

Global Carbon-Ceramic Composite Brake Disc Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Carbon-Ceramic Composite Brake Disc market size was valued at US\$ 1585 million in 2024 and is forecast to a readjusted size of USD 2770 million by 2031 with a CAGR of 8.4% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A carbon-ceramic composite brake disc is a high-performance braking component used in high-performance vehicles, particularly in sports cars and racing cars. It is made from a combination of carbon-derived materials and ceramic materials that are compressed and heated to high temperatures to create a lightweight and durable material.

Carbon-ceramic brake discs offer several advantages over traditional iron discs, including better heat resistance, reduced weight, improved performance under high-stress conditions, and longer lifespan. They also provide excellent braking performance, reducing brake fade and providing stronger and more consistent braking power.

This report is a detailed and comprehensive analysis for global Carbon-Ceramic Composite Brake Disc 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-Ceramic Composite Brake Disc market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Carbon-Ceramic Composite Brake Disc market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Carbon-Ceramic Composite Brake Disc market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Carbon-Ceramic Composite Brake Disc market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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-Ceramic Composite Brake Disc

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-Ceramic Composite Brake Disc 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 Brembo, CCYS Hi-Tech International, AP Racing, Surface Transforms plc, DACC Carbon, AKEBONO BRAKE INDUSTRY, MAT Foundry Group, KBC Co., Ltd., Anhui Truchum Advanced Materials & Technology, Beijing Tianyishangjia High-tech Materials Corp., etc.

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

Market Segmentation

Carbon-Ceramic Composite Brake Disc market is split by Type and by Application. For the period 2020-2031, 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

Short Fiber Carbon-Ceramic Composite Brake Disc

Long-fiber Carbon-Ceramic Composite Brake Disc

Market segment by Application

Automotive

Aerospace

Others

Major players covered

Brembo

CCYS Hi-Tech International

AP Racing

Surface Transforms plc

DACC Carbon

AKEBONO BRAKE INDUSTRY

MAT Foundry Group

KBC Co., Ltd.

Anhui Truchum Advanced Materials & Technology

Beijing Tianyishangjia High-tech Materials Corp.

STOPART

Hunan Shixin New Material

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-Ceramic Composite Brake Disc product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon-Ceramic Composite Brake Disc, with price, sales quantity, revenue, and global market share of Carbon-Ceramic Composite Brake Disc from 2020 to 2025.

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

Chapter 4, the Carbon-Ceramic Composite Brake Disc breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Carbon-Ceramic Composite Brake Disc market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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-Ceramic Composite Brake Disc.

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

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