

**Composites Repair and Rehab Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Glass Fiber Composites, Carbon Fiber Composite, Others), By Application (Civil infrastructure, Existing and Historic Building, Parking Structure, Others), By Region and Competition, 2020-2030F**

Market Report | 2025-11-27 | 185 pages | TechSci Research

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**Report description:**

**Market Overview**

The Global Composites Repair and Rehab Market, valued at USD 1.58 Billion in 2024, is projected to experience a CAGR of 4.48% to reach USD 2.06 Billion by 2030. The Global Composites Repair and Rehabilitation market encompasses specialized processes and materials employed to restore or enhance the structural integrity and functional performance of damaged composite structures across diverse industries, including aerospace, marine, automotive, and construction. The market's expansion is fundamentally driven by the increasing adoption of lightweight and durable composite materials in various applications, alongside the economic imperative to extend asset lifespans through cost-effective maintenance solutions rather than full replacement.

**Key Market Drivers**

The imperative for cost-effectiveness heavily influences the Global Composites Repair and Rehabilitation market, as organizations increasingly prioritize repair over outright replacement to manage expenditures and minimize operational downtime. Composite repairs frequently offer a more economical alternative, extending asset lifespans without the capital investment of new construction. According to ASME PCC-2 guidance, as referenced in a June 2025 industry overview, composite repair techniques can eliminate 70-80% of hot work compared to metallic methods, enhancing safety and operational efficiency.

**Key Market Challenges**

The global composites repair and rehabilitation market faces a significant impediment due to the persistent shortage of skilled labor and specialized expertise required for advanced repair techniques. The intricate nature of composite materials and the precision essential for effective rehabilitation demand highly trained technicians. Without a sufficient pool of qualified personnel, projects can experience delays, increased costs, and compromised quality, directly hindering the market's capacity for growth and

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its ability to meet rising demand across key industries such as aerospace and wind energy.

#### Key Market Trends

The increasing integration of robotics and automation in repair processes significantly streamlines labor-intensive and complex composite repair tasks. These automated systems offer enhanced precision, repeatability, and speed, which are crucial for maintaining the structural integrity of advanced composite materials. According to the International Federation of Robotics (IFR), 541,302 industrial robots were installed globally in factories in 2023, representing the second-highest annual figure ever recorded. This demonstrates a broader industry adoption of automation that extends to specialized repair applications. Further illustrating this, a research paper published in Manufacturing Letters on March 27, 2024, detailed the development of a robotic and automated multi-tool designed for composite repair, aimed at reducing time and labor, especially for the expanding urban air mobility sector.

#### Key Market Players

- Air France-KLM
- Aegion Corp
- BASF SE
- Sika AG
- Simpson Strong-Tie Company, Inc.
- Mapei Corp
- Boeing Company
- Lufthansa Technik AG
- Hong Kong Aircraft Engineering Company Limited
- TD Williamson Inc.

#### Report Scope:

In this report, the Global Composites Repair and Rehab Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

##### -□Composites Repair and Rehab Market, By Product:

- o Glass Fiber Composites
- o Carbon Fiber Composite
- o Others

##### -□Composites Repair and Rehab Market, By Application:

- o Civil infrastructure
- o Existing and Historic Building
- o Parking Structure
- o Others

##### -□Composites Repair and Rehab Market, By Region:

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

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- Japan
- Australia
- South Korea
- o South America
- Brazil
- Argentina
- Colombia
- o Middle East & Africa
- South Africa
- Saudi Arabia
- UAE

#### Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Composites Repair and Rehab Market.

#### Available Customizations:

Global Composites Repair and Rehab 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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