

# 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

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:

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.

## Contents

### 1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 MARKET SCOPE
  - 1.3.1 REGIONAL SCOPE
  - 1.3.2 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 LIMITATIONS
- 1.6 STAKEHOLDERS

### 2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
  - 2.1.1 SECONDARY DATA
    - 2.1.1.1 Key data from secondary sources
  - 2.1.2 PRIMARY DATA
    - 2.1.2.1 Key data from primary sources
  - 2.1.3 MARKET DEFINITION & SCOPE
- 2.2 RESEARCH APPROACH & METHODOLOGY
  - 2.2.1 STEP BY STEP APPROACH
  - 2.2.2 BOTTOM-UP APPROACH
  - 2.2.3 TOP-DOWN APPROACH
- 2.3 TRIANGULATION & VALIDATION
  - 2.3.1 TRIANGULATION THROUGH SECONDARY
  - 2.3.2 TRIANGULATION THROUGH PRIMARIES
- 2.4 RESEARCH ASSUMPTIONS
  - 2.4.1 MARKET SIZING AND MARKET FORECASTING
- 2.5 RISKS ANALYSIS

### 3 EXECUTIVE SUMMARY

### 4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE OPPORTUNITIES IN THE UNMANNED COMPOSITES MARKET FROM 2019 TO 2025
- 4.2 UNMANNED COMPOSITES MARKET, BY TYPE

4.3 UNMANNED COMPOSITES MARKET, BY PLATFORM

4.4 UNMANNED COMPOSITES MARKET, BY COUNTRY

## **5 MARKET OVERVIEW**

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Increasing need for weight reduction in unmanned systems

5.2.1.2 Improved performance of unmanned systems using composite materials

5.2.1.3 Increased reliability & durability of composite materials

5.2.2 RESTRAINTS

5.2.2.1 High manufacturing cost of unmanned systems using composite materials

5.2.2.2 Lack of standardization in composite materials

5.2.3 OPPORTUNITIES

5.2.3.1 Growing demand for unmanned systems in the commercial sector

5.2.3.2 Increased spending by manufacturers of unmanned systems in composite materials

5.2.4 CHALLENGES

5.2.4.1 Recyclability of composite materials

5.2.4.2 High repairing cost of composite materials

## **6 INDUSTRY TRENDS**

6.1 INTRODUCTION

6.2 INDUSTRY TRENDS

6.2.1 AEROSPACE APPLICATIONS

6.2.2 REDUCTION IN MANUFACTURING COST THROUGH WEIGHT REDUCTION ACHIEVED USING COMPOSITE MATERIALS

6.2.3 AUTOMOTIVE APPLICATIONS

6.2.4 REDUCTION IN MANUFACTURING COST THROUGH WEIGHT REDUCTION ACHIEVED USING COMPOSITE MATERIALS

6.2.5 MARINE APPLICATIONS

6.2.6 REDUCTION IN MANUFACTURING COST THROUGH WEIGHT REDUCTION ACHIEVED USING COMPOSITE MATERIALS

6.2.7 PROPERTIES OF COMPOSITES AND THEIR ADVANTAGES IN MARINE

6.3 CURRENT APPLICATIONS OF COMPOSITE MATERIALS, BY INDUSTRY

6.3.1 AEROSPACE APPLICATIONS OF COMPOSITE MATERIALS

6.3.2 AUTOMOTIVE APPLICATIONS OF COMPOSITE MATERIALS

- 6.3.3 UTILITY & POWER APPLICATIONS OF COMPOSITE MATERIALS
- 6.3.4 INFRASTRUCTURE APPLICATIONS OF COMPOSITE MATERIALS
- 6.3.5 MARINE APPLICATIONS OF COMPOSITE MATERIALS
- 6.4 COMPOSITION OF COMPOSITES MATERIALS IN UNMANNED SYSTEMS
  - 6.4.1 COMPOSITION OF COMPOSITES MATERIALS IN UNMANNED AERIAL VEHICLE
  - 6.4.2 COMPOSITION OF COMPOSITES MATERIALS IN UNMANNED GROUND VEHICLE
  - 6.4.3 COMPOSITION OF COMPOSITES MATERIALS IN UNMANNED SURFACE VEHICLE
  - 6.4.4 COMPOSITION OF COMPOSITES MATERIALS IN UNMANNED UNDERWATER VEHICLE
- 6.5 EMERGING TECHNOLOGIES IN UNMANNED COMPOSITES MARKET
  - 6.5.1 CELLULOSE-BASED CARBON FIBER
  - 6.5.2 HYBRID SMART MEMORY COMPOSITES
  - 6.5.3 3D PRINTING COMPONENTS
- 6.6 EMERGING INNOVATIONS IN COMPOSITE MATERIALS
  - 6.6.1 NATURAL FIBER INNOVATIONS
  - 6.6.2 CARBON FIBER INNOVATIONS
  - 6.6.3 GLASS FIBER INNOVATIONS
  - 6.6.4 COMPOUNDS FIBER INNOVATIONS
  - 6.6.5 RESIN FIBER INNOVATIONS
  - 6.6.6 CORE MATERIALS FIBER INNOVATIONS
- 6.7 WEIGHT SAVING POTENTIAL OF COMPOSITE MATERIALS

