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Unmanned Composites Market by Application (Interior, Exterior), Platform (UAV, USV, UGV, AUV, ROV, Passenger Drones, Autonomous Ships), Type (CFRP, GFRP, AFRP, BFRP), Subtype (Fiber, Matrix) and Region - Global Forecast to 2025

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Abstracts

Increasing use of unmanned composites to produce lightweight components driving the market growth of unmanned composites.

The unmanned composites market size is projected to grow from USD 1.0 billion in 2018 to USD 2.7 billion by 2025, at a CAGR of 15.52% during the forecast period. The market growth is driven by factors such as the rise in demand for composite materials to provide lightweight structures, improved performance of unmanned systems, and an increase in the deliveries of unmanned systems. Whereas, the lack of standardization of unmanned composites and high cost of manufacturing are limiting the overall growth of the market.

By type, CFRP composite market estimated to lead the unmanned composites market in 2019.

By type, the Carbon Fiber Reinforced Polymer (CFRP) composites market is estimated to account for the largest share of the unmanned composites market in 2019. CFRP is used to address the basic requirements, such as lightweight, cost-effectiveness, and mass-production, of unmanned system components. Also, a decrease in the cost of aerospace grade carbon fibers has bolstered the demand for carbon fiber reinforced polymer for use in UAVs. These are major factors driving the CFRP segment.

By application, exterior segment estimated to account for the major market share in

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2019.

By application, the exterior segment is estimated to account for a larger share of the unmanned composites market in 2019. There has been an increase in demand for composite materials from unmanned system manufacturers. Earlier exterior structures made of legacy materials are likely to get replaced by composites materials. OEMs prefer composite materials, such as carbon fiber, for the manufacturing of airframe structures in UAVs, UGVs, and USVs, which is, in turn, driving the demand for unmanned composites.

North America estimated to account for the largest share of the unmanned composites market in 2019.

North America is estimated to account for the largest share of the unmanned composites market in 2019. The region's leadership is attributed to the rise in demand by OEMs for innovative materials that are non-corrosive and lightweight. The growing market for UAVs within the region is also projected to drive the demand for composite materials, thereby supporting the growth of the unmanned composites market in North America.

Break-up of profiles of primary participants in the unmanned composites market

By Company Type: Tier 1 – 35%, Tier 2 – 45%, and Tier 3 – 20%

By Designation: C-Level Executives – 35%, Directors – 25%, and Others – 40%

By Region: North America – 45%, Europe – 20%, Asia Pacific – 30%, Rest of the World 5%

Key players in the unmanned composites market include Gurit (Switzerland), Hexcel Corporation (US), Materion Corporation (US), Mitsubishi Rayon (Japan), Owens Corning (US), Renegade Materials Corporation (US), Solvay (Belgium), Stratasys (US), Teijin Limited (Japan), Teledyne (US), and Toray Industries (Japan). These companies provide unmanned composites solutions in various countries across North America, Europe, Asia Pacific, the Middle East, and Rest of the World.

Research Coverage:

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The market study covers the unmanned composites market across segments. It aims at estimating the market size and the growth potential of this market across different segments, such as platform, application, type, and region. The study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Reasons to buy this report:

This report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall unmanned composites market and its subsegments. The report covers the entire ecosystem of the unmanned composites industry and will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

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12 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View)*

*Details on Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View might not be captured in case of unlisted companies.

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