

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

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## Abstracts

The global Carbon Fiber Underbody market size is expected to reach \$ 1307 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

Carbon fiber underbody is a vehicle underbody protection and aerodynamic component made from carbon fiber reinforced polymer (CFRP) through processes such as molding and RTM. Their core function is to provide high-strength protection while reducing weight by more than 30% compared to traditional plastics or metals, thereby lowering the vehicle's center of gravity, improving handling stability, and reducing wind resistance and extending the driving range of electric vehicles by optimizing airflow. They solve safety hazards caused by the heavy weight of traditional underbody panels, such as a strong 'floating' feeling in crosswinds, severe body roll during cornering, and impact wear on the battery pack. Furthermore, the corrosion resistance of carbon fiber extends the service life of chassis components. The upstream supply chain begins with chemical raw materials such as acrylonitrile, which are polymerized and carbonized to produce carbon fiber tows, which are then combined with matrices such as epoxy resin to create intermediate materials such as prepregs or woven fabrics. Downstream, they are directly delivered to automotive OEMs (especially for new energy vehicles and high-performance cars) and the aftermarket, installed under the chassis on the assembly line to precisely wrap and protect core components such as the battery pack and motor. In 2025, the production of carbon fiber underbody will be approximately 160,000 units, with an average price of approximately US\$5,000 per unit, a gross profit margin of approximately 30%, and a single line capacity of 3,000 units per year.

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

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

### **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global Carbon Fiber Underbody 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 Mubea, Magna International Inc., Debotech AG, Manthey-Racing GmbH, Prodrive, Multimatic Inc., APR Performance, Verus Engineering, Tstar Composites, Guangdong Yatai New Material Technology Co., Ltd., 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 Underbody 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 Underbody Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Carbon Fiber Underbody Market, Segmentation by Type:

Thermoset Carbon Fiber Underbody

Thermoplastic Carbon Fiber Underbody

Prepreg-Based Carbon Fiber Underbody

#### Global Carbon Fiber Underbody Market, Segmentation by Structure:

Flat Underbody Panel

Diffuser-Integrated Underbody

Battery Pack Lower Housing

Global Carbon Fiber Underbody Market, Segmentation by Application:

Passenger Vehicle

Commercial Vehicle

Companies Profiled:

Mubea

Magna International Inc.

Debotech AG

Manthey-Racing GmbH

Prodrive

Multimatic Inc.

APR Performance

Verus Engineering

Tstar Composites

Guangdong Yatai New Material Technology Co., Ltd.

Dongguan Action Composites Co

**Key Questions Answered:**

1. How big is the global Carbon Fiber Underbody market?
2. What is the demand of the global Carbon Fiber Underbody market?
3. What is the year over year growth of the global Carbon Fiber Underbody market?

4. What is the production and production value of the global Carbon Fiber Underbody market?
5. Who are the key producers in the global Carbon Fiber Underbody market?
6. What are the growth factors driving the market demand?

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