook, certain challenges hinder widespread adoption.

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The high initial investment and complex integration process pose significant barriers, especially for small-scale fleet operators. Moreover, the technical limitations of ATIS in extreme weather conditions and rugged terrains can limit its efficiency in certain regions. However, ongoing technological advancements, such as adaptive inflation algorithms and sensor-driven automation, are expected to mitigate these issues, ensuring seamless tire pressure management across varying terrains and climates. Additionally, government incentives promoting fuel-efficient transportation solutions are anticipated to create lucrative opportunities for manufacturers and service providers in the ATIS space.

The regional landscape of the Automotive Automatic Tire Inflation System Market exhibits promising growth patterns across North America, Europe, and Asia Pacific. North America dominates the market, driven by strong regulatory policies emphasizing vehicle safety and energy efficiency. The United States, in particular, leads the adoption of ATIS, owing to the presence of large-scale fleet operators and stringent mandates on commercial vehicle safety. In Europe, rising environmental concerns and sustainable transport initiatives are fueling market expansion, with countries like Germany and France focusing on tire efficiency regulations. Meanwhile, Asia Pacific is expected to witness the highest growth rate, attributed to increasing vehicle production, infrastructure development, and a booming logistics sector in countries such as China and India. As e-commerce and urban mobility trends accelerate, ATIS adoption is expected to surge in last-mile delivery vehicles, further propelling market growth.

Major market players included in this report are:

3D Systems Corporation

Desktop Metal, Inc.

Organovo Holdings, Inc.

Cyfuse Biomedical K.K

Medprin Biotech GmbH

Advanced Solutions, Inc.

CollPlant Biotechnologies Ltd

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REGEMAT 3D S.L

The Bio Convergence Company

Shining 3D

Dana Incorporated

Michelin

SAF-Holland SE

Goodyear Tire & Rubber Company

Hendrickson USA, LLC

The detailed segments and sub-segments of the market are explained below:

By Type:

Central

Continuous

By On-highway Vehicle:

Light-Duty Vehicles (LDV)

Heavy-Duty Vehicles (HDV)

By Off-highway Vehicle:

Agriculture

Construction

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By Electric Vehicles:

- Truck
- Bus

By Sales Channel:

- OEM
- Aftermarket

By Component:

- (Specify components as per market classification)

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy

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- Rest of Europe (RoE)

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific (RoAPAC)

Latin America

- Brazil
- Mexico
- Rest of Latin America

Middle East & Africa

- Saudi Arabia
- South Africa
- Rest of Middle East & Africa (RoMEA)

Years considered for the study are as follows:

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Historical Year: 2022, 2023

Base Year: 2023

Forecast Period: 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand-side and supply-side analysis of the market.

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