## **7 UNMANNED COMPOSITES MARKET, BY TYPE**

- 7.1 INTRODUCTION
- 7.2 CARBON FIBER REINFORCED POLYMER
  - 7.2.1 CARBON FIBER REINFORCED POLYMER, BY SUBSEGMENT
    - 7.2.1.1 Carbon fiber
      - 7.2.1.1.1 Maximum demand for carbon fiber for Commercial use
    - 7.2.1.2 Matrix
      - 7.2.1.2.1 Increase in use of matrix in industry to retain strength and shape at all temperature
- 7.3 GLASS FIBER REINFORCED POLYMER
  - 7.3.1 GLASS FIBER REINFORCED POLYMER, BY SUBSEGMENT
    - 7.3.1.1 Glass fiber
      - 7.3.1.1.1 Massive demand of glass fiber for structures of navy, aircraft, and vehicles

### 7.3.1.2 Matrix

7.3.1.2.1 Maximum used in unmanned systems structural components

## 7.4 BORON FIBER REINFORCED POLYMER

### 7.4.1 BORON FIBER REINFORCED POLYMER, BY SUBSEGMENT

#### 7.4.1.1 Boron fiber

7.4.1.1.1 Increasing adoption of boron fiber for aerospace application

#### 7.4.1.2 Matrix

7.4.1.2.1 Graphite epoxy matrix is used to improve the overall fiber properties

## 7.5 ARAMID FIBER REINFORCED POLYMER

### 7.5.1 ARAMID FIBER REINFORCED POLYMER, BY SUBSEGMENT

#### 7.5.1.1 Aramid fiber

7.5.1.1.1 Aramid fiber is a man-made organic polymer maximally used for ballistic application

#### 7.5.1.2 Matrix

7.5.1.2.1 Epoxy matrix is used in BFRP which is comparatively tough and flexible than other composites

## 8 UNMANNED COMPOSITES MARKET, BY PLATFORM

### 8.1 INTRODUCTION

#### 8.2 UAV

##### 8.2.1 CLASS II (150–600 KG)

8.2.1.1 Rise in demand for long-range unmanned aircraft for military application is driving the growth of Class II UAVs

##### 8.2.2 CLASS III (>600 KG)

8.2.2.1 Rise in demand for long range combat capabilities is driving the growth of class III UAVs

#### 8.3 UGV

##### 8.3.1 MEDIUM (200–500 LBS)

8.3.1.1 Medium land robots carry out critical missions, such as ISR operations, detection, and monitoring

##### 8.3.2 LARGE (500–1,000 LBS)

8.3.2.1 Large land robots have a high demand for military applications

##### 8.3.3 VERY LARGE (1,000–2,000 LBS)

8.3.3.1 Very large robots have high endurance and are used for long-range operations

##### 8.3.4 EXTREMELY LARGE (>2,000 LBS)

8.3.4.1 Extremely large robots are being explored for use in military as well as commercial applications

## 8.4 ROV

### 8.4.1 SMALL VEHICLES

8.4.1.1 Underwater inspection and observation applications from the marine and oil & gas industries are driving the demand for small vehicles

### 8.4.2 HIGH-CAPACITY ELECTRIC VEHICLES

8.4.2.1 Underwater surveillance is driving the demand for high-capacity electric vehicles

### 8.4.3 WORK CLASS VEHICLES

8.4.3.1 Growth of work class vehicles is mainly attributed to their increasing applicability for drill support and oceanic surveys

