

Global Composite Repair Market Size study & Forecast, by Product Type (Structural, Semi-Structural, Cosmetic), by Process (Hand Lay-Up, Vacuum Infusion, Autoclave, Other Processes), by End-User Industry (Aerospace and Defense, Wind Energy, Automotive, Marine, Construction, Other End-User Industries) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/G2A3799CA382EN.html>

Date: August 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G2A3799CA382EN

Abstracts

Global Composite Repair Market is valued approximately at USD XX billion in 2022 and is anticipated to grow with a growth rate of more than 8% over the forecast period 2023-2030. Composite repair refers to the process of restoring, reinforcing, or enhancing the structural integrity of composite materials through the application of specialized techniques and materials. It involves repairing damages, such as cracks, delamination, or impact damage, in composite structures using methods such as bonding, patching, or reinforcement. Composite repairs are aimed at extending the lifespan of composite components. They are crucial for ensuring safety and maintaining the desired performance. Composite repairs are an essential aspect of maintenance and structural integrity in various industries. These industries include aerospace, automotive, wind energy, and infrastructure. The factors driving the market are increasing demand for lightweight materials and growing infrastructure investments.

The International Energy Agency (IEA) highlights the significant benefits of light weighting vehicles through the use of composites in the automotive industry. According to the IEA, incorporating composites in vehicles can lead to a substantial reduction in fuel consumption. Specifically, cars can experience a fuel consumption reduction ranging from 18% to 50%, while trucks can achieve a fuel consumption reduction of 15% to 25%. Another factor driving the market growth is growing infrastructure

investments. According to The American Society of Civil Engineers (ASCE) estimated that the US needs to invest USD 4.5 trillion by 2025 to repair and upgrade its infrastructure. Moreover, advancements in composite repair technologies and increasing demand for renewable energy may create lucrative opportunities in the market. However, the limited adoption in traditional industries and high initial costs for setting up composite repair facilities stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Composite Repair Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the dominance of established aerospace and defense industry, advanced manufacturing capabilities and expertise in composite fabrication and focus on sustainability and environment concerns. However, Asia Pacific is expected to be the fastest growing region during the forecast period, owing to factors such as rising investments in infrastructure, increasing demand for lightweight materials, and expanding renewable energy sector.

Major market player included in this report are:

Boeing Company

Air France KLM Group

Composite Technology Inc.

Crawford Composites LLC

Lufthansa Technik AG

The IKM Group

WR Composites

TD Williamson Inc.

Hong Kong Aircraft Engineering Company Limited (HAECO)

Clock Spring Company Inc.

Recent Developments in the Market:

In March 2023, Honeywell and Lufthansa Technik have announced an enhanced collaboration on Lufthansa Technik's digital platform, AVIATAR, with the goal of improving the customer experience in aviation analytics.

In May 2022, Boeing India's collaboration with AIESL (Air India Engineering Services Limited) is expected to boost the BIRDS (Boeing India Repair Development and Sustainment) hub initiative. This collaboration between Boeing and AIESL will contribute to the development of a competitive MRO (Maintenance, Repair, and Overhaul) ecosystem in India.

Global Composite Repair Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Product Type, Process, End-User Industry, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product Type:

Structural

Semi-Structural

Cosmetic

By Process:

Hand Lay-Up

Vacuum Infusion

Autoclave

Other Processes

By End-User Industry:

Aerospace and Defense

Wind Energy

Automotive

Marine

Construction
Other End-User Industries

By Region:

North America
U.S.
Canada

Europe
UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC

Latin America
Brazil
Mexico

Middle East & Africa
Saudi Arabia
South Africa
Rest of Middle East & Africa

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