

Global Carbon Fibre Rotor Sleeve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fibre Rotor Sleeve market size is expected to reach \$ 3642 million by 2032, rising at a market growth of 11.0% CAGR during the forecast period (2026-2032).

Carbon fiber rotor sheaths are reinforcing protective structures used on the exterior of high-speed permanent magnet motor rotors, made from high-performance carbon fiber composite materials. Through their high strength and lightweight characteristics, they encase and lock the magnets, effectively preventing magnet scattering caused by centrifugal force during high-speed rotation. Simultaneously, they reduce eddy current losses, narrow the air gap, and significantly improve the motor's power density and stability.

Upstream, the focus is on high-performance raw materials and precision manufacturing equipment. The core materials are high-modulus or high-strength carbon fiber and high-temperature resistant special epoxy resin. Furthermore, the high-precision fiber winding machine, tension control system, and curing mold required for production determine the initial mechanical properties of the sheath. The structural integrity and performance of the carbon fiber sleeve rotor depend on the integration method of fixing the composite material to the magnet surface. Although various assembly technologies exist, they differ significantly in terms of prestressing capacity, thermal management, production scalability, and long-term reliability.

Global sales in 2025 were approximately 20.97 million units, with an average selling price of \$85 per unit. The industry gross margin was around 30%.

In the field of high-performance motor manufacturing, carbon fiber rotor sheaths are

considered a strategic supporting material for achieving 'high power density' and 'ultra-high speed'. As motor speeds move from the traditional 15,000 rpm to a new era of 25,000 rpm and even 100,000 rpm, traditional alloy sheaths are rapidly reaching their physical limits due to their heavy weight and huge eddy current losses under high-frequency magnetic fields. Carbon fiber, with its extremely high specific strength and excellent electromagnetic transparency, has become an irreplaceable evolutionary direction for high-end permanent magnet motors.

This report studies the global Carbon Fibre Rotor Sleeve production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Fibre Rotor Sleeve and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbon Fibre Rotor Sleeve that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Fibre Rotor Sleeve total production and demand, 2021-2032, (K Units)

Global Carbon Fibre Rotor Sleeve total production value, 2021-2032, (USD Million)

Global Carbon Fibre Rotor Sleeve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Carbon Fibre Rotor Sleeve consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Carbon Fibre Rotor Sleeve domestic production, consumption, key domestic manufacturers and share

Global Carbon Fibre Rotor Sleeve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Carbon Fibre Rotor Sleeve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Carbon Fibre Rotor Sleeve production by Application, production, value, CAGR,

2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Carbon Fibre Rotor Sleeve market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AVANCO Composites, Connova Deutschland, Arnold Magnetic Technologies, Electron Energy Corporation, Schunk Kohlenstofftechnik, Bunting Magnetics, Albany International, Polar Technology, Huayu New Material, Zibo Langda Composite Material, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Carbon Fibre Rotor Sleeve market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Carbon Fibre Rotor Sleeve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fibre Rotor Sleeve Market, Segmentation by Type:

Sleeve

Taping

Global Carbon Fibre Rotor Sleeve Market, Segmentation by Operating Environment:

Standard Type

High Temperature Type

Global Carbon Fibre Rotor Sleeve Market, Segmentation by Application Speed:

Medium-High Speed

Ultra-High Speed

Global Carbon Fibre Rotor Sleeve Market, Segmentation by Application:

Automotive

Aerospace

Industrial Machinery

Others

Companies Profiled:

AVANCO Composites

Connova Deutschland

Arnold Magnetic Technologies

Electron Energy Corporation

Schunk Kohlenstofftechnik

Bunting Magnetics

Albany International

Polar Technology

Huayu New Material

Zibo Langda Composite Material

AIC Magnetics

Jiangsu Junhua Special Polymer

Key Questions Answered:

1. How big is the global Carbon Fibre Rotor Sleeve market?
2. What is the demand of the global Carbon Fibre Rotor Sleeve market?
3. What is the year over year growth of the global Carbon Fibre Rotor Sleeve market?
4. What is the production and production value of the global Carbon Fibre Rotor Sleeve market?
5. Who are the key producers in the global Carbon Fibre Rotor Sleeve market?
6. What are the growth factors driving the market demand?

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