### 8.4.4 HEAVY WORK CLASS VEHICLES

8.4.4.1 Rise in subsea intervention activities is driving the growth of heavy work class vehicles

## 8.5 USV

### 8.5.1 SMALL

8.5.1.1 Small-sized USVs are gaining traction in the commercial sector, owing to their wide range of applications

### 8.5.2 LARGE

8.5.2.1 Large-sized USVs are increasingly used for mine countermeasure mission, anti-submarine warfare, and maritime shield

### 8.5.3 MEDIUM

8.5.3.1 Medium-sized USVs are increasingly used for pre-war and post-war maintenance and support by naval forces

### 8.5.4 EXTRA LARGE

8.5.4.1 Extra-large-sized USVs are used for missions that require large payloads and high autonomy

## 8.6 AUV

### 8.6.1 MAN-PORTABLE VEHICLES

8.6.1.1 Rise in demand for non-destructive testing is driving the demand for man-portable vehicles

### 8.6.2 LIGHTWEIGHT VEHICLES

8.6.2.1 Rise in demand from the oil & gas industry for underwater pipeline inspections is driving the growth of lightweight vehicles

### 8.6.3 HEAVYWEIGHT VEHICLES

8.6.3.1 Bathymetry surveying is driving the growth of the heavyweight vehicles category

### 8.6.4 LARGE VEHICLES

8.6.4.1 Rise in deep-sea surveying applications is driving the demand for large AUVs

## 8.7 PASSENGER DRONES



8.7.1 RISE IN DEMAND FOR URBAN AIR MOBILITY IS DRIVING THE MARKET FOR PASSENGER DRONES

8.8 AUTONOMOUS SHIPS

8.8.1 INCREASING INVESTMENTS ON THE DEVELOPMENT OF AUTONOMOUS SHIPS ARE EXPECTED TO DRIVE THE MARKET FOR UNMANNED COMPOSITES

## **9 UNMANNED COMPOSITES MARKET, BY APPLICATION**

9.1 INTRODUCTION

9.2 INTERIOR

9.2.1 CABIN

9.2.1.1 UAV cabins made of composites have resulted in 40-50% weight reduction

9.2.2 SANDWICH PANEL

9.2.2.1 Demand for high strength sandwich panel is anticipated to rise the demand for unmanned composites

9.2.3 DECK

9.2.3.1 Increased efficiency of unmanned surface vehicles due to composites is expected to drive the demand for unmanned composites

9.3 EXTERIOR

9.3.1 FUSELAGE

9.3.1.1 Reduce maintenance cost of fuselage made of composites is anticipated to drive the growth of unmanned composites during the forecast period

9.3.2 ENGINE

9.3.2.1 Composites providing significant efficiency boost to the engine cycle is expected to drive the demand for composites in future

9.3.3 WING

9.3.3.1 Need for fuel efficiency by UAVs is anticipated to increase the demand for unmanned composites during the forecast period

9.3.4 ROTOR BLADE

9.3.4.1 Demand for cost-efficient, reliable and durable rotor blades by UAVs is anticipated to drive the demand for unmanned composites

9.3.5 TAIL BOOM

9.3.5.1 Tail booms of rotary wing UAVs made with composites are 30% lighter reducing the overall weight of UAV

9.3.6 HULL

9.3.6.1 Rise in demand for glass reinforced composites by deep-submergence unmanned vehicles is anticipated to drive the demand for unmanned composites

## **10 UNMANNED COMPOSITES MARKET, BY REGION**

## 10.1 INTRODUCTION

## 10.2 NORTH AMERICA

### 10.2.1 US

10.2.1.1 Rise in demand for unmanned systems for military application is driving the market growth in the US

### 10.2.2 CANADA

10.2.2.1 In-house development of unmanned systems is driving the market for unmanned composites in Canada

## 10.3 EUROPE

### 10.3.1 RUSSIA

10.3.1.1 Presence of major companies producing advanced composites contribute to the growth of the market in Russia

### 10.3.2 UK

10.3.2.1 Key market players in the UK are focusing on collaborating with research institutes to increase the adoption of unmanned composites

### 10.3.3 GERMANY

10.3.3.1 Rise in production of unmanned composites by leading vendors drives the market growth in Germany

### 10.3.4 FRANCE

10.3.4.1 Increase in deliveries of unmanned systems by leading OEMs drives the market growth in France

### 10.3.5 SWEDEN

10.3.5.1 Commercialization of drone technology in the country is driving the market for unmanned composites

### 10.3.6 ITALY

10.3.6.1 Italian Civil Aviation Authority (ENAC) has updated regulations for drones for civilian & commercial applications

