

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

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Abstracts

The global Carbon Fiber Propeller market size is expected to reach \$ 778 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

In 2025, global Carbon Fiber Propeller production reached approximately 770 k units with an average global market price of around US\$ 600 per unit, and a gross profit margin of approximately 20%-40%. Carbon Fiber Propellers are composite rotating blades made from carbon-fiber reinforced materials that convert motor or engine power into thrust. Compared with plastic or aluminum blades, they offer higher stiffness, lower deformation at high RPM, and better fatigue resistance, helping maintain aerodynamic efficiency and reduce vibration. They are designed around diameter, pitch, airfoil geometry, and hub interface to match different propulsion loads. Carbon fiber propellers are used in UAVs, marine propulsion, industrial fans, and other applications requiring lightweight structure, stable performance, and long service life under cyclic loads. The industrial chain of Carbon Fiber Propellers includes upstream carbon fiber yarn/fabric, resin systems, prepregs, core materials, metal hubs or inserts, molds, release agents, coatings, and balancing weights. Midstream processes cover aerodynamic design, layup planning, molding and curing, trimming and machining, hub bonding or assembly, surface finishing, static/dynamic balancing, and strength and fatigue testing. Downstream demand comes from propulsion system OEMs, integrators, aftermarket replacement channels, and operators needing high efficiency and reliability. Supporting services include customization, quality traceability, certification support, and after-sales warranty.

The carbon fiber propeller market is supported by increasing demand for high-efficiency, low-vibration propulsion across UAVs and other lightweight propulsion applications. As platforms move toward larger payloads, longer endurance, and stricter reliability

requirements, buyers prefer propellers with higher stiffness, better balance consistency, and stronger fatigue life to reduce maintenance and improve mission stability. Product differentiation is moving toward optimized low-noise airfoils, foldable or quick-release hub designs, improved erosion resistance, and tighter quality control for batch-to-batch consistency. However, cost remains a key constraint because composite materials and manufacturing yield drive pricing, while engineered plastics compete in cost-sensitive segments. Overall growth is expected to remain steady as users prioritize lifecycle performance and operators scale fleet utilization.

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

This report is a detailed and comprehensive analysis of the world market for Carbon Fiber Propeller 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 that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

Global Carbon Fiber Propeller production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

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

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

This report profiles key players in the global Carbon Fiber Propeller 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, E-PROPS, Mejlík Propellers, Sensenich Propeller, Hartzell Propeller, Aerodine Composites, Helix-Carbon GmbH, WhirlWind 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 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 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Propeller Market, Segmentation by Type:

Folding Propeller

One-Piece Fixed Propeller

Others

Global Carbon Fiber Propeller Market, Segmentation by Material:

Full Carbon Propeller

Hybrid Carbon Propeller

Global Carbon Fiber Propeller Market, Segmentation by Size:

5-inch

6-inch

10-inch

Others

Global Carbon Fiber Propeller Market, Segmentation by Application:

UAV

eVTOL

Marine Propulsion

Others

Companies Profiled:

T-MOTOR

HOBBYWING

XOAR

E-PROPS

Mejzlik Propellers

Sensenich Propeller

Hartzell Propeller

Aerodine Composites

Helix-Carbon GmbH

WhirlWind Propellers

Master Airscrew

APC Propellers

Flyber

Sterna Propellers

Key Questions Answered:

1. How big is the global Carbon Fiber Propeller market?
2. What is the demand of the global Carbon Fiber Propeller market?
3. What is the year over year growth of the global Carbon Fiber Propeller market?
4. What is the production and production value of the global Carbon Fiber Propeller

market?

5. Who are the key producers in the global Carbon Fiber Propeller market?

6. What are the growth factors driving the market demand?

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