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# Global Automotive Carbon Fiber Parts Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Automotive Carbon Fiber Parts market size was valued at US$ 778 million in 2025 and is forecast to a readjusted size of US$ 1709 million by 2032 with a CAGR of 12.0% during review period.

Automotive carbon fiber parts are vehicle components whose main load-bearing or visible structures are made from carbon-fiber-reinforced plastics (CFRP), rather than traditional metals or standard plastics. Typical parts include exterior body panels such as hoods, roofs, fenders, spoilers and doors, as well as structural elements like roof bows, pillars, cross-members, crash beams and battery enclosures, plus interior trim, seat shells and aerodynamic add-ons. These parts exploit CFRP?s combination of very low density, high stiffness and strength, fatigue and corrosion resistance, and good energy-absorption behavior in crashes.

Upstream, automotive carbon fiber parts rely on carbon fibers, polymer matrices, plus sizings, core materials and process auxiliaries. Downstream, automotive carbon fiber parts are primarily used in body-in-white structures, closures, exterior panels, wheels, suspension arms, leaf springs, seat shells, cross-members, battery enclosures and hydrogen storage tanks, targeting mainly premium and performance ICE vehicles, battery electric vehicles (BEVs) and motorsport programs.

In 2024, the average market price of global automotive carbon fiber parts was approximately US$158/kg, with a gross profit margin of approximately 25%-35%.

The market for automotive carbon fiber parts has evolved from a niche focused on

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racing and supercars into a broader field that now includes premium passenger vehicles, performance models and selected mainstream and electric vehicles. Industry studies on automotive carbon fiber composites and carbon fiber in the automotive market consistently describe robust growth, underpinned by the shift toward lightweight multi-material body structures, electrification and tighter emissions and efficiency regulations. Carbon fiber components are increasingly used not only in exterior body panels but also in structural elements such as roof structures, pillars, cross-members and battery enclosures, particularly where designers want to combine weight reduction with high stiffness and safety performance. Flagship projects in electric mobility and lightweight ?life modules? in early composite-intensive vehicles from major German manufacturers have demonstrated that CFRP can be industrialized at meaningful volumes, which has helped the supply chain to mature.

Several structural drivers explain why demand is expected to keep expanding. First, carbon fiber parts directly serve OEM strategies for reducing vehicle mass to improve fuel economy or extend electric-vehicle driving range, while at the same time offering excellent crash energy absorption and fatigue resistance. Second, the material allows extensive part integration and design freedom: large CFRP modules can replace multi-piece metal assemblies, reduce joints and enable more aerodynamic styling, which is highlighted in multiple technical reviews of CFRP in the automotive industry. Third, carbon fiber surfaces and visible weave patterns support premium ?high-tech? design language, making CFRP parts attractive for brands that want both functional and aesthetic differentiation in performance and luxury segments.

At the same time, the market still faces barriers that limit penetration into fully mass-market vehicles, including high raw-material and processing costs, relatively long cycle times for thermoset CFRP, challenges in automated high-volume manufacturing, and open questions around repairability and end-of-life recycling. In response, OEMs and suppliers are developing faster-curing resins, thermoplastic CFRP solutions, high-pressure resin transfer molding and out-of-autoclave processes, together with new joining and recycling routes.

Automotive carbon fiber parts will continue to grow from today?s strong base in sports, luxury and electric vehicles into wider use in structural and semi-structural applications, especially where regulations and brand positioning justify a premium material choice.

This report is a detailed and comprehensive analysis for global Automotive Carbon Fiber Parts market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly

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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 Automotive Carbon Fiber Parts market size and forecasts, in consumption value ($ Million), 2021-2032

Global Automotive Carbon Fiber Parts market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Automotive Carbon Fiber Parts market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global Automotive Carbon Fiber Parts market shares of main players, in revenue ($ Million), 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 Automotive Carbon Fiber Parts

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 Automotive Carbon Fiber Parts market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CSP (Teijin Automotive Technologies), Mubea, ACTION COMPOSITES, Carbon by Design, SGL Carbon, Toray, MCCFC, Carbon Revolution, Voith Composites, Ensinger, etc.

This report also provides key insights about market drivers, restraints, opportunities,

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new product launches or approvals.

**Market segmentation**

Automotive Carbon Fiber Parts 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Body & Exterior

Chassis & Suspension

Powertrain & Driveline

Interior & Seating

Other

Market segment by Resin System

Thermoset

Thermoplastic

Market segment by Molding Methods

Pultrusion

Filament-winding Molding

Resin Transfer Molding (RTM)

Press Molding

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Autoclave Molding (AC)

Oven Molding

Sheet-wrap Molding

Injection Molding

Market segment by Application

Passenger Vehicles

Commercial Vehicles

Market segment by players, this report covers

CSP (Teijin Automotive Technologies)

Mubea

ACTION COMPOSITES

Carbon by Design

SGL Carbon

Toray

MCCFC

Carbon Revolution

Voith Composites

Ensinger

R?chling

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Hankuk Carbon

Weihai Guangwei Composites

HRC

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

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

Chapter 2, to profile the top players of Automotive Carbon Fiber Parts, with revenue, gross margin, and global market share of Automotive Carbon Fiber Parts from 2021 to 2026.

Chapter 3, the Automotive Carbon Fiber Parts competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and

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Automotive Carbon Fiber Parts market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Automotive Carbon Fiber Parts.

Chapter 13, to describe Automotive Carbon Fiber Parts research findings and conclusion.

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Table 121. Global Automotive Carbon Fiber Parts Typical Customers

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