## 10.4 ASIA PACIFIC

### 10.4.1 CHINA

10.4.1.1 Increasing deployment of unmanned systems such as USVs and ROVs is driving the market for unmanned composites in China

### 10.4.2 JAPAN

10.4.2.1 Development of USVs and autonomous ships in the country drives the market for unmanned composites in Japan

### 10.4.3 INDIA

10.4.3.1 Government initiative for domestic production of unmanned systems through make in India program is driving the growth of unmanned composites market

### 10.4.4 AUSTRALIA

10.4.4.1 Growing use of UGVs for search and track operations is boosting the demand for unmanned composites in Australia

#### 10.4.5 SOUTH KOREA

10.4.5.1 Large capital investments in unmanned technology are driving the unmanned composites market in South Korea

#### 10.4.6 REST OF ASIA PACIFIC

10.4.6.1 Demand for unmanned systems for maritime application is driving the Rest of Asia Pacific unmanned composites market

### 10.5 MIDDLE EAST

#### 10.5.1 ISRAEL

10.5.1.1 Presence of key unmanned systems manufacturers fuels the market for unmanned composites in Israel

#### 10.5.2 TURKEY

10.5.2.1 Increased procurement of unmanned systems for homeland security missions boosts the unmanned composites market in Turkey

#### 10.5.3 UAE

10.5.3.1 Commercial application of unmanned systems is driving the demand for unmanned composites in the country

### 10.6 REST OF THE WORLD

## 11 COMPETITIVE LANDSCAPE

### 11.1 OVERVIEW

### 11.2 COMPETITIVE ANALYSIS

### 11.3 MARKET RANKING ANALYSIS

### 11.4 OEM COMPETITIVE LEADERSHIP MAPPING

#### 11.4.1 VISIONARY LEADERS

#### 11.4.2 INNOVATORS

#### 11.4.3 DYNAMIC DIFFERENTIATORS

#### 11.4.4 EMERGING COMPANIES

### 11.5 START-UP COMPETITIVE LEADERSHIP MAPPING

#### 11.5.1 PROGRESSIVE COMPANIES

#### 11.5.2 RESPONSIVE COMPANIES

#### 11.5.3 DYNAMIC COMPANIES

#### 11.5.4 STARTING BLOCKS

### 11.6 COMPETITIVE SCENARIO

#### 11.6.1 NEW PRODUCT LAUNCHES AND DEVELOPMENTS

#### 11.6.2 CONTRACTS, PARTNERSHIPS, AND AGREEMENTS

#### 11.6.3 OTHER STRATEGIES

## **12 COMPANY PROFILES**

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

- 12.1 INTRODUCTION
- 12.2 HEXCEL CORPORATION
- 12.3 TORAY INDUSTRIES, INC.
- 12.4 STRATASYS LTD.
- 12.5 TELEDYNE
- 12.6 GURIT
- 12.7 SOLVAY
- 12.8 OWENS CORNING
- 12.9 MATERION CORPORATION
- 12.10 MITSUBISHI RAYON CO. LTD.
- 12.11 RENEGADE MATERIALS CORPORATION
- 12.12 TEIJIN LIMITED
- 12.13 UNITECH AEROSPACE
- 12.14 CARBON BY DESIGN
- 12.15 QUANTUM COMPOSITES

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

## **13 APPENDIX**

- 13.1 DISCUSSION GUIDE
- 13.2 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL
- 13.3 AVAILABLE CUSTOMIZATIONS
- 13.4 RELATED REPORTS
- 13.5 AUTHOR DETAILS

## List Of Tables

### LIST OF TABLES

TABLE 1 UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 2 CARBON FIBER REINFORCED POLYMER MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 3 CARBON FIBER REINFORCED POLYMER MARKET SIZE, BY SUBSEGMENT, 2017–2025 (USD MILLION)

TABLE 4 GLASS FIBER REINFORCED POLYMER MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 5 GLASS FIBER REINFORCED POLYMER MARKET SIZE, BY SUBSEGMENT, 2017–2025 (USD MILLION)

