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Global Light-Weight Composite Fuselage Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GCA2D47427DAEN.html
Date: September 2026
Pages: 123
Price: US$ 4,480.00 (Single User License)
ID: GCA2D47427DAEN

Abstracts

The global Light-Weight Composite Fuselage market size is expected to reach $ 13678 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Lightweight composite aircraft fuselage structures are aircraft fuselage components made from carbon-fiber reinforced polymers, thermoset composites, thermoplastic composites, sandwich composite structures or hybrid composite-metallic assemblies. They include fuselage barrels, fuselage panels, forward, center and rear fuselage sections, tail cones, pressure shell structures, integrated frames, stringers and floor structures, and composite fuselage shells for commercial aircraft, business jets, helicopters, defense platforms and emerging advanced air mobility aircraft.

Lightweight composite aircraft fuselage structures represent one of the highest-value and most technically demanding segments of the aerospace composites market. Their value comes from weight reduction, fatigue resistance, corrosion resistance, improved structural efficiency and potential lifecycle maintenance benefits. In large commercial aircraft, composite fuselage structures are not simply material substitutions for aluminum; they require dedicated structural design, automated layup or fiber-placement processes, curing technologies, nondestructive inspection, lightning-strike protection, damage-tolerance analysis, repair methods and full airworthiness certification.

Demand is concentrated around aircraft platforms with high composite content, especially widebody commercial aircraft such as the Boeing 787 and Airbus A350. These programs account for a large share of global composite fuselage structure value because they use carbon-fiber reinforced polymer structures in major fuselage sections, barrels, panels and shells. Additional demand comes from business jets, military

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aircraft, rotorcraft, regional aircraft, advanced air mobility platforms and eVTOL aircraft, although these segments are smaller or earlier in their production ramp-up compared with large commercial aircraft.

The supply chain is highly concentrated and program-specific. Airbus / Airbus Atlantic, Boeing, Spirit AeroSystems, Leonardo Aerostructures and Kawasaki Heavy Industries are among the most important manufacturers of large composite fuselage sections. GKN Aerospace, Daher, FACC, Aernnova, Latecoere, KAI, Korean Air Aerospace Division and Saab also participate in fuselage structures or adjacent composite aerostructures across commercial, defense, rotorcraft, business jet and advanced air mobility platforms. Carbon-fiber, resin and prepreg suppliers such as Toray, Hexcel and Syensqo are critical to the ecosystem, but they should be treated as upstream material suppliers rather than core fuselage-structure manufacturers.

Technology competition is shaped by manufacturing scale, process repeatability, dimensional accuracy, defect control and certification experience. One-piece composite barrels, composite fuselage panels, hybrid composite-metal sections, thermoset CFRP prepreg structures, resin-infused structures, out-of-autoclave parts and thermoplastic composites all represent different engineering routes. The key challenge is to combine low structural weight with producibility, repairability, inspection reliability, crashworthiness, lightning protection and long-term durability. For large aircraft, production rate and quality consistency are as important as material performance.

Looking ahead, the market is expected to grow steadily as Boeing 787 and Airbus A350 production recovers, A350F and future widebody derivatives ramp up, and next-generation aircraft programs continue to explore higher composite content. Thermoset CFRP will remain the dominant material system in the near term, while thermoplastic composites, faster curing, automated assembly, composite welding, out-of-autoclave processes and improved nondestructive inspection are likely to gain importance. The long-term winners will be suppliers that can combine certified aerospace quality systems, large-scale composite manufacturing, automation, cost control and close integration with aircraft OEM programs.

Report Scope

This report studies the global Light-Weight Composite Fuselage demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Light-

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Weight Composite Fuselage, and provides market size (US$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Light-Weight Composite Fuselage that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Light-Weight Composite Fuselage total market, 2021-2032, (USD Million)

Global Light-Weight Composite Fuselage total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Light-Weight Composite Fuselage total market, key domestic companies, and share, (USD Million)

Global Light-Weight Composite Fuselage revenue by player, revenue and market share 2021-2026, (USD Million)

Global Light-Weight Composite Fuselage total market by Fuselage Structure Type, CAGR, 2021-2032, (USD Million)

Global Light-Weight Composite Fuselage total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Light-Weight Composite Fuselage market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Airbus, Spirit AeroSystems, Boeing Commercial Airplanes, Leonardo Aerostructures, Kawasaki Heavy Industries, GKN Aerospace, Daher, FACC AG, Aernnova, Latecoere, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Light-Weight Composite Fuselage market

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Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Fuselage Structure Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Light-Weight Composite Fuselage Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Light-Weight Composite Fuselage Market, Segmentation by Fuselage Structure Type:

One-piece Composite Barrels

Composite Fuselage Panels / Shells

Hybrid Composite-metal Fuselage Sections

Tail Cones and Aft Fuselage Shells

Floor / Frame / Stringer Integrated Structures

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Global Light-Weight Composite Fuselage Market, Segmentation by Manufacturing Process:

Automated Fiber Placement / Tape Laying with Autoclave

Manual / Semi-automated Layup with Autoclave

Resin Infusion / RTM / VARTM

Out-of-autoclave Curing

Thermoplastic Forming / Welding

Bonded / Hybrid Assembly

Global Light-Weight Composite Fuselage Market, Segmentation by Material System:

Thermoset CFRP Prepreg Structures

Thermoset CFRP Infusion / OOA Structures

Thermoplastic Composite Structures

Sandwich Composite Fuselage Structures

Hybrid Composite-metal Structures

Global Light-Weight Composite Fuselage Market, Segmentation by Application:

Widebody Commercial Aircraft

Business Jets and General Aviation

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Military Fixed-wing Aircraft

Rotorcraft

Advanced Air Mobility / eVTOL

Companies Profiled:

Airbus

Spirit AeroSystems

Boeing Commercial Airplanes

Leonardo Aerostructures

Kawasaki Heavy Industries

GKN Aerospace

Daher

FACC AG

Aernnova

Latecoere

Korea Aerospace Industries

Saab Aerostructures

Bombardier

Key Questions Answered

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1. How big is the global Light-Weight Composite Fuselage market?
2. What is the demand of the global Light-Weight Composite Fuselage market?
3. What is the year over year growth of the global Light-Weight Composite Fuselage market?
4. What is the total value of the global Light-Weight Composite Fuselage market?
5. Who are the Major Players in the global Light-Weight Composite Fuselage market?
6. What are the growth factors driving the market demand?

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