

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

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Abstracts

The global Carbon Fiber Composite Tubes market size is expected to reach \$ 3914 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

In 2025, global Carbon Fiber Composite Tube output reached about 45,000 tons and global capacity of around 50,000 tons. The average price is about USD 48,000 per ton, with gross margins near 39%. Carbon Fiber Composite Tubes are lightweight, high-strength structural tubes manufactured by combining continuous carbon fiber reinforcement with polymer resin matrices such as epoxy, vinyl ester, polyester, or thermoplastic resins through processes including pultrusion, filament winding, roll wrapping, compression molding, and resin transfer molding. They offer an excellent strength-to-weight ratio, high stiffness, corrosion resistance, fatigue resistance, low thermal expansion, and good vibration damping, making them widely used in aerospace, automotive, industrial equipment, robotics, sporting goods, medical devices, marine, renewable energy, and defense applications. The supply chain begins with upstream raw materials including polyacrylonitrile (PAN)-based or pitch-based carbon fibers, resin systems, curing agents, release agents, core materials, and auxiliary consumables; continues through midstream manufacturing involving fiber prepreg production, tube forming, curing, machining, surface finishing, inspection, and testing; and ends with downstream integration into finished products such as aircraft structures, UAV frames, automotive drive shafts, robotic arms, bicycle frames, fishing rods, telescopic poles, medical imaging equipment, industrial rollers, wind energy components, and other lightweight structural assemblies.

The Carbon Fiber Composite Tubes market is experiencing strong growth driven by increasing demand for lightweight, high-strength materials that improve energy

efficiency, performance, and durability across multiple industries. In aerospace and defense, manufacturers are replacing metal components with carbon fiber composite tubes to reduce aircraft weight, improve fuel efficiency, and support next-generation UAVs and satellite structures. The automotive industry is expanding the use of composite tubes in electric vehicles, racing cars, and high-performance driveline systems to offset battery weight and meet stricter emission regulations. Rapid adoption of industrial automation, collaborative robots, and autonomous mobile robots is creating additional demand for lightweight structural members that enable faster motion and lower energy consumption. Growth in renewable energy, sporting goods, marine equipment, medical devices, and telecommunications infrastructure is also supporting market expansion due to the materials' corrosion resistance, high stiffness, and long service life. Furthermore, advances in automated fiber placement, pultrusion, filament winding, thermoplastic composites, and lower-cost carbon fiber production are improving manufacturing efficiency, reducing production costs, and expanding the commercial adoption of carbon fiber composite tubes across both high-end and mass-market applications.

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

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

Highlights and key features of the study

Global Carbon Fiber Composite Tubes total production and demand, 2021-2032, (Kilotons)

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

Global Carbon Fiber Composite Tubes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Carbon Fiber Composite Tubes consumption by region & country, CAGR, 2021-2032 & (Kilotons)

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

Global Carbon Fiber Composite Tubes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Carbon Fiber Composite Tubes production by Type, production, value, CAGR,

2021-2032, (USD Million) & (Kilotons)

Global Carbon Fiber Composite Tubes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Carbon Fiber Composite Tubes 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 Weihai Guangwei Composites, Rock West Composites, Clearwater Composites, DragonPlate, CST Composites, ACP Composites, Exel Composites, Composite Resources, Carbon by Design, Bercella S.r.l., 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 Composite Tubes market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Composite Tubes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Composite Tubes Market, Segmentation by Type:

Standard Modulus (SM) Type

Intermediate Modulus (IM) Type

High Modulus (HM) Type

Ultra-High Modulus (UHM) Type

Global Carbon Fiber Composite Tubes Market, Segmentation by Outer Diameter:

100 mm

Global Carbon Fiber Composite Tubes Market, Segmentation by Wall Thickness:

5 mm

Global Carbon Fiber Composite Tubes Market, Segmentation by Application:

Aerospace & Defense

Automotive

Robotics

Industrial

Oil & Gas

Construction

Sporting Goods

Others

Companies Profiled:

Weihai Guangwei Composites

Rock West Composites

Clearwater Composites

DragonPlate

CST Composites

ACP Composites

Exel Composites

Composite Resources

Carbon by Design

Bercella S.r.l.

CarboTech Composites

Weihai Tuozechan Fiber

Weihai Jingsheng Carbon Fiber

Carbon Fibre Tubes

Key Questions Answered:

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

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