

# **Global Composites Market in the Commercial Aircraft Engines Industry by Aircraft Type (Narrow Body, Wide Body, and Very Large Aircraft), by Engine OEM (CFM, GE Aviation, Pratt & Whitney, Rolls Royce, IAE, Engine Alliance, and Others), by Material Type (Glass Composites, Carbon Composites, and Aramid Composites), by Manufacturing Process (Prepreg Layup, RTM, and Others), By Region (North America, Europe, Asia-Pacific, and Rest of the World): 2016 – 2021**

<https://marketpublishers.com/r/GC7BAAE4359EN.html>

Date: November 2024

Pages: 0

Price: US\$ 4,290.00 (Single User License)

ID: GC7BAAE4359EN

## **Abstracts**

This is the ONGOING report. If ordered it could be delivered in 2-3 weeks timeframe.

This report, from Stratview Research, studies the composites opportunity in the global commercial aerospace engine market over the period 2010 to 2021. The report provides detailed insights on the market dynamics to enable informed business decision making and growth strategy formulation based on the opportunities present in the market.

The Opportunity for Composites in the Global Commercial Aerospace Engine Market:  
Highlights

Composites offer many advantages over metals, such as lightweight, superior strength, higher durability, and ability to withstand extreme temperature. The history of composites in the aerospace and defense industry is over five decades old when major applications were limited to control surfaces only.

As global airline industry started evolving, the competition among players and the concern regarding saving the environment began rising. To remain competitive in the market, airline companies started demanding those aircraft that offer higher fuel efficiency, lower carbon emission, lower noise, lower maintenance cost, and higher passenger safety.

The composites' excellent performance over the decades compelled OEMs to leverage its potential to address the airline's demands. Major OEMs started incorporating high amount of composites (upto 50%) in most of the major structural applications like fuselage and wings in next generation aircraft. For instance, Boeing incorporated composites up to 50% of the total structural weight of the aircraft in its next generation aircraft, B787. Composites rich aircraft B787 provides 20% more fuel efficiency, 20% reduction in carbon emission, 30% reduction in maintenance cost and 5% reduction in noise than similar sized aircraft which has high metal content.

Aerospace engine OEMs are moving in tandem with the aircraft OEMs and are continuously looking for advanced materials for making engines lighter, durable, and have high fatigue performance. They started innovating by replacing traditional materials with composites in many applications. In the last 10 years, the industry noticed many new composite applications in the engine, such as fan blades and fan case.

The composite materials market in commercial aerospace engine industry offers a healthy growth opportunity and is likely to grow at 6.2% CAGR during the forecast period of 2016 to 2021. Robust growth in commercial aircraft deliveries and increasing composites penetration in the aircraft engine and nacelles, mainly in fan blade, fan case, thrust reverser, and cowl are the key growth drivers of the composite materials in the global commercial aerospace engine market.

Narrow body aircraft is expected to remain growth driver of the composite materials in the commercial aerospace engine market during the forecast period. Carbon composites are likely to experience the fastest growth in the next five years.

North America is expected to remain the largest market for composite materials in commercial aerospace engine being the manufacturing base of major engine OEMs and commercial aircraft OEMs.

The supply chain of this market comprises raw material manufacturers, composite

component manufacturers, Engine OEMs, Aircraft OEMs, and Airlines. The key aerospace engine OEMs are CFM, GE Aviation Engines, Rolls Royce, Pratt & Whitney, and IAE aerospace OEMs are Boeing, Airbus, COMAC, and Irkut.

The composite products are produced by independent manufacturers as well as engine OEMs. Many engine manufacturers have in-house composites manufacturing capacity, such as GE Aircraft Engines, which has facilities in the US. The key composite part manufactures in commercial aerospace engine market are Albany Engineered Composites, FACC AG, Aircelle, and GKN Aerospace. New product development, regional expansion, and long term contacts are the key strategies adopted by the key players to gain competitive edge in the market.

### Research Methodology

This report offers high quality insights and is the outcome of detailed research methodology comprising extensive secondary research, rigorous primary interviews with industry stakeholders and validation and triangulation with Stratview Research's internal database and statistical tools. More than 700 authenticated secondary sources, such as company annual reports, fact book, press release, journals, investor presentation, white papers, patents, and articles have been leveraged to gather the data. More than 15 detailed primary interviews with the market players across the value chain in the all four regions and industry experts have been executed to obtain both the qualitative and quantitative insights.

### Report Features

This report provides market intelligence in the most comprehensive way. The report structure has been kept such that it offers maximum business value. It provides critical insights on the market dynamics and will enable strategic decision making for the existing market players as well as those willing to enter the market. The following are the key features of the report:

Market structure: Overview, industry life cycle analysis, supply chain analysis

Market environment analysis: Growth drivers and constraints, Porter's five forces analysis, SWOT analysis

Market trend and forecast analysis

Market segment trend and forecast

Competitive landscape and dynamics: Market share, product portfolio, product launches, etc.

