

Global Carbon-Carbon Composite Brake Discs Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G3DE07E593A2EN.html>

Date: July 2026

Pages: 130

Price: US\$ 3,480.00 (Single User License)

ID: G3DE07E593A2EN

Abstracts

According to our (Global Info Research) latest study, the global Carbon-Carbon Composite Brake Discs market size was valued at US\$ 1358 million in 2025 and is forecast to a readjusted size of US\$ 1987 million by 2032 with a CAGR of 5.5% during review period.

Carbon-carbon composite brake discs refer to high-energy braking components manufactured from carbon fibre reinforced carbon matrix composites, typically formed through fibre preforming, chemical vapour infiltration or deposition, liquid impregnation and carbonisation, high-temperature heat treatment, oxidation protection and precision machining. The scope of this study focuses on C/C brake discs, rotors, stators, carbon heat sinks and heat packs used in aircraft wheel braking systems, military aircraft, certified civil aviation replacement programmes and selected top-tier motorsport applications. Their principal value lies in combining low density, high thermal capacity, high-temperature structural stability and repeatable friction performance under severe braking energy and thermal shock conditions.

Public pricing is limited: motorsport carbon-carbon discs can be observed at several thousand euros per disc in open channels, while certified aircraft discs and heat packs are generally priced through aircraft programme, certification, lifecycle and aftermarket supply contracts.

Based on our research, the carbon-carbon composite brake disc industry should be viewed as a high-certification aerospace safety component segment rather than a premium extension of the ordinary automotive brake disc market. Its core barriers lie in fibre preform architecture, densification process control, friction stability, oxidation

protection, high-energy dynamometer validation, aircraft programme qualification and long-cycle aftermarket support. In this context, material capability alone is not sufficient to define a credible manufacturer. A supplier must demonstrate the ability to deliver repeatable thermal-mechanical performance, comply with aircraft programme requirements and support replacement demand over a long service life.

The global supply structure remains concentrated. Safran Landing Systems, Collins Aerospace, Honeywell Aerospace and Parker Meggitt represent the primary global aerospace wheel-and-brake OEM group. China has developed a parallel domestic supplier base led by Xi'an Aviation Brake Technology, Beijing Beimo, Hunan Boyun, Xi'an Chaoma and Yantai Luhang, while DACC Carbon in South Korea and Rubin Aviation Corporation in Russia mainly serve regional military or domestic aircraft programmes. Motorsport carbon-carbon braking is a separate high-value, low-volume submarket where Brembo, PFC Brakes, AP Racing and SGL Carbon have stronger relevance.

Demand is underpinned by aircraft deliveries, in-service fleet growth and aftermarket replacement cycles. Airbus and Boeing both project more than 40,000 new aircraft deliveries over the 2025-2044 period, while passenger traffic is expected to continue expanding in 2026. Safran's decision to invest in a new aircraft carbon brake production facility in France further supports the view that leading suppliers expect sustained long-term demand for carbon brakes. In China, domestic aircraft programmes, civil aviation PMA replacement parts and military aviation upgrades provide a distinct growth channel for local suppliers.

Technologically, C/C brake discs retain strong relevance in aircraft and top-tier racing, but they should not be conflated with carbon-ceramic C/SiC brake discs used in high-performance road vehicles. Carbon-ceramic discs are better aligned with road-car requirements such as oxidation resistance, wet performance and broader low-temperature usability, whereas C/C brakes are designed for controlled, high-temperature and high-energy operating envelopes. This is why the narrow market scope in this report excludes road-car carbon-ceramic discs and focuses on aircraft C/C brake discs, heat packs and certified replacement parts.

This report is a detailed and comprehensive analysis for global Carbon-Carbon Composite Brake Discs market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Product Form 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-Carbon Composite Brake Discs market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

Global Carbon-Carbon Composite Brake Discs market size and forecasts, by Product Form and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Carbon-Carbon Composite Brake Discs market shares of main players, shipments in revenue (\$ Million), sales quantity (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-Carbon Composite Brake Discs

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-Carbon Composite Brake Discs 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 Safran Landing Systems, Collins Aerospace, Honeywell Aerospace, Parker Meggitt Aircraft Braking Systems, Xi'an Aviation Brake Technology, Beijing Beimo High-tech Frictional Material, Hunan Boyun New Materials, Xi'an Chaoma Technology, Yantai Luhang Carbon Materials, DACC

Carbon, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Carbon-Carbon Composite Brake Discs market is split by Product Form and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Product Form, 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 Product Form

Brake Disc / Rotor

Stator / Pressure Plate

Carbon Heat Sink / Heat Pack

Other

Market segment by Supply Route

OEM Line-fit

Certified Aftermarket / PMA

Military Programme Supply

Racing

Other

Market segment by Technology Route

CVI / CVD-densified C/C

Liquid Impregnation Carbonised C/C

Hybrid Densification C/C

Other

Market segment by Application

Commercial Aircraft

Military Aircraft

Motorsport

High-energy Braking

Other

Major players covered

Safran Landing Systems

Collins Aerospace

Honeywell Aerospace

Parker Meggitt Aircraft Braking Systems

Xi'an Aviation Brake Technology

Beijing Beimo High-tech Frictional Material

Hunan Boyun New Materials

Xi'an Chaoma Technology

Yantai Luhang Carbon Materials

DACC Carbon

Rubin Aviation Corporation

Brembo N.V.

PFC Brakes

SGL Carbon SE

Mersen

AP Racing

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-Carbon Composite Brake Discs product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon-Carbon Composite Brake Discs, with price, sales quantity, revenue, and global market share of Carbon-

Carbon Composite Brake Discs from 2021 to 2026.

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

Chapter 4, the Carbon-Carbon Composite Brake Discs 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 Product Form and by Application, with sales market share and growth rate by Product Form, 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-Carbon Composite Brake Discs market forecast, by regions, by Product Form, 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-Carbon Composite Brake Discs.

Chapter 14 and 15, to describe Carbon-Carbon Composite Brake Discs sales channel, distributors, customers, research findings and conclusion.

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