

Global Unmanned Composites Market Size study & Forecast, by Platform (Unmanned Aerial Vehicle (UAV), Unmanned Ground Vehicle (UGV), Unmanned Surface Vehicle (USV), Autonomous Underwater Vehicle (AUV), Remotely Operated Vehicle (ROV), Autonomous Ship, Passenger Drone), by Application (Interior, Exterior), by Type (Carbon Fiber Reinforced Polymer (CFRP), Glass Fiber Reinforced Polymer (GFRP), Aramid Fiber Reinforced Polymer (AFRP), Boron Fiber Reinforced Polymer (BFRP)) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/G12D0D207130EN.html>

Date: May 2023

Pages: 200

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

ID: G12D0D207130EN

Abstracts

Global Unmanned Composites Market is valued approximately at USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. The Unmanned Composites Market refers to the market for unmanned aerial vehicles (UAVs) made of composite materials. Composite materials are a combination of two or more materials with different physical and chemical properties, designed to create a material with superior performance characteristics. The major driving factors for the Global Unmanned Composites Market are rising demand for lightweight and durable materials and growing demand for UAVs. Moreover, technological advancement and cohesive government support for development of unmanned composites is creating lucrative growth opportunities for the market during 2023-2030.

In 2019, the United States Army announced plans to purchase over 900 Unmanned

Aerial Systems (UAS) from Textron Systems, a leading provider of unmanned systems. The purchase was part of the army's effort to modernize its fleet and increase its unmanned capabilities. Along with this, in 2020, the global delivery company, UPS, received approval from the Federal Aviation Administration (FAA) to operate a fleet of drones for commercial deliveries. The company plans to use drones to deliver medical supplies and samples, as well as other items, to various locations.

Similarly, in 2021, the Australian Defense Force announced plans to acquire a fleet of MQ-9B SkyGuardian drones from General Atomics Aeronautical Systems to enhance its intelligence, surveillance, and reconnaissance capabilities. Thus, rising support of government for UAVs is driving the growth for the market. However, the high initial cost of Unmanned Composites stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Unmanned Composites Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America is currently the largest market for unmanned composites, with the United States is the major contributor to the market growth in the region. The presence of major players such as General Atomics, Northrop Grumman, and Boeing in the region is driving the market growth. Asia-Pacific is expected to be the fastest-growing market for UAVs made of composites in the coming years. The increasing demand for drones for commercial applications, such as aerial photography and delivery, is driving the growth of the market in the region. China is a major contributor to the growth of the market in the region, with the country being one of the largest producers of drones in the world.

Major market player included in this report are:

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)
Toray Industries (Japan)

Recent Developments in the Market:

DJI, a major drone manufacturer, launched the Mavic Air 2 drone in 2020, which is

made of composite materials and is designed for aerial photography and videography. Airbus launched a new type of drone called the Zephyr in 2021, which is made of composite materials and is capable of flying for up to 100 days without landing. The drone is designed for military and civilian applications such as surveillance, communication, and environmental monitoring.

Global Unmanned Composites 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 - Platform, Application, Type, 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 Platform offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Platform:

Unmanned Aerial Vehicle (UAV)

Unmanned Ground Vehicle (UGV)

Unmanned Surface Vehicle (USV)

Autonomous Underwater Vehicle (AUV)

Remotely Operated Vehicle (ROV)

Autonomous Ship

Passenger Drone

By Application:

Interior

Exterior

By Type:

Carbon Fiber Reinforced Polymer (CFRP)

Glass Fiber Reinforced Polymer (GFRP)

Aramid Fiber Reinforced Polymer (AFRP)

Boron Fiber Reinforced Polymer (BFRP)

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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