United Kingdom Aerospace Carbon Fibre Market Report and Forecast 2024-2032

Market Report | 2024-06-20 | 176 pages | EMR Inc.

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Report description:

United Kingdom Aerospace Carbon Fibre Market Report and Forecast 2024-2032
Market outlook
According to the report by Expert Market Research (EMR), the United Kingdom aerospace carbon fibre market size is projected to further grow at a CAGR of 8.3% between 2024 and 2032. Aided by the increasing demand for lightweight and high-strength materials in aerospace applications and the growing adoption of carbon fibre composites in various aerospace components, the market is expected to significantly grow by 2032.
Carbon fibre is a high-strength, lightweight material known for its exceptional mechanical properties and resistance to fatigue and corrosion. In the aerospace sector, carbon fibre composites are used to manufacture various components, including fuselage sections, wings, tail assemblies, and interior parts. The material's superior strength-to-weight ratio significantly enhances aircraft performance, fuel efficiency, and overall durability, making it an invaluable component in modern aerospace engineering.
The increasing demand for lightweight and high-strength materials in aerospace applications is driving the United Kingdom aerospace carbon fibre market growth. With the growing emphasis on fuel efficiency and reducing greenhouse gas emissions, there has been a significant shift towards using carbon fibre composites in aircraft manufacturing. Additionally, the rising trend of electric and hybrid aircraft has further contributed to the increasing popularity of carbon fibre, as it helps to offset the weight of batteries and electric propulsion systems.
In commercial aviation, carbon fibre composites are used to manufacture primary and secondary structures, contributing to weight reduction and improved fuel efficiency. In the defence sector, the material is employed in the production of military aircraft, drones, and unmanned aerial vehicles (UAVs), enhancing their performance and operational capabilities. Moreover, the space sector utilises carbon fibre composites in the construction of satellites, launch vehicles, and space exploration equipment, benefiting from the material's lightweight and high-strength properties.
Further, the growing focus on advanced manufacturing technologies has led to increased adoption of carbon fibre in the aerospace sector. Innovations in additive manufacturing, automated fibre placement (AFP), and resin transfer moulding (RTM) have enabled the production of complex carbon fibre components with improved precision and efficiency. This trend is expected to boost the United Kingdom aerospace carbon fibre market share.
The rising trend of electric and hybrid aircraft is driving the demand for carbon fibre composites. These aircraft require lightweight

materials to offset the weight of batteries and electric propulsion systems, making carbon fibre an essential component in their construction. The use of carbon fibre composites contributes to the overall efficiency and performance of electric and hybrid aircraft, supporting the transition to more sustainable aviation solutions.

The expansion of the space sector is a key driver of the market. Carbon fibre composites are widely used in the construction of satellites, launch vehicles, and space exploration equipment, benefiting from their lightweight and high-strength properties. The increasing number of space missions and the growing demand for satellite-based services are expected to boost the adoption of carbon fibre composites in the space sector.

As per the United Kingdom aerospace carbon fibre market analysis, continuous carbon fibre is used in the production of high-performance aerospace components, offering superior strength and stiffness. It is commonly employed in the manufacture of primary structures, such as fuselage sections and wings. Long carbon fibre provides a balance between performance and cost, making it suitable for a wide range of aerospace applications. It is used in secondary structures and interior components, contributing to weight reduction and improved fuel efficiency. Short carbon fibre is used in applications where high strength and stiffness are not the primary requirements. It is employed in the production of non-structural components, such as interior parts and accessories.

Market Segmentation

The market can be divided based on material, type, application, and end use

Market Breakup by Material

-Pan Based
-Pitch Based

Market Breakup by Type

-Continuous Carbon Fibre
-Long Carbon Fibre
-Short Carbon Fibre

Market Breakup by Application

-Interior
oSeat
oCabin
oSandwich Panel
oOthers
-Exterior
oWing
oRotor Blades
oTail Boom
oOthers

Market Breakup by End Use

-Commercial Aircraft
-Military Fixed-wing Aircraft
-Rotorcraft
-Others

Competitive landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among other major developments, of the leading companies operating in United Kingdom aerospace carbon fibre market. some of the major players explored in the report by expert market research are as follows:

-Gen 2 Carbon Limited
-Crosby Composites Ltd.
-SGL Carbon Fibres Ltd.
-Hexcel Leicester

-Carbon Technology Ltd
-Solvay S.A.
-DowAksa
-Toray Group
-Others

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