

Commercial Aircraft Landing Gear Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Gear Position (Main Landing, Nose Landing), By Component (Landing Gear Steering System, Wheel & Brake System, Actuation System, Others), By Aircraft Type(Narrow-Body, Wide Body, Regional Jet, Others), By Arrangement (Tricycle, Tandem, Tailwheel), By Region & Competition, 2020-2030F

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Report description:

The Global Commercial Aircraft Landing Gear Market was valued at USD 2.84 Billion in 2024 and is expected to reach USD 5.63 Billion by 2030 with a CAGR of 6.68% during the forecast period. The global Commercial Aircraft Landing Gear market is experiencing significant growth owing to the growing demand for air travel, increasing fleet size, and the need for fleet modernization. Airlines and operators are focusing on enhancing aircraft performance, efficiency, and safety, which drives investments in advanced landing gear technologies. Innovations such as lightweight materials, improved braking systems, and enhanced shock-absorbing mechanisms are helping reduce maintenance costs and improve fuel efficiency. Also, the growing trend toward longer operational lifespans for commercial aircraft and the focus on sustainability push for more durable and efficient landing gear solutions, driving market growth across the aviation sector.

Market Drivers

Booming Aviation Industry

The booming aviation industry is a key driver for the global Commercial Aircraft Landing Gear market. As a part of this, according to the Government of India, as of September 2024, India is the third-largest domestic aviation market, and the aviation sector in India has grown significantly, with total air passengers handled at Indian airports increasing by 15% year on year to 37.6 crore in

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fiscal year 24. With the increasing demand for air travel, airlines are expanding and modernizing their fleets to accommodate a larger number of passengers. As air traffic continues to grow globally, the need for reliable, efficient, and advanced landing gear systems becomes more critical to ensuring safety, operational efficiency, and cost-effectiveness. New commercial aircraft models, including larger wide-body jets and fuel-efficient narrow-body aircraft, require advanced landing gear solutions capable of supporting heavier weights, higher speeds, and more frequent takeoffs and landings. The expansion of low-cost carriers and increased flights in emerging economies further contribute to the rising demand for aircraft and, by extension, landing gear systems.

Also, aircraft manufacturers are adopting innovative technologies such as lightweight materials, improved braking systems, and automated shock absorption to enhance performance and reduce maintenance costs. These innovations are driving the market for advanced landing gear solutions, as they offer improved durability, efficiency, and reduced operational downtime. The growth of the aviation industry, driven by factors like globalization, rising disposable incomes, and tourism, will continue to fuel demand for commercial aircraft landing gear systems, further propelling market expansion.

Rising Government Investment Across Aviation Sector

Rising government investment across the aviation sector is a significant driver for the global Commercial Aircraft Landing Gear market. As a part of this, as of March 2023, as air travel demand grows, India has announced massive airport investment plans. The government plans to invest over Rs. 980 billion (\$12 billion) by 2025 to improve regional connections. India, one of the world's fastest-growing aviation markets, wants to increase the number of airports from 148 to 220 by 2025. Governments worldwide are increasingly recognizing the strategic importance of the aviation industry and are allocating substantial resources to support its growth. This investment is aimed at improving airport infrastructure, enhancing flight safety, and modernizing fleets. As part of this effort, governments are funding the development and procurement of advanced aircraft, which directly impacts the demand for commercial aircraft landing gear systems.

Also, governments are focusing on the modernization of aging aircraft fleets, encouraging airlines to adopt more efficient, environmentally friendly, and technologically advanced aircraft. These new aircraft require state-of-the-art landing gear systems capable of handling increased payloads, faster speeds, and more demanding operational requirements. Government-led initiatives and subsidies also incentivize the adoption of innovative materials and technologies in landing gear, such as lightweight composites, advanced shock absorption systems, and more durable braking mechanisms. Government regulations and safety standards further drive the demand for high-performance landing gear systems, as they require that aircraft meet stringent safety criteria. As governments continue to prioritize aviation as a key driver of economic growth and connectivity, their investments will sustain the growth of the commercial aircraft landing gear market, supporting innovation and meeting the rising demand for air travel worldwide.

Rising Aircraft Production

Rising aircraft production is a key driver for the global Commercial Aircraft Landing Gear market. As a part of this, according to a recent study, as of May 2024, Airbus plans to produce 75 A320s and 14 A220s per month by 2026. In 2023, development started on the second A320 Final Assembly facilities in China and the US. Airbus works with suppliers and partners to address supply chain difficulties and maintain production growth. Airbus aims to boost A330 production to four per month in 2024 and A350 production to ten per month by 2026. As air travel demand continues to grow worldwide, airlines and aircraft manufacturers are ramping up production to meet the increasing need for passenger and cargo transportation. The surge in aircraft production directly correlates with the rising demand for landing gear systems, which are integral to the safe and efficient operation of commercial aircraft. New aircraft models, especially those focusing on fuel efficiency, larger capacity, and advanced technologies, require high-performance landing gear capable of supporting heavier loads, faster speeds, and more frequent takeoffs and landings. As more commercial aircraft are produced, landing gear systems must be developed and manufactured to meet the specific requirements of these aircraft. Also, the shift towards environmentally friendly aircraft designs is encouraging the use of lightweight materials and advanced systems in landing gear, further driving market growth. Rising aircraft production is also linked to the expanding aviation sectors in emerging economies, where airlines are investing in modern fleets to meet growing passenger demand. Aircraft manufacturers like Boeing, Airbus, and regional players are increasing production rates to address this global need, resulting in higher demand for reliable and durable landing gear systems. This upward trend in aircraft production will continue to be a significant driver for the commercial aircraft landing gear market.