TABLE 6 BORON FIBER REINFORCED POLYMER MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 7 BORON FIBER REINFORCED POLYMER MARKET SIZE, BY SUBSEGMENT, 2017–2025 (USD MILLION)

TABLE 8 ARAMID FIBER REINFORCED POLYMER MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 9 ARAMID FIBER REINFORCED POLYMER MARKET SIZE, BY SUBSEGMENT, 2017–2025 (USD MILLION)

TABLE 10 UNMANNED COMPOSITES MARKET SIZE, BY PLATFORM, 2017–2025 (USD MILLION)

TABLE 11 UAV SEGMENT, BY SUBTYPE, 2017–2025(USD MILLION)

TABLE 12 UGV SEGMENT, BY SUBTYPE, 2017–2025 (USD MILLION)

TABLE 13 ROV SEGMENT, BY SUBTYPE, 2017–2025 (USD MILLION)

TABLE 14 USV SEGMENT, BY SUBTYPE, 2017–2025 (USD MILLION)

TABLE 15 AUV SEGMENT, BY SUBTYPE, 2017–2025 (USD MILLION)

TABLE 16 MAJOR DEVELOPMENTS IN THE FIELD OF DRONE TAXIES

TABLE 17 UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 18 INTERIOR SEGMENT OF UNMANNED COMPOSITES MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 19 EXTERIOR SEGMENT OF UNMANNED COMPOSITES MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 20 UNMANNED COMPOSITES MARKET SIZE, BY REGION, 2017–2025 (USD MILLION)

TABLE 21 NORTH AMERICA: UNMANNED COMPOSITES MARKET SIZE, BY TYPE,

2017–2025 (USD MILLION)

TABLE 22 NORTH AMERICA: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 23 NORTH AMERICA: UNMANNED COMPOSITES MARKET SIZE, BY COUNTRY, 2017–2025 (USD MILLION)

TABLE 24 US: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 25 US: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 26 CANADA: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 27 CANADA: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 28 EUROPE: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 29 EUROPE: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 30 EUROPE: UNMANNED COMPOSITES MARKET SIZE, BY COUNTRY, 2017–2025 (USD MILLION)

TABLE 31 RUSSIA: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 32 RUSSIA: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 33 UK: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 34 UK: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 35 GERMANY: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 36 GERMANY: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 37 FRANCE: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 38 FRANCE: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 39 SWEDEN: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 40 SWEDEN: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 41 ITALY: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 42 ITALY: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 43 ASIA PACIFIC: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 44 ASIA PACIFIC: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 45 ASIA PACIFIC: UNMANNED COMPOSITES MARKET SIZE, BY COUNTRY, 2017–2025 (USD MILLION)

TABLE 46 CHINA: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 47 CHINA: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 48 JAPAN: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 49 JAPAN: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 50 INDIA: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 51 INDIA: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 52 AUSTRALIA: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 53 AUSTRALIA: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 54 SOUTH KOREA: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 55 SOUTH KOREA: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 56 REST OF ASIA PACIFIC: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 57 REST OF ASIA PACIFIC: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 58 MIDDLE EAST: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 59 MIDDLE EAST: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 60 MIDDLE EAST: UNMANNED COMPOSITES MARKET SIZE, BY

COUNTRY, 2017–2025 (USD MILLION)

TABLE 61 ISRAEL: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 62 ISRAEL: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 63 TURKEY: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 64 TURKEY: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 65 UAE: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 66 UAE: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 67 REST OF THE WORLD: UNMANNED COMPOSITES MARKET SIZE, BY TYPE, 2017–2025 (USD MILLION)

TABLE 68 REST OF THE WORLD: UNMANNED COMPOSITES MARKET SIZE, BY APPLICATION, 2017–2025 (USD MILLION)

TABLE 69 REST OF THE WORLD: UNMANNED COMPOSITES MARKET SIZE, BY COUNTRY, 2017–2025 (USD MILLION)

