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Commercial Aircraft Aftermarket Parts Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Aircraft Type (Narrow-Body, Wide-Body, Regional Jet), By Component Type (Airframe, Engine, Interior, Other Component), By Parts (MRO Parts, Rotable Replacement Parts), By Region & Competition, 2021-2031F

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Abstracts

The Global Commercial Aircraft Aftermarket Parts Market is set for substantial growth, projected to increase from USD 42.41 Billion in 2025 to USD 59.18 Billion by 2031, achieving a Compound Annual Growth Rate (CAGR) of 5.71%. This market encompasses essential replacement components, systems, and equipment crucial for the ongoing maintenance and overhaul of aviation fleets after their initial delivery. Growth is primarily driven by the increasing average age of the global fleet and intensive aircraft utilization, both necessitating frequent part replacements to ensure regulatory compliance. Furthermore, delayed deliveries of new airframes compel airlines to extend the operational lifespans of older planes, stimulating further demand for spare parts. The significant financial scale of this sector is evidenced by the international maintenance market surpassing $100 billion in direct annual spending in 2024, as reported by the Aeronautical Repair Station Association. Despite this robust trajectory, the market faces a significant impediment from supply chain volatility, with persistent raw material shortages and erratic delivery schedules creating bottlenecks that delay essential maintenance activities and increase operational costs for carriers. These logistical constraints hinder the timely availability of parts and restrict service providers' ability to efficiently meet the surging requirements of the global aviation industry.

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Market Driver

Original Equipment Manufacturer (OEM) production delays, which force airlines to extend the operational use of legacy aircraft, are a primary catalyst for aftermarket demand. As manufacturers grapple with persistent supply chain hurdles, carriers are compelled to rely longer on aging airframes, which require significantly more intensive component replacement than newer models. This reliance drives higher expenditure on heavy maintenance checks and overhaul kits, as older systems necessitate frequent repairs to ensure airworthiness. For instance, Delta Air Lines reported a 23% increase in aircraft maintenance materials and outside repairs expense in 2023, reflecting the escalating costs and material requirements associated with maintaining an active, maturing fleet due to insufficient new deliveries. Additionally, the surge in global air travel, leading to higher aircraft utilization rates, intensifies the consumption of consumable and rotable parts. As airlines maximize flight cycles to accommodate recovering passenger volumes, the wear and tear on critical systems like landing gear, avionics, and propulsion units accelerates, shortening the interval between required replacements. The International Air Transport Association noted a 7.1% year-on-year rise in revenue passenger kilometers in October 2024, indicating a sustained upward trend in fleet usage that directly correlates with parts depletion, benefiting major players like Lufthansa Technik, which reported EUR 6.5 billion in revenue for the previous fiscal year.

Market Challenge

Supply chain volatility represents a critical obstacle restricting the realizable growth of the Global Commercial Aircraft Aftermarket Parts Market. Scarcity of essential raw materials and erratic delivery schedules prevent manufacturers and distributors from fulfilling the immediate inventory requirements of airline operators. This unavailability forces service centers to delay scheduled overhauls, resulting in aircraft being grounded longer than necessary and preventing the aftermarket sector from fully capitalizing on the high volume of service demand. Consequently, potential revenue turnover is suppressed as the physical flow of replacement components lags behind the operational needs of the global fleet. The financial magnitude of these disruptions creates a severe drag on market efficiency and limits the sector's expansion capacity. As logistics networks falter, the industry incurs substantial inefficiencies that inflate costs without driving productive growth. The International Air Transport Association projected that by 2025, persistent supply chain constraints would inflict more than $11 billion in excess costs upon the airline industry, with approximately $3.1 billion specifically stemming from increased maintenance burdens and part unavailability.

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Ultimately, these logistical bottlenecks cap the upward trajectory of the aftermarket parts industry by physically restricting the volume of transactions that can be successfully executed.

Market Trends

Two key trends are currently reshaping the market: strategic consolidation and joint ventures between Original Equipment Manufacturers (OEMs) and Maintenance, Repair, and Overhaul (MRO) providers, and the integration of artificial intelligence (AI) for predictive maintenance strategies. Major players are pursuing mergers to secure intellectual property and expand technical capabilities, allowing for more effective supply chain control and integrated solutions that mitigate fragmentation risks. Acquiring niche repair shops further streamlines logistics and enables service providers to capture higher profit margins from specialized aftermarket activities; for instance, StandardAero's Component Repair Services revenue increased by 31.3% year-over-year in Q2 2025, partly due to the strategic acquisition of Aero Turbine, Inc. Concurrently, the adoption of AI for predictive maintenance is transforming how operators manage component lifecycles. Airlines are increasingly utilizing data-driven models with real-time telemetry to forecast part failures, which significantly reduces unscheduled downtime and optimizes stock levels. This digital connectivity ensures precise inventory allocation, minimizing capital tied up in unnecessary spare parts while guaranteeing availability for critical systems. Boeing's projection that over 80% of the global aircraft fleet will be 'e-enabled' by 2044 underscores the increasing reliance on digital analytics to drive future aftermarket efficiency.

Key Market Players

Aventure International Aviation Services LLC

Honeywell International Inc.

RTX Corporation

Parker-Hannifin Corporation

General Electric Company

Moog Inc.

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GKN Aerospace

A J Walter Aviation Limited

Bombardier Inc.

The Boeing Company

Report Scope

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

Commercial Aircraft Aftermarket Parts Market, By Aircraft Type

Narrow-Body

Wide-Body

Regional Jet

Commercial Aircraft Aftermarket Parts Market, By Component Type

Airframe

Engine

Interior

Other Component

Commercial Aircraft Aftermarket Parts Market, By Parts

MRO Parts

Rotable Replacement Parts

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Commercial Aircraft Aftermarket Parts Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

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Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Commercial Aircraft Aftermarket Parts Market.

Available Customizations:

Global Commercial Aircraft Aftermarket Parts 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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