

Commercial Aircraft Carbon Brakes Market Size, Share, Trends and Forecast by Aircraft Type, Material, Manufacturing Process, End User, and Region, 2026-2034

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Abstracts

The global commercial aircraft carbon brakes market size was valued at USD 1,151.2 Million in 2025. Looking forward, IMARC Group estimates the market to reach USD 2,026.7 Million by 2034, exhibiting a CAGR of 6.29% from 2026-2034. North America currently dominates the market, holding a market share of over 35.0% in 2025. The significant growth in commercial aircraft production, heightened demand for fuel efficiency and sustainability, rapid technological advancements in brake materials, and ongoing growth in air traffic and fleet expansion are some of the major factors bolstering the commercial aircraft carbon brakes market share.

Carbon brakes help stop a moving aircraft by exploiting friction between the rotating and stationary discs. These brakes are durable and resistant against high temperature, thermal shock and mechanical fatigue. Consequently, they are widely preferred over steel brakes in commercial aircraft. The retrofitting of these brakes in certain airplanes models can help decrease fuel consumption and reduce carbon dioxide (CO₂) emissions. Moreover, improvements in the manufacturing and overhaul procedures have reduced the overall cost of carbon brakes, which is expanding their applications in small, short-haul commercial aircraft.

The rising air passenger traffic on account of inflating disposable incomes, increasing business travels and the easy availability of online travel bookings represents one of the key factors bolstering the market growth. Moreover, the growing international trade, along with the escalating demand for high-performance brakes in commercial aircraft, is also stimulating the market growth. Furthermore, advantages associated with carbon

brakes, such as long service intervals, low maintenance costs, high energy absorption and fast cooling rates, are increasing their adoption over conventional brakes. Apart from this, with the rising environmental concerns, governing agencies of various countries are imposing stringent standards on greenhouse gas (GHG) emission from the aviation industry, which is influencing the market positively. However, a decline in travel and tourism activities due to the spread of the coronavirus disease (COVID-19) and suspension of various domestic and international airline services is negatively impacting the market growth. It is anticipated to experience growth once lockdown restrictions are relaxed.

Market Segmentation

This report provides an analysis of the key trends in each sub-segment of the global commercial aircraft carbon brakes market report, along with forecasts at the global, regional and country level from 2026-2034. The report has categorized the market based on aircraft type, material, manufacturing process and end user.

Breakup by Aircraft Type

Narrow-body Aircraft

Wide-body Aircraft

Others

Breakup by Material

Petroleum Pitch

Polyacrylonitrile

Breakup by Manufacturing Process

Chemical Vapor Infiltration

Liquid Phase Infiltration

Breakup by End User

OEM

Aftermarket

Breakup by Region

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape

The report has also analysed the competitive landscape of the market with some of the key players being Airbus SE, Crane Company, Honeywell International Inc., Meggitt Plc, Mersen, Mitsubishi Heavy Industries Ltd., Parker-Hannifin Corporation, Raytheon Technologies Corporation, Safran S.A. and SGL Carbon SE.

Key Questions Answered in This Report

1. How big is the commercial aircraft carbon brakes market?
2. What is the future outlook of commercial aircraft carbon brakes market?
3. What are the key factors driving the commercial aircraft carbon brakes market?
4. Which region accounts for the largest commercial aircraft carbon brakes market share?
5. Which are the leading companies in the global commercial aircraft carbon brakes market?

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