

Aircraft Landing Gear & Braking Systems Market Forecasts to 2034 - Global Analysis By Component (Actuators, Shock Absorbers (Struts), Wheels & Tires, Brake Discs & Pads and Control Systems), Aircraft Type, Landing Gear Type, Landing Gear Configuration, Braking System Type, Brake Material, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Aircraft Landing Gear & Braking Systems Market is accounted for \$16.5 billion in 2026 and is expected to reach \$35.9 billion by 2034 growing at a CAGR of 10.2% during the forecast period. Aircraft landing gear and braking systems play a critical role in ensuring safe aircraft movement throughout takeoff, landing, taxiing, and ground handling activities. Landing gear withstands landing loads, provides structural support, and facilitates smooth aircraft movement across runways and taxiways. Braking systems generate the necessary stopping force following touchdown and during ground operations, contributing significantly to operational safety and control. Technological advancements are introducing lightweight components, sophisticated braking mechanisms, anti-skid technologies, electronic control systems, and predictive monitoring features. Increasing aircraft deliveries, expanding aviation fleets, growing passenger traffic, and greater maintenance needs are supporting demand for dependable landing gear and braking systems across commercial, defense, business, and general aviation sectors.

According to the International Air Transport Association (IATA), global passenger demand increased 5.3% in 2025 compared with 2024, while the passenger load factor reached a record 83.6%, indicating continued strength in global air transportation activity.

Market Dynamics:

Driver:

Growth in aircraft production and fleet expansion

The expansion of aircraft fleets and rising aircraft manufacturing activity are important factors supporting growth in the Aircraft Landing Gear & Braking Systems Market. Airlines are adding new aircraft to respond to increasing passenger volumes, modernize aging fleets, reduce operating costs, and strengthen transportation capacity. At the same time, manufacturers are increasing production to fulfill substantial orders across commercial, regional, business, and defense aviation. Expanding fleets also increase requirements for replacement components, maintenance, inspections, and technological upgrades. Therefore, higher aircraft deliveries and broader aviation fleet expansion continue creating opportunities for advanced, reliable, lightweight, and efficient landing gear and braking solutions.

Restraint:

High manufacturing and maintenance costs

Elevated production and servicing expenses represent a significant constraint for the Aircraft Landing Gear & Braking Systems Market. Landing gear and braking equipment must comply with demanding aviation safety standards, requiring specialized materials, precise engineering, sophisticated production methods, and rigorous certification testing. Complex components, including braking assemblies, wheels, actuators, landing gear structures, and anti-skid mechanisms, contribute to higher manufacturing costs. Additionally, regular inspections, repairs, overhauls, and component replacements require qualified personnel, dedicated equipment, and adherence to strict regulatory procedures. Smaller airlines and aviation operators with limited financial resources may therefore postpone modernization or technological upgrades.

Opportunity:

Adoption of lightweight and advanced materials

Growing interest in lightweight and high-performance materials creates attractive opportunities within the Aircraft Landing Gear & Braking Systems Market. Aircraft producers increasingly focus on reducing component weight without compromising safety, strength, reliability, or service life. Materials such as titanium, high-strength alloys, composites, and other advanced alternatives can provide improved strength while reducing system weight. Lighter landing gear and braking components can help aircraft achieve greater fuel efficiency, reduced operating expenses, and improved

overall performance. Companies capable of designing lightweight wheels, brake assemblies, landing structures, and related components can benefit from emerging aircraft development programs.

Threat:

Supply chain disruptions and raw material availability

Unstable supply chains and uncertainty surrounding specialized raw materials can create considerable challenges for the Aircraft Landing Gear & Braking Systems Market. Production depends on materials and components such as titanium, advanced alloys, composites, electronics, and precision-manufactured parts. Geopolitical conflicts, logistics interruptions, supplier capacity limitations, and industrial disruptions can reduce material availability and raise manufacturing expenses. Reliance on a limited number of qualified suppliers can additionally produce bottlenecks and extend component delivery timelines. Continued supply chain instability could consequently affect aircraft manufacturing schedules, maintenance programs, component availability, and timely delivery of landing gear and braking equipment.

Covid-19 Impact:

The COVID-19 crisis had a considerable negative influence on the Aircraft Landing Gear & Braking Systems Market, primarily through reduced aircraft production, delayed deliveries, declining airline activity, and weaker maintenance demand. Restrictions on international travel and falling passenger traffic encouraged airlines to postpone aircraft acquisitions and delivery schedules, reducing requirements for newly installed landing gear and braking equipment. Airbus delivered 566 commercial aircraft during 2020, representing a 34% decline from 2019. As aviation traffic and aircraft manufacturing recovered, demand for landing gear, braking systems, replacement components, and related services progressively strengthened.

