

# Global Carbon Fiber Underbody Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Carbon Fiber Underbody market size was valued at US\$ 823 million in 2025 and is forecast to a readjusted size of US\$ 1307 million by 2032 with a CAGR of 6.8% during review period.

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 is a detailed and comprehensive analysis for global Carbon Fiber Underbody

market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Carbon Fiber Underbody market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Carbon Fiber Underbody market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Carbon Fiber Underbody market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Carbon Fiber Underbody market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Carbon Fiber Underbody

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Carbon Fiber Underbody market based on the following parameters - company overview, sales quantity, revenue, 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.

## **Market Segmentation**

Carbon Fiber Underbody market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Thermoset Carbon Fiber Underbody

Thermoplastic Carbon Fiber Underbody

Prepreg-Based Carbon Fiber Underbody

### Market segment by Structure

Flat Underbody Panel

Diffuser-Integrated Underbody

Battery Pack Lower Housing

### Market segment by Application

Passenger Vehicle

Commercial Vehicle

### Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Carbon Fiber Underbody product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon Fiber Underbody, with price, sales quantity, revenue, and global market share of Carbon Fiber Underbody from 2021 to 2026.

Chapter 3, the Carbon Fiber Underbody competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon Fiber Underbody breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Carbon Fiber Underbody market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Carbon Fiber Underbody.

Chapter 14 and 15, to describe Carbon Fiber Underbody sales channel, distributors, customers, research findings and conclusion.

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