TABLE 70 NEW PRODUCT LAUNCHES AND DEVELOPMENTS, FEBRUARY 2015–MARCH 2019

TABLE 71 CONTRACTS, PARTNERSHIPS, AND AGREEMENTS, JUNE 2016–APRIL 2019

TABLE 72 OTHER STRATEGIES, JANUARY 2015–MARCH 2019



## List Of Figures

### LIST OF FIGURES

FIGURE 1 RESEARCH PROCESS FLOW

FIGURE 2 RESEARCH DESIGN

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 5 DATA TRIANGULATION

FIGURE 6 BASED ON APPLICATION, EXTERIOR SEGMENT PROJECTED TO LEAD UNMANNED COMPOSITES MARKET DURING THE FORECAST PERIOD

FIGURE 7 BASED ON TYPE, CARBON FIBER REINFORCED POLYMER SEGMENT ESTIMATED

TO ACCOUNT FOR LARGEST MARKET SHARE IN 2019

FIGURE 8 BASED ON PLATFORM, UAV SEGMENT ESTIMATED TO DOMINATE UNMANNED COMPOSITES MARKET IN 2019

FIGURE 9 NEED FOR LIGHTWEIGHT UNMANNED SYSTEMS AND IMPROVED PERFORMANCE OF UNMANNED SYSTEMS THROUGH COMPOSITE MATERIALS FUELING THE GROWTH OF UNMANNED COMPOSITES MARKET ACROSS THE GLOBE

FIGURE 10 UNMANNED COMPOSITES MARKET, BY TYPE, 2019 & 2025

FIGURE 11 UNMANNED COMPOSITES MARKET, BY PLATFORM

FIGURE 12 FRANCE UNMANNED COMPOSITES MARKET PROJECTED TO GROW AT

THE HIGHEST CAGR FROM 2019 TO 2025

FIGURE 13 MARKET DYNAMICS OF THE UNMANNED COMPOSITES MARKET

FIGURE 14 WEIGHT SAVING POTENTIAL OF COMPOSITE MATERIALS IN COMPARISON WITH OTHER MATERIALS

FIGURE 16 AUV SEGMENT TO RECORD HIGHEST CAGR DURING THE FORECAST PERIOD

FIGURE 17 EXTERIOR APPLICATION SEGMENT EXPECTED TO DOMINATE THE UNMANNED COMPOSITES MARKET DURING THE FORECAST PERIOD

FIGURE 18 GLOBAL SNAPSHOT: FRANCE HAS THE HIGHEST GROWTH POTENTIAL DURING

THE NEXT FIVE YEARS

FIGURE 19 NORTH AMERICA UNMANNED COMPOSITE MARKET SNAPSHOT

FIGURE 20 EUROPE UNMANNED COMPOSITES MARKET SNAPSHOT

FIGURE 21 ASIA PACIFIC UNMANNED COMPOSITE MARKET SNAPSHOT

FIGURE 22 MIDDLE EAST UNMANNED COMPOSITES MARKET SNAPSHOT

FIGURE 23 COMPANIES ADOPTED PARTNERSHIPS AS A KEY GROWTH STRATEGY BETWEEN JANUARY 2015 AND MARCH 2019

FIGURE 24 UNMANNED COMPOSITES MARKET OEM COMPETITIVE LEADERSHIP MAPPING, 2019

FIGURE 25 UNMANNED COMPOSITES MARKET START-UP COMPETITIVE LEADERSHIP MAPPING, 2019

FIGURE 26 HEXCEL CORPORATION: COMPANY SNAPSHOT

FIGURE 27 HEXCEL CORPORATION: SWOT ANALYSIS

FIGURE 28 TORAY INDUSTRIES, INC.: COMPANY SNAPSHOT

FIGURE 29 TORAY INDUSTRIES, INC.: SWOT ANALYSIS

FIGURE 30 STRATASYS LTD.: COMPANY SNAPSHOT

FIGURE 31 STRATASYS LTD.: SWOT ANALYSIS

FIGURE 32 TELEDYNE: COMPANY SNAPSHOT

FIGURE 33 TELEDYNE.: SWOT ANALYSIS

FIGURE 34 GURIT: COMPANY SNAPSHOT

FIGURE 35 GURIT.: SWOT ANALYSIS

FIGURE 36 SOLVAY: COMPANY SNAPSHOT

FIGURE 37 SOLVAY: SWOT ANALYSIS

FIGURE 38 OWENS CORNING: COMPANY SNAPSHOT

FIGURE 39 OWENS CORNING: SWOT ANALYSIS

FIGURE 40 MATERION CORPORATION: COMPANY SNAPSHOT

FIGURE 41 TEIJIN LIMITED: COMPANY SNAPSHOT

FIGURE 42 TEIJIN LIMITED: SWOT ANALYSIS

FIGURE 43 CARBON BY DESIGN: SWOT ANALYSIS

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