The wheels & tires segment is expected to be the largest during the forecast period

The wheels & tires segment is expected to account for the largest market share during the forecast period. These components are fundamental to aircraft movement during landing, takeoff, taxiing, and ground handling activities. Aircraft wheels and tires endure considerable loads, heat, friction, and repeated operational cycles, resulting in continuous requirements for inspection, maintenance, refurbishment, and replacement. Tire wear is especially significant, while wheels must withstand demanding forces generated during touchdown and braking. Additionally, widespread utilization across commercial, defense, business, and general aviation aircraft strengthens the importance of wheels and tires within landing gear and braking system applications.

The aftermarket segment is expected to have the highest CAGR during the

forecast period

Over the forecast period, the aftermarket segment is predicted to witness the highest growth rate. Its expansion is supported by the growing number of aircraft in service and the recurring requirement for maintenance, repairs, overhauls, refurbishment, and replacement components. Landing gear and braking equipment undergo substantial operational stresses, creating continuing requirements for inspection and servicing throughout an aircraft's lifecycle. Fleet expansion and aging aircraft additionally increase the frequency of MRO activities. As airlines continue operating existing aircraft while managing fleet modernization, demand for aftermarket landing gear and braking services is expected to strengthen, creating attractive growth opportunities for suppliers and specialized aviation maintenance providers.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share because of its strong aerospace ecosystem and substantial aircraft production base. The region has numerous aircraft manufacturers, specialized component producers, airlines, defense agencies, and aviation maintenance organizations. Its large commercial and military aircraft fleet creates consistent demand for landing gear and braking system maintenance, refurbishment, replacement, and servicing. Continued defense spending also encourages adoption of sophisticated landing and braking technologies. Furthermore, well-established aerospace supply networks, advanced production facilities, and comprehensive MRO infrastructure provide strong support for market development.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by expanding aviation fleets, increasing air travel, and rising aircraft purchases. Airlines across China, India, Japan, and Southeast Asia are adding new aircraft and upgrading existing fleets to accommodate growing passenger demand. Investments in aviation infrastructure and regional aerospace manufacturing are further strengthening market opportunities. Defense modernization programs and increasing military aircraft requirements are also supporting demand for sophisticated landing gear and braking solutions. Furthermore, the development of regional MRO capabilities is encouraging aftermarket opportunities for component servicing, refurbishment, and replacement.

Key players in the market

Some of the key players in Aircraft Landing Gear & Braking Systems Market include Safran Landing Systems, Collins Aerospace, Honeywell Aerospace, Meggitt PLC, Liebherr Aerospace, GKN Aerospace, Crane Aerospace & Electronics, Grove Aircraft,

Eaton Corporation, Moog Inc., Sumitomo Precision Products Co., Ltd., Heroux-Devtek Inc., Kaman Corporation, Triumph Group, Inc., GA Telesis, LLC and McFarlane Aviation, LLC.

Key Developments:

In July 2026, Honeywell Aerospace and Enigma Aerospace, Inc. announced a Memorandum of Understanding (MOU) to explore integrating advanced mission systems onto Enigma's Phoenix Series Unmanned Aircraft System (UAS) — a runway-independent, autonomous logistics aircraft designed to operate in GPS-denied, communications-degraded and otherwise contested environments.

In April 2026, Collins Aerospace has been awarded multiple contracts from Fort Worth-based Bell Textron to deliver five critical systems for the U.S. Army's MV-75 Future Long Range Assault Aircraft (FLRAA). Bell announced an April construction start for its new \$632 million factory in North Fort Worth, which will build parts for the FLRAA—a tilt-rotor aircraft that replaces the famed Black Hawk helicopter, flying twice as fast and twice as far while providing superior air assault and MEDEVAC capability.

Components Covered:

Actuators

Shock Absorbers (Struts)

Wheels & Tires

Brake Discs & Pads

Control Systems

Aircraft Types Covered:

Commercial Aircraft

Military Aircraft

Business Jets

Regional Aircraft

Helicopters

Landing Gear Types Covered:

Nose Landing Gear

Main Landing Gear

Landing Gear Configurations Covered:

Tricycle Landing Gear

Tailwheel Landing Gear

Tandem Landing Gear

Multi-Bogey Landing Gear

Braking System Types Covered:

Hydraulic Braking Systems

Electric Braking Systems

Pneumatic Braking Systems

Brake Materials Covered:

Carbon Brakes

Steel Brakes

End Users Covered:

OEM (Original Equipment Manufacturer)

Aftermarket

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of 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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

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)

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