Attractive market segments and associated growth opportunities

Emerging trends

Strategic growth opportunities for the existing and new players

Key success factors

The composites in commercial aerospace engine market is segmented into the following categories.

Global Composites Market in Commercial Aerospace Engine Industry by Aircraft Type:

Narrow Body Aircraft

Wide Body Aircraft

Very Large Aircraft

Regional Aircraft

Global Composites Market in Commercial Aerospace Engine Industry by Engine OEM:

CFM (JV of GE and SNECMA)

GE Aviation

Pratt & Whitney

Rolls Royce

IAE (International Aero Engines)

Engine Alliance

Others

### Global Composites Market in Commercial Aerospace Engine Industry by Fiber Type

Glass Fiber Composites

Carbon Fiber Composites

Aramid Fiber Composites

### Global Composites Market in Commercial Aerospace Engine Industry by Process

Prepreg layup

Resin Transfer Molding (RTM)

Others

### Global Composites Market in Commercial Aerospace Engine Industry by Region

North America

Europe

Asia – Pacific

Rest of the World

### Report Customization Options

With this detailed report, Stratview Research offers one of the following free customization options to our respectable clients:

*Global Composites Market in the Commercial Aircraft Engines Industry by Aircraft Type (Narrow Body, Wide Body,...*

### Company Profiling

Detailed profiling of additional market players (upto 3)

SWOT analysis of key players (upto 3)

### Value Chain Analysis

Provide market size of one node top and bottom chain for year 2015

### Regional Segmentation

Current market segmentation of any one of the regions by fiber type

## Contents

Disclaimer  
Copyright  
Abbreviation  
Currency Exchange  
About Us  
Research Methodology  
Secondary Research  
Key Information Gathered from Secondary Research  
Primary Research  
Key Information Gathered from Primary Research  
Breakdown of Primary Interviews by Region, Designation, and Value Chain Node  
Data Analysis and Triangulation  
Report Scope  
Report Objectives

### **1. EXECUTIVE SUMMARY**

### **2. INDUSTRY OVERVIEW**

2.1. Introduction  
2.2. Industry Life Cycle Analysis  
2.3. Supply Chain Analysis  
2.4. Market Segmentation  
    2.4.1. By Aircraft Type  
    2.4.2. By Engine OEMs  
    2.4.3. By Fiber Type  
    2.4.4. By Manufacturing Process  
    2.4.5. By Region

### **3. MARKET ENVIRONMENT ANALYSIS**

3.1. PEST Analysis: Impact Assessment of Changing Business Environment  
3.2. Market Drivers  
3.3. Market Constraints  
3.4. Porter Five Forces Analysis  
    3.4.1. Bargaining Power of Suppliers  
    3.4.2. Bargaining Power of Customers

- 3.4.3. Threat of New Entrants
- 3.4.4. Threat of Substitutes
- 3.4.5. Competitive Rivalry
- 3.5. SWOT Analysis

#### **4. COMPOSITES MARKET IN THE GLOBAL COMMERCIAL AEROSPACE ENGINE INDUSTRY – BY AIRCRAFT TYPE**

- 4.1. Strategic Insights
- 4.2. Composites Market in the Global Commercial Aerospace Engine Industry by Aircraft Type in 2015
- 4.3. Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry by Aircraft Type (US\$ Million)
- 4.4. Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry by Aircraft Type (In Million lbs)
- 4.5. Growth Magnitude of the Composites Market in the Global Commercial Aerospace Engine Industry by Aircraft Type
- 4.6. Narrow Body Aircraft - Composites Market Trend and Forecast (US\$ Million and Million lbs)
- 4.7. Wide Body Aircraft - Composites Market Trend and Forecast (US\$ Million and Million lbs)
- 4.8. Very Large Aircraft - Composites Market Trend and Forecast (US\$ Million and Million lbs)

#### **5. COMPOSITES MARKET IN THE GLOBAL COMMERCIAL AEROSPACE ENGINE INDUSTRY – BY ENGINE OEM**

- 5.1. Strategic Insights
- 5.2. Composites Market in the Global Commercial Aerospace Engine Industry by Engine OEM in 2015
- 5.3. Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry by Engine OEM (US\$ Million)
- 5.4. Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry by Engine OEM (In Million lbs)
- 5.5. Growth Magnitude of the Composites Market in the Global Commercial Aerospace Engine Industry by Engine OEM
- 5.6. CFM's Commercial Aerospace Engine - Composites Market Trend and Forecast (US\$ Million and Million lbs)
- 5.7. GE's Commercial Aircraft Engine - Composites Market Trend and Forecast (US\$



Million and Million lbs)

