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Global Carbon Fiber Propeller for UAVs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fiber Propeller for UAVs market size is expected to reach $ 434 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, global Carbon Fiber Propeller for UAVs production reached approximately 380 k units?with an average global market price of around US$ 650 per unit, and a gross profit margin of approximately 20%-40%. Carbon Fiber Propellers for UAVs are lightweight, high-stiffness rotating blades made from carbon-fiber reinforced composites to convert motor power into thrust. Compared with plastic propellers, they provide higher structural rigidity, better aerodynamic stability, and improved fatigue resistance, which helps maintain efficiency at higher RPM and under heavier payload loads. They are commonly optimized for low vibration and precise balance to protect motors and flight controllers. Carbon fiber propellers are used in multirotor and fixed-wing UAVs for applications that require longer endurance, higher payload capacity, reduced deformation, and stable performance across varying temperatures and operating conditions. The industrial chain of Carbon Fiber Propellers for UAVs includes upstream carbon fiber yarn or fabric, resin systems, prepregs, core materials, metal hubs or inserts, molds, release agents, surface coatings, and balancing weights. Midstream covers aerodynamic design, layup planning, molding and curing, trimming and machining, hub bonding, surface finishing, static/dynamic balancing, and strength and fatigue testing. Downstream demand comes from UAV OEMs, drone integrators, aftermarket replacement channels, and operators in agriculture, surveying, public safety, logistics, and industrial inspection. Supporting services include customization, certification support, quality traceability, and after-sales warranty.

The market for carbon fiber propellers for UAVs is driven by the shift toward longer

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endurance, higher payload, and lower vibration requirements in professional drone applications. As multirotors grow in size and mission duration, operators demand propellers with better stiffness and fatigue life to maintain efficiency and reduce maintenance caused by deformation and imbalance. Product differentiation is moving toward optimized airfoils, quieter operation, foldable structures, and tighter balancing tolerances, while reliability and safety testing become more important for fleet operations. However, carbon fiber propellers face competition from engineered plastics that offer lower cost and adequate performance for light-duty drones. Key constraints include raw material cost, process yield, and consistency control across batches. Overall, steady growth is expected as industrial UAV adoption expands and customers prioritize lifecycle performance over initial price.

This report studies the global Carbon Fiber Propeller for UAVs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Fiber Propeller for UAVs and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbon Fiber Propeller for UAVs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Fiber Propeller for UAVs total production and demand, 2021-2032, (K Units)

Global Carbon Fiber Propeller for UAVs total production value, 2021-2032, (USD Million)

Global Carbon Fiber Propeller for UAVs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Carbon Fiber Propeller for UAVs consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Carbon Fiber Propeller for UAVs domestic production, consumption, key domestic manufacturers and share

Global Carbon Fiber Propeller for UAVs production by manufacturer, production, price,

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value and market share 2021-2026, (USD Million) & (K Units)

Global Carbon Fiber Propeller for UAVs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Carbon Fiber Propeller for UAVs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Carbon Fiber Propeller for UAVs market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include T-MOTOR, Hobbywing, XOAR, Master Airscrew, APC Propellers, Sensenich Propeller, WhirlWind Propellers, Hartzell Propeller, Aerodine Composites, Mejzlik Propellers, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Carbon Fiber Propeller for UAVs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Carbon Fiber Propeller for UAVs Market, By Region:

United States

China

Europe

Japan

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South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Propeller for UAVs Market, Segmentation by Type:

Folding Propeller

One-Piece Fixed Propeller

Others

Global Carbon Fiber Propeller for UAVs Market, Segmentation by UAVs:

Multi-rotor UAVs

Fixed-wing UAVs

Others

Global Carbon Fiber Propeller for UAVs Market, Segmentation by Size:

5-inch

6-inch

10-inch

Others

Global Carbon Fiber Propeller for UAVs Market, Segmentation by Application:

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Commercial UAVs

Industrial UAVs

Others

Companies Profiled:

T-MOTOR

Hobbywing

XOAR

Master Airscrew

APC Propellers

Sensenich Propeller

WhirlWind Propellers

Hartzell Propeller

Aerodine Composites

Mejzlik Propellers

Helix-Carbon GmbH

Flyber

E-PROPS

Sterna Propellers

Key Questions Answered:

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1. How big is the global Carbon Fiber Propeller for UAVs market?
2. What is the demand of the global Carbon Fiber Propeller for UAVs market?
3. What is the year over year growth of the global Carbon Fiber Propeller for UAVs market?
4. What is the production and production value of the global Carbon Fiber Propeller for UAVs market?
5. Who are the key producers in the global Carbon Fiber Propeller for UAVs market?
6. What are the growth factors driving the market demand?

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Figure 70. Research Process and Data Source

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