

Aircraft Tires Market Outlook 2025-2034: Market Share, and Growth Analysis By Product (Radial, Bias), By Platform (Fixed Wing, Rotary Wing), By Application, By End-user

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Abstracts

The Aircraft Tires Market is valued at USD 2.4 billion in 2025 and is projected to grow at a CAGR of 4.7% to reach USD 3.6 billion by 2034. The aircraft tires market is a specialized sector within the aerospace industry, focusing on the design, development, and manufacturing of tires used on aircraft landing gear. This market encompasses a range of tires, including radial tires, bias-ply tires, and tubeless tires, each tailored to specific aircraft applications and operating conditions. The demand for high-performance aircraft tires is driven by the need to ensure the safety and reliability of aircraft landings and takeoffs. The market is characterized by stringent regulatory requirements, advanced rubber compounds, and precision manufacturing. The focus is on delivering durable, reliable, and high-performance tires that meet the demanding requirements of aircraft manufacturers and operators. The integration of advanced materials, digital simulation tools, and automated manufacturing processes is transforming the aircraft tires market.

The aircraft tires market witnessed a significant push towards advanced rubber compounds and digital simulation tools. There was a noticeable increase in the adoption of synthetic rubber compounds and reinforced fibers, improving the wear resistance and durability of aircraft tires. Manufacturers focused on developing digital simulation tools, such as finite element analysis (FEA) and computational fluid dynamics (CFD), to optimize tire design and performance. The integration of automated manufacturing processes, such as robotic tire building and precision curing, improved the consistency and quality of tire production. Furthermore, there was a growing emphasis on developing smart tires with integrated sensors, enabling real-time monitoring of tire

pressure and temperature. The development of advanced tread designs, improving traction and reducing wear, also saw increased investment. The use of advanced testing and validation techniques, such as fatigue testing and burst testing, improved the reliability and safety of tire applications.

The aircraft tires market is expected to experience continued growth and innovation, driven by the increasing demand for high-performance and reliable tire solutions. We anticipate further advancements in nanomaterial-based rubber compounds, which offer superior wear resistance, temperature stability, and traction. The integration of AI-powered tire analytics will enable real-time performance optimization and predictive maintenance. There will be a greater focus on developing tires compatible with future aircraft designs, including electric and autonomous aircraft. The adoption of advanced sensor networks and data analytics will enable real-time monitoring and optimization of tire systems. Furthermore, the market will see increased collaboration between tire manufacturers, aircraft manufacturers, and maintenance providers to develop integrated and optimized tire solutions. The integration of circular economy principles, focusing on tire recycling and waste reduction, will also become more prevalent, aligning with the industry's sustainability goals.

Key Insights Aircraft Tires Market

Advanced Rubber Compounds: Improved wear resistance and durability through synthetic rubber and reinforced fibers.

Digital Simulation Tools: Optimization of tire design and performance through FEA and CFD.

Automated Manufacturing: Improved consistency and quality of tire production through robotic assembly and precision curing.

Smart Tires: Real-time monitoring of tire pressure and temperature through integrated sensors.

Nanomaterial-Based Rubber: Superior wear resistance, temperature stability, and traction.

Stringent Safety Regulations: The need to ensure the reliability and safety of aircraft landings and takeoffs.

Operational Efficiency: Reducing maintenance costs and downtime through durable and reliable tires.

Technological Advancements: Innovations in rubber compounds, simulation tools, and manufacturing processes.

Increasing Aircraft Complexity: The need for high-performance tires in modern aircraft systems.

Managing Tire Wear and Heat Dissipation: Ensuring consistent tire performance under high loads and extreme operating conditions.

Aircraft Tires Market Segmentation

By Product

Radial

Bias

By Platform

Fixed Wing

Rotary Wing

By Application

Wide Body Aircraft

Very Large Aircraft

Regional Transport Aircraft

Narrow Body Aircraft

By End-user

OEM

Retread Tires

Replacement Tires

Key Companies Analysed

Eaton Corporation plc

Parker Hannifin Corporation

Woodward Inc.

Honeywell International Inc.

Crissair Inc.

Triumph Group Inc.

Moog Inc.

Arkwin Industries Inc.

Beaver Aerospace & Defense Inc.

Liebherr Group

GKN Aerospace

Raytheon Technologies Corporation

Safran S.A.

Meggitt PLC

Crane Co.

Zodiac Aerospace

AeroControlex Group

Pall Corporation

Donaldson Inc.

CLARCOR Inc.

Freudenberg & Co. KG

UTC Aerospace Systems

ITT Aerospace Controls

Circor Aerospace & Defense

Aeromax Industries Inc.

Aerofit Inc.

Collins Aerospace

Aeromaoz Ltd.

Aircraft Tires Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting

scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Aircraft Tires Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Aircraft Tires market data and outlook to 2034

United States

Canada

Mexico

Europe — Aircraft Tires market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Aircraft Tires market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Aircraft Tires market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Aircraft Tires market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Aircraft Tires value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Aircraft Tires industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Aircraft Tires Market Report

Global Aircraft Tires market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Aircraft Tires trade, costs, and supply chains

Aircraft Tires market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Aircraft Tires market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Aircraft Tires market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Aircraft Tires supply chain analysis

Aircraft Tires trade analysis, Aircraft Tires market price analysis, and Aircraft Tires supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Aircraft Tires market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the

impact of recent market developments.

** The updated report will be delivered within 3 working days*

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