

# **Aerospace Landing Gear Market Forecasts to 2032 – Global Analysis By Type (Main Landing Gear and Nose Landing Gear), Gear Arrangement, Aircraft Type, Component, Material, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Aerospace Landing Gear Market is accounted for \$12.4 billion in 2025 and is expected to reach \$24.9 billion by 2032 growing at a CAGR of 10.5% during the forecast period. Aerospace landing gear is a critical subsystem of aircraft and spacecraft, designed to support the vehicle during ground operations, takeoff, and landing. It typically comprises wheels, struts, shock absorbers, brakes, and retraction mechanisms, engineered to withstand high loads and dynamic stresses. Landing gear systems vary by aircraft type—fixed for light planes, retractable for high-speed jets—to optimize aerodynamics and fuel efficiency. Advanced materials like titanium alloys and carbon composites enhance strength-to-weight ratios, while modern systems integrate sensors and hydraulics for precise control. In aerospace design, landing gear plays a pivotal role in safety, performance, and operational reliability across civil, military, and space domains.

### **Market Dynamics:**

Driver:

Increasing Global Air Travel and Aircraft Fleet Expansion

The aerospace landing gear market is significantly driven by the surge in global air travel and the rapid expansion of commercial and defense aircraft fleets. Rising passenger volumes, emerging low-cost carriers, and increased defense procurement are fueling demand for new aircraft, thereby boosting landing gear installations. Fleet

modernization programs and regional connectivity initiatives further amplify growth. As airlines prioritize fuel efficiency and operational reliability, advanced landing gear systems are becoming essential components in next-generation aircraft platforms worldwide.

Restraint:

#### High Development and Manufacturing Costs

High development and manufacturing costs significantly hinder growth in the aerospace landing gear market. Precision engineering, advanced materials, and stringent safety standards drive up expenses, limiting entry for smaller players and slowing innovation. Extended certification timelines and complex integration requirements inflate R&D budgets, reducing profitability. These financial barriers constrain OEMs' ability to scale production, delay fleet upgrades, and challenge competitiveness—especially in cost-sensitive commercial and emerging regional aviation segments.

Opportunity:

#### Technological Advancements

Technological advancements present transformative opportunities in the market. Innovations in lightweight composites and smart sensor integration are enhancing system performance, reducing weight, and improving fuel efficiency. Predictive maintenance enabled by real-time data analytics is optimizing lifecycle costs and operational uptime. Autonomous taxiing systems and electric actuation are reshaping ground maneuverability. These breakthroughs are not only elevating safety and reliability but also aligning with sustainability goals, making advanced landing gear systems pivotal in next-gen aircraft development.

Threat:

#### Supply Chain Vulnerability

Supply chain vulnerabilities severely disrupt the aerospace landing gear market by delaying component deliveries, inflating costs, and constraining production timelines. Limited access to specialized alloys and precision parts hampers OEMs and Tier 1 suppliers, while geopolitical tensions and regulatory bottlenecks exacerbate sourcing risks. These disruptions undermine reliability, stall innovation, and erode customer

confidence—especially in defense and commercial aviation segments where performance and certification timelines are mission-critical.

### Covid-19 Impact

The COVID-19 pandemic had a profound impact on the market, triggering a sharp decline in commercial air travel and aircraft deliveries. OEMs faced production halts, while MRO activities slowed due to grounded fleets. Supply chain disruptions and liquidity challenges affected component availability and investment in R&D. However, recovery is underway, driven by pent-up travel demand, fleet modernization, and renewed defense spending. The crisis also accelerated digital transformation and sustainability initiatives, reshaping landing gear design and maintenance strategies.

The commercial aircraft segment is expected to be the largest during the forecast period

The commercial aircraft segment is expected to account for the largest market share during the forecast period, due to rising global passenger traffic, fleet expansion by major airlines and increased demand for fuel-efficient aircraft are key drivers. Narrow-body and wide-body aircraft programs are witnessing strong order volumes, especially in emerging economies. Landing gear systems for commercial jets emphasize weight reduction, durability, and advanced braking technologies to enhance safety and performance. OEMs are investing in modular designs and smart systems to meet evolving operational needs.

The braking system segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the braking system segment is predicted to witness the highest growth rate, due to advancements in electric braking, anti-skid technologies, and real-time monitoring. As aircraft performance demands increase, braking systems are evolving to deliver enhanced responsiveness, reduced wear, and improved safety. Integration of electronic control units and regenerative braking capabilities is gaining traction, especially in hybrid-electric aircraft platforms. The shift toward predictive maintenance and digital diagnostics is further propelling innovation, making braking systems a focal point of aerospace landing gear evolution.

### **Region with largest share:**

During the forecast period, the Asia Pacific region is expected to hold the largest market

share due to rapid urbanization, rising disposable incomes, and expanding air connectivity. Countries like China, India, and Southeast Asian nations are witnessing robust growth in commercial aviation and defense procurement. Indigenous aircraft programs, infrastructure upgrades, and government support for aerospace manufacturing are catalyzing regional demand. The presence of key OEMs and MRO hubs further strengthens Asia Pacific's position as a dominant force in the global landing gear market.

### **Region with highest CAGR:**

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to strong defense spending, technological leadership, and fleet modernization initiatives. The region hosts major OEMs and Tier-1 suppliers, fostering innovation in materials, automation, and smart systems. Rising demand for next-gen military aircraft and business jets, coupled with increased R&D investments, is accelerating market growth. Regulatory emphasis on safety and sustainability is prompting adoption of advanced landing gear technologies, positioning North America as a key innovation hub.

### **Key players in the market**

Some of the key players profiled in the Aerospace Landing Gear Market include Safran Landing Systems, Collins Aerospace, Liebherr-Aerospace, H?roux-Devtek, GKN Aerospace, Triumph Group, Parker Hannifin (Parker Aerospace), AAR Corporation, CIRCOR International, Magellan Aerospace, Sumitomo Precision Products (SPP), Moog Inc., Eaton Corporation, Mecaer Aviation Group (MAG) and Crane Aerospace & Electronics.

### **Key Developments:**

In June 2025, Safran Landing Systems renewed a long-term agreement with Revima to supply spare parts and technical support for landing gear maintenance across Revima's facilities in France and Thailand. This strengthens their hold on legacy Airbus platforms (A320ceo, A330).

In February 2025, Liebherr-Aerospace and TEAL (Titan Engineering and Automation Limited) formalized a strategic partnership aimed at enhancing aviation technology and precision manufacturing. This collaboration focuses on supplying components for critical aircraft parts.

### Types Covered:

Main Landing Gear

Nose Landing Gear

### Gear Arrangements Covered:

Tricycle Landing Gear

Tandem Landing Gear

Tail Wheel Landing Gear

### Aircraft Types Covered:

Commercial Aircraft

Military Aircraft

Business Jets

Regional Transport Aircraft

Unmanned Aerial Vehicles (UAVs)

### Components Covered:

Actuators

Wheels & Tires

Braking System

Steering System

Shock Absorbers

Other Components

Materials Covered:

Alloys

Composites

Other Materials

End Users Covered:

OEM (Original Equipment Manufacturer)

Aftermarket

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

**What our report offers:**

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

**Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free customization options:

**Company Profiling**

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

**Regional Segmentation**

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

**Competitive Benchmarking**

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances



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