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Key Market Challenges

Stringent Regulatory Compliance

Stringent regulatory compliance presents a significant challenge in the global Commercial Aircraft Landing Gear market. The aviation industry is subject to rigorous safety and environmental regulations set by organizations such as the Federal Aviation Administration (FAA) and the European Union Aviation Safety Agency (EASA). These regulations govern every aspect of aircraft design, manufacturing, and operation, including landing gear systems. To ensure compliance, landing gear manufacturers must adhere to strict standards related to durability, performance, and safety. For example, landing gear must be able to withstand heavy landing forces, resist corrosion from environmental elements, and function effectively under extreme conditions. The challenge lies in meeting these high standards while incorporating new technologies and materials that may not have been previously tested in real-world conditions. Also, frequent updates and changes in regulatory requirements necessitate continuous monitoring and adaptation of landing gear systems. This can lead to increased costs and extended development timelines for new models or upgrades. Manufacturers must invest in research and testing to ensure their products meet all regulatory criteria, which can significantly impact production schedules and market entry. As regulations continue to evolve, particularly in areas related to environmental sustainability and fuel efficiency, the challenge of maintaining compliance will remain a key factor influencing the commercial aircraft landing gear market. .

Supply Chain Disruptions

Supply chain disruptions are a significant challenge in the global Commercial Aircraft Landing Gear market. Landing gear systems are complex and require various specialized components, including high-strength metals, hydraulic systems, and advanced shock-absorbing materials, many of which are sourced globally. Any disruptions in the supply of these materials—due to geopolitical tensions, natural disasters, or economic fluctuations—can delay production timelines and increase costs for manufacturers. Also, the aviation industry operates on a just-in-time production model, meaning manufacturers rely on timely delivery of parts to meet tight production schedules. Delays in the delivery of critical landing gear components can halt or slow down aircraft production, leading to extended lead times and potential delays in the entry of new aircraft models into the market.

Also, disruptions in the supply of skilled labor, such as aerospace engineers and technicians, can further exacerbate the issue, as specialized knowledge is required to manufacture and maintain high-performance landing gear systems. These supply chain challenges not only impact manufacturers but also increase costs for airlines, as extended downtime or delayed deliveries may affect fleet availability and operational efficiency. As the global demand for air travel continues to rise, managing supply chain disruptions effectively is crucial to maintaining the stability of the commercial aircraft landing gear market.

Key Market Trends

Rising Travelling Activities Across the World

Rising traveling activities across the world is a significant trend driving the Global Commercial Aircraft Landing Gear Market. As a part of this, according to a recent study, as of May 2024, compared to 2023, the airline with the largest increased frequency in 2024 was HK Express, which raised its number of flights by 46%, from 23,940 to 35,015. As global air travel continues to increase due to factors such as rising disposable incomes, growing tourism, and expanding business travel, airlines are experiencing a surge in demand for new aircraft and fleet expansion. This directly impacts the need for advanced commercial aircraft landing gear systems.

To meet the growing air travel demand, airlines and aircraft manufacturers are investing in the production of more efficient, high-performance aircraft. Modern aircraft require landing gear systems capable of handling higher frequencies of takeoffs, landings, and weight-bearing pressures. With a focus on safety, reliability, and operational efficiency, the demand for durable, lightweight, and cost-effective landing gear solutions is rising. Also, the growing number of low-cost carriers, particularly in emerging markets, is contributing to this trend, as they expand their fleets to serve new routes and regions. As global travel activities continue to rise, there will be sustained demand for commercial aircraft landing gear systems that ensure the safety and operational efficiency of these modern aircraft. This trend further propels innovations and developments within the landing gear market, enhancing the performance of the aviation industry.

Increased Focus on Customization

Increased focus on customization is a prominent trend in the Global Commercial Aircraft Landing Gear Market. As the demand for more efficient and specialized aircraft grows, airlines and aircraft manufacturers are seeking landing gear systems tailored to the

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unique needs of specific aircraft models and operational requirements. This trend is driven by the growing variety of commercial aircraft in service, from narrow-body to wide-body jets, each requiring distinct landing gear designs to optimize performance, safety, and durability. Customization allows landing gear systems to be optimized for specific weight capacities, speeds, and environmental conditions, ensuring maximum efficiency during takeoff, landing, and taxiing. Aircraft manufacturers are working closely with landing gear suppliers to develop bespoke solutions that address factors such as improved shock absorption, enhanced braking, and reduced weight without compromising structural integrity. Also, airlines operating in different regions, such as those with high-temperature or high-humidity environments, are demanding landing gear systems that can withstand these unique conditions while maintaining peak performance. This focus on customization is driving innovations in materials, design, and technology, enabling more robust, adaptable landing gear solutions that meet the evolving needs of the aviation industry. This trend is expected to continue, ensuring that landing gear systems are increasingly tailored to specific aircraft and operational requirements.

