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Aerospace Milled Parts Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Aircraft Type (Commercial Aircraft, Military Aircraft, General Aviation, Helicopter), By Application (Airframe, Engine, Interiors, Others), By Material Type (Aluminum, Stainless Steel, Titanium, Others), By Region & Competition, 2021-2031F

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Abstracts

The Global Aerospace Milled Parts Market is projected to expand from USD 25.93 Billion in 2025 to USD 39.24 Billion by 2031, reflecting a compound annual growth rate of 7.15%. This industry involves the fabrication of precision components via subtractive machining processes, utilizing computer numerical control technology to sculpt metals like titanium, aluminum, and steel into complex shapes for engines, airframes, and landing gear. The market is primarily propelled by escalating commercial aircraft production rates driven by recovering travel demand, alongside the critical engineering need for lightweight materials that improve operational performance and fuel efficiency.

However, the sector encounters substantial hurdles due to persistent supply chain disruptions, specifically regarding raw material availability and shortages of skilled labor, which threaten to delay production timelines. According to the Aerospace Industries Association, the aerospace and defense industry generated combined sales of $995 billion in 2024, marking a 4.2 percent increase from the prior year. This data emphasizes that while the demand for manufacturing output remains strong, the sector must navigate significant logistical challenges to maintain its growth trajectory.

Market Driver

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The surge in commercial aircraft production rates serves as a major catalyst for the Global Aerospace Milled Parts Market, requiring vast volumes of structural components such as fuselage frames, wing ribs, and bulkheads. As airlines aggressively renew fleets to capitalize on recovering passenger traffic, original equipment manufacturers are accelerating assembly lines, boosting orders for precision-machined aluminum and titanium parts. According to Airbus, the company delivered 766 commercial aircraft in 2024 and reported a record backlog of 8,658 jets in January 2025, highlighting the immense pressure on the supply chain to provide complex assemblies. This robust demand also permeates the business aviation sector; according to General Dynamics, its Aerospace segment revenue grew by 30.5 percent to $11.2 billion in 2024, driven by high-performance business jet deliveries.

Concurrently, rising global defense budgets are stimulating significant demand for high-tolerance milled parts needed for military transport aircraft, next-generation fighter jets, and unmanned aerial systems. Governments are prioritizing operational readiness and fleet modernization due to heightened geopolitical tensions, leading to the procurement of advanced platforms that rely on CNC-milled structures for durability. According to the Stockholm International Peace Research Institute, global military expenditure reached $2,718 billion in 2024, a real-term increase of 9.4 percent as of April 2025. This trend ensures long-term stability and capital investment for component manufacturers within the aerospace machining sector.

Market Challenge

Persistent supply chain disruptions and an acute shortage of skilled labor represent the primary obstacles hindering the expansion of the Global Aerospace Milled Parts Market. Manufacturers face severe difficulties in securing consistent volumes of high-grade raw materials, such as aluminum and titanium, which are essential for machining complex airframe and engine components. Additionally, a critical deficit in qualified CNC operators restricts machine utilization rates, preventing facilities from operating at the capacity necessary to meet rising production targets. These operational limitations force suppliers to extend lead times and delay deliveries, effectively capping the industry's output despite strong demand.

This inability to scale manufacturing operations creates a significant bottleneck that prevents potential market orders from converting into realized revenue. The magnitude of this constraint is reflected in the sector's accumulating unfilled orders, highlighting the widening gap between production capability and demand. According to the International Air Transport Association, the worldwide commercial backlog reached a historic high of

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more than 17,000 aircraft in 2024. This data indicates that labor and supply chain inefficiencies are physically limiting the number of finished components entering the market, thereby serving as a direct brake on overall sector growth.

Market Trends

The proliferation of robotic automation and digital manufacturing technologies is fundamentally reshaping the production landscape for aerospace milled parts. Manufacturers are aggressively integrating smart factory solutions and automated cells to enhance precision while mitigating the impact of persistent skilled labor deficits. This technological shift allows for consistent quality control and higher machine utilization rates in the fabrication of complex structural and engine components, reducing reliance on manual oversight. According to GE Aerospace, the company committed $650 million in March 2024 to its supply chain and manufacturing facilities to increase production capacity and ensure quality. This investment illustrates the industry-wide commitment to modernizing infrastructure to meet escalating airframe and engine delivery schedules.

Simultaneously, there is a distinct trend toward strategically outsourcing production to emerging Asia-Pacific hubs to diversify supply chains and optimize manufacturing costs. Tier 1 suppliers and OEMs are expanding partnerships in regions like India to leverage growing engineering capabilities and lower operational expenses for labor-intensive machining tasks. This geographical decentralization enhances global supply chain resilience against regional disruptions and reduces reliance on traditional Western manufacturing centers. According to the Ministry of Defence, Government of India, the nation recorded defense exports of INR 21,083 crore for the fiscal year 2023-24 in April 2024, registering a growth of 32.5 percent. This surge underscores the rapidly expanding role of Asian markets in the global aerospace value chain for precision-manufactured components.

Key Market Players

Air Industries Group

Spirit AeroSystems Inc

GKN Aerospace

LMI Aerospace Inc

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Magellan Aerospace Corporation

MinebeaMitsumi Inc

Precision Castparts Corp

Senior plc

The Boeing Company

General Electric Company.

Report Scope

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

Aerospace Milled Parts Market, By Aircraft Type

Commercial Aircraft

Military Aircraft

General Aviation

Helicopter

Aerospace Milled Parts Market, By Application

Airframe

Engine

Interiors

Others

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Aerospace Milled Parts Market, By Material Type

- Aluminum
- Stainless Steel
- Titanium
- Others

Aerospace Milled Parts Market, By Region

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - France
  - United Kingdom
  - Italy
  - Germany
  - Spain
- Asia Pacific
  - China
  - India
  - Japan

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Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Aerospace Milled Parts Market.

Available Customizations:

Global Aerospace Milled 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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