5.8. Pratt & Whitney's Commercial Aircraft Engine - Composites Market Trend and Forecast (US\$ Million and Million lbs)

5.9. Rolls Royce's Commercial Aircraft Engine - Composites Market Trend and Forecast (US\$ Million and Million lbs)

5.10. IAE's Commercial Aircraft Engine - Composites Market Trend and Forecast (US\$ Million and Million lbs)

5.11. Engine Alliance's Commercial Aircraft Engine - Composites Market Trend and Forecast (US\$ Million and Million lbs)

5.12. Others OEMs' Commercial Aircraft Engine - Composites Market Trend and Forecast in the (US\$ Million and Million lbs)

## **6. COMPOSITES MARKET IN THE GLOBAL COMMERCIAL AEROSPACE ENGINE INDUSTRY – BY FIBER TYPE**

6.1. Strategic Insights

6.2. Composites Market in the Global Commercial Aerospace Engine Industry by Fiber Type in 2015

6.3. Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry by Fiber Type (US\$ Million)

6.4. Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry by Fiber Type (In Million lbs)

6.5. Growth Magnitude of the Composites Market in the Global Commercial Aerospace Engine Industry by Fiber Type

6.6. Glass Fiber Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry (US\$ Million and Million lbs)

6.7. Carbon Fiber Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry (US\$ Million and Million lbs)

6.8. Aramid Fiber Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry (US\$ Million and Million lbs)

## **7. COMPOSITES MARKET IN THE GLOBAL COMMERCIAL AEROSPACE ENGINE INDUSTRY – BY MANUFACTURING PROCESS**

7.1. Strategic Insights

7.2. Composites Market in the Global Commercial Aerospace Engine Industry by Manufacturing Process in 2015

7.3. Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry by Manufacturing Process (US\$ Million)

7.4. Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry by Manufacturing Process (In Million lbs)

7.5. Growth Magnitude of the Composites Market in the Global Commercial Aerospace Engine Industry by Manufacturing Process

7.6. Prepreg Layup Process - Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry (US\$ Million and Million lbs)

7.7. Resin Transfer Molding Process - Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry (US\$ Million and Million lbs)

7.8. Other Process - Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry (US\$ Million and Million lbs)

## **8. COMPOSITES MARKET IN THE GLOBAL COMMERCIAL AEROSPACE ENGINE INDUSTRY – BY REGION**

8.1. Strategic Insights

8.2. Composites Market in the Global Commercial Aerospace Engine Industry by Region in 2015

8.3. Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry by Region (US\$ Million)

8.4. Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry by Region (In Million lbs)

8.5. Growth Magnitude of the Composites Market in the Global Commercial Aerospace Engine Industry by Region

8.6. North America Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry (US\$ Million and Million lbs)

8.7. Europe Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry (US\$ Million and Million lbs)

8.8. Asia-Pacific Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry (US\$ Million and Million lbs)

8.9. Rest of the World Composites Market Trend and Forecast in the Global Commercial Aerospace Engine Industry (US\$ Million and Million lbs)

## **9. COMPETITIVE ANALYSIS**

9.1. Strategic Insights

9.2. Product Portfolio Analysis

9.3. Presence by Aircraft Segment

9.4. Geographical Presence

9.5. Key Customers Mapping

- 9.6. New Product Launches
- 9.7. Mergers and Acquisitions
- 9.8. Market Share Analysis

## **10. STRATEGIC GROWTH OPPORTUNITIES**

- 10.1. Strategic Insights
- 10.2. Market Attractive Analysis
  - 10.2.1. Market Attractiveness by Aircraft Type
  - 10.2.2. Market Attractiveness by Engine OEMs
  - 10.2.3. Market Attractiveness by Fiber Type
  - 10.2.4. Market Attractiveness by Manufacturing Process
  - 10.2.5. Market Attractiveness by Region
- 10.3. Emerging Trends
- 10.4. Key Success Factors
- 10.5. Growth Matrix Analysis

## **11. COMPANY PROFILE OF KEY PLAYERS**

- 11.1. Albany Engineered Composites
- 11.2. C-Fan
- 11.3. Nexcelle
- 11.4. GKN Aerospace
- 11.5. FACC AG
- 11.6. Aircelle

## I would like to order

Product name: Global Composites Market in the Commercial Aircraft Engines Industry by Aircraft Type (Narrow Body, Wide Body, and Very Large Aircraft), by Engine OEM (CFM, GE Aviation, Pratt & Whitney, Rolls Royce, IAE, Engine Alliance, and Others), by Material Type (Glass Composites, Carbon Composites, and Aramid Composites), by Manufacturing Process (Prepreg Layup, RTM, and Others), By Region (North America, Europe, Asia-Pacific, and Rest of the World): 2016 – 2021

Product link: <https://marketpublishers.com/r/GC7BAAE4359EN.html>

Price: US\$ 4,290.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GC7BAAE4359EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms

& Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970