Rising Use of Advanced Materials

Rising use of advanced materials is a key trend driving growth in the Global Commercial Aircraft Landing Gear Market. With the continuous push toward enhancing aircraft performance, reducing weight, and improving fuel efficiency, landing gear manufacturers are increasingly incorporating lightweight, durable materials into their designs. Advanced materials, such as titanium alloys, composites, and carbon fiber, are being utilized in landing gear systems to improve strength, reduce corrosion, and extend the lifespan of the components.

Titanium alloys, known for their high strength-to-weight ratio, are commonly used in critical components of landing gear to enhance durability while minimizing weight. Composites, which are lighter and more resistant to wear and corrosion, are also being integrated into landing gear systems to meet the demands of modern aircraft. The use of carbon-carbon brakes in landing gear systems is another significant innovation. These materials offer superior performance, high-temperature resistance, and reduced maintenance costs, making them ideal for commercial aircraft. These advanced materials contribute to the development of landing gear systems that are more efficient, cost-effective, and capable of handling the increased loads and frequencies of modern aircraft operations. As the aviation industry continues to prioritize fuel efficiency and sustainability, the use of advanced materials in landing gear systems will remain a crucial trend, driving innovation and enhancing aircraft performance worldwide.

Segmental Insights

Gear Position Insights

The Main Landing segment dominated the Global Commercial Aircraft Landing Gear Market, due to its critical role in supporting most of an aircraft's weight during takeoff, landing, and while stationary. Main landing gear typically consists of the primary wheels, struts, brakes, and shock absorbers, which are designed to withstand the high stresses and forces encountered during flight operations. As commercial aircraft sizes and payload capacities increase, the demand for robust and reliable main landing gear systems has grown significantly. These systems are engineered to handle higher loads, speeds, and operational frequencies, which are driving innovation in materials, design, and technology. The main landing gear's importance in ensuring aircraft safety and operational efficiency continues to make it the dominant segment in the market.

Regional Insights

North America was the dominating region in the Global Commercial Aircraft Landing Gear Market, driven by the presence of major aircraft manufacturers like Boeing and key suppliers of landing gear systems. The region has a well-established aviation infrastructure with a high number of commercial airlines and a growing demand for fleet modernization. North America also benefits from significant investments in research and development, leading to advancements in landing gear technologies such as lightweight materials and improved braking systems. Also, the region's strong regulatory frameworks ensure stringent safety and performance standards, further driving the adoption of advanced landing gear solutions. These factors collectively contribute to North America's market dominance.

Key Market Players

■ AAR CORP

■ Advantage Aviation Technologies

■ Eaton Corporation plc

■ Heroux-Devtek

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□□Liebherr-International Deutschland GmbH
□□Magnaghi Aeronautica S.P.A.
□□Sumitomo Precision Products Co., Ltd.
□□Safran S.A.

Report Scope:

In this report, the global Commercial Aircraft Landing Gear Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

□ Commercial Aircraft Landing Gear Market, By Gear Position:

- o Main Landing
- o Nose Landing

□ Commercial Aircraft Landing Gear Market, By Component:

- o Landing Gear Steering System
- o Wheel & Brake System
- o Actuation System
- o Others

□ Commercial Aircraft Landing Gear Market, By Aircraft Type:

- o Narrow-Body
- o Wide Body
- o Regional Jet
- o Others

□ Commercial Aircraft Landing Gear Market, By Arrangement:

- o Tricycle
- o Tandem
- o Tailwheel

Commercial Aircraft Landing Gear Market, By Region:

- o North America
 - United States
 - Canada
 - Mexico
- o Europe & CIS
 - France
 - Germany
 - Spain
 - Italy
 - United Kingdom
- o Asia-Pacific
 - China
 - Japan
 - India
 - Vietnam
 - South Korea
 - Australia
 - Thailand
- o Middle East & Africa
- South Africa

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- Saudi Arabia
- UAE
- Turkey
- o South America
- Brazil
- Argentina

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the global Commercial Aircraft Landing Gear Market.

Available Customizations:

Global Commercial Aircraft Landing Gear Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

□□ Detailed analysis and profiling of additional market players (up to five).

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Commercial Aircraft Landing Gear Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Gear Position (Main Landing, Nose Landing), By Component (Landing Gear Steering System, Wheel & Brake System, Actuation System, Others), By Aircraft Type(Narrow-Body, Wide Body, Regional Jet, Others), By Arrangement (Tricycle, Tandem, Tailwheel), By Region & Competition, 2020-2030F

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