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Aircraft Landing Gear Market Forecasts to 2034 – Global Analysis By Gear Type (Main Landing Gear and Nose Landing Gear), Aircraft Type, Component, Arrangement Type, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Aircraft Landing Gear Market is accounted for $12.1 billion in 2026 and is expected to reach $25.2 billion by 2034, growing at a CAGR of 8.5% during the forecast period. Aircraft landing gear is the undercarriage system that supports an aircraft during takeoff, landing, and while it is on the ground. It absorbs the impact of landing, provides stability during taxiing, and enables maneuverability on runways. Landing gear can be fixed or retractable and typically includes wheels, shock absorbers, brakes, and struts. Modern designs may also incorporate advanced materials and hydraulic or electric systems to enhance performance, reduce weight, and improve safety and reliability during ground operations.

Market Dynamics:

Driver:

Increasing global air passenger traffic and fleet expansion

The surge in aircraft production directly fuels the demand for advanced, lightweight landing gear systems. Original Equipment Manufacturers (OEMs) are ramping up production lines to fulfill orders for fuel-efficient narrow-body and wide-body jets. Simultaneously, the need for replacement and maintenance of existing fleets is driving the aftermarket segment. As low-cost carriers proliferate and middle-class incomes rise, the volume of air travel is projected to increase, necessitating more aircraft and,

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consequently, more landing gear units over the forecast period.

Restraint:

High development and manufacturing costs

The landing gear is one of the most expensive and complex subsystems to design and manufacture, involving rigorous testing, certification, and the use of high-strength, specialized materials like titanium and high-grade steel. The development cycle is lengthy, often spanning several years, and requires significant capital investment in R&D and precision manufacturing facilities. Furthermore, the integration of advanced sensors and electronic control systems adds another layer of complexity and expense, making it challenging for manufacturers to balance performance enhancements with cost containment for cost-sensitive airline customers.

Opportunity:

Growth in the military modernization programs

Numerous countries are investing heavily in modernizing their military aviation capabilities, including the procurement of advanced fighter jets, transport aircraft, and unmanned aerial vehicles (UAVs). These next-generation military platforms require highly durable, high-performance landing gear capable of operating from semi-prepared runways and withstanding extreme combat conditions. Additionally, the need for maintaining and upgrading existing military fleets ensures a steady stream of aftermarket revenue for spare parts, overhauls, and repairs, offering a stable and lucrative market segment distinct from the cyclical commercial aviation sector.

Threat:

Supply chain volatility and material shortages

The industry relies on a steady supply of high-grade steel, titanium, and aluminum alloys, as well as complex electronic components for braking and control systems. Geopolitical tensions, trade disputes, or logistical bottlenecks can lead to significant delays in production and delivery schedules. Fluctuations in the price of these raw materials also impact manufacturing costs and profit margins. Without robust, diversified sourcing strategies and buffer inventories, manufacturers face the risk of production halts and an inability to meet the delivery timelines of aircraft OEMs.

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Covid-19 Impact:

The COVID-19 pandemic severely disrupted the aviation industry, causing a sharp decline in air travel and leading to deferred aircraft deliveries and production cuts. This initially caused a slump in demand for new landing gear from OEMs. However, the aftermarket segment for maintenance and repair also saw delays as fleets were grounded. The crisis prompted manufacturers to reassess supply chain resilience and accelerate digitalization efforts in design and maintenance. As the industry recovers, the focus has shifted to more efficient, sustainable manufacturing processes and addressing the backlog of aircraft orders, with landing gear producers adapting to new safety protocols and fluctuating demand patterns.

The main landing gear segment is expected to be the largest during the forecast period

The main landing gear segment is expected to account for the largest market share during the forecast period, due to its role as the primary support structure bearing the majority of the aircraft's weight. These assemblies are larger, more complex, and structurally more significant than nose gear, incorporating multiple wheels, heavy-duty shock absorbers, and powerful braking systems. They must withstand immense stress during landing and takeoff, driving the need for robust design and high-strength materials.

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, driven by the expanding global aircraft fleet and stringent aviation safety regulations. Landing gear systems are subject to extreme stress and require regular inspection, maintenance, overhaul, and part replacement after a certain number of landing cycles. As airlines focus on extending the service life of their existing aircraft to meet demand, the need for MRO services intensifies.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, supported by the presence of major aircraft OEMs like Boeing and a vast, established military aviation sector. The U.S. and Canada are at the forefront of developing next-generation aircraft, driving demand for advanced, lightweight landing

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gear systems. Significant defense budgets allocated for modernizing fighter jets and transport aircraft contribute substantially to market growth.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, fueled by the rapid expansion of its commercial aviation sector. Countries like China and India are witnessing explosive growth in air passenger traffic, leading to massive aircraft orders from both full-service and low-cost carriers. This surge in fleet size necessitates a corresponding increase in both new landing gear production and aftermarket support.

Key players in the market

Some of the key players in Aircraft Landing Gear Market include Safran S.A., Collins Aerospace, Liebherr Group, Meggitt PLC, Heroux-Devtek Inc., Moog Inc., Parker Hannifin Corporation, Triumph Group, Inc., Magellan Aerospace Corporation, UTC Aerospace Systems, CIRCOR International, Inc., AAR Corporation, Kawasaki Heavy Industries, Ltd., Hindustan Aeronautics Limited (HAL), and Sumitomo Precision Products Co., Ltd.

Key Developments:

In February 2026, Raytheon, an RTX business, entered into five landmark framework agreements with the U.S. Department of War to significantly increase production capacity and speed deliveries of Land Attack and Maritime Strike variants of Tomahawk, AMRAAM® missiles, Standard Missile-3® Block IB interceptors (SM-3 IB), Standard Missile-3® Block IIA interceptors (SM-3 IIA), and Standard Missile-6® (SM-6).

In February 2026, Kawasaki Railcar Manufacturing Co., Ltd. and SMRT Corporation Ltd. have signed a Memorandum of Understanding (MOU) to collaborate on resolving issues related to rolling stock technology and operation & maintenance. Kawasaki Railcar and SMRT will work in close collaboration to resolve complex issues associated with maintenance and operations. Both companies will further deepen the exchange of knowledge and experience in rolling stock technologies and operation & maintenance.

Gear Types Covered:

Main Landing Gear

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Nose Landing Gear

Aircraft Types Covered:

Fixed-Wing Aircraft

Rotary-Wing Aircraft

Components Covered:

Shock Absorbers (Struts)

Sensors & Control Electronics

Wheels & Brakes

Steering Systems

Retraction & Actuation Systems

Other Components

Arrangement Types Covered:

Tricycle

Tailwheel

Tandem

Applications Covered:

Commercial Aviation

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- Cargo Aircraft
- Military Aviation
- General Aviation

End Users Covered:

- Original Equipment Manufacturer (OEM)
- Aftermarket

Regions Covered:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - United Kingdom
  - Germany
  - France
  - Italy
  - Spain
  - Netherlands
  - Belgium

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- 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

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- 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

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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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Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) are also represented in the same manner as above.

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