

# Carbon Nanotubes Market Size | Business Opportunities, Challenges, Drivers | Growth Report, 2032

*Carbon nanotubes (CNTs) are one-dimensional allotropes of carbon made by rolling sheet of graphene, an advanced material that can be engineered.*

WILMINGTON, DE, UNITED STATES,  
June 18, 2025 /EINPresswire.com/ --

Carbon Nanotubes Market by Type ((Single-Walled Carbon Nanotubes (SWCNTs) and Multi-Walled Carbon Nanotubes (MWCNTs)), Application (Structural Polymer Composites, Conductive Polymer Composites, Conductive Adhesives, Fire Retardant Plastics, Metal Matrix Composites, Li-ion Battery Electrodes, and Others), and End User (Electricals & Electronics, Aerospace & Defense, Energy, Sporting Goods, Automotive, Industrial, and Others): Opportunity Analysis and Industry Forecast, 2020-2027". As per the report, the global carbon nanotubes industry was pegged at \$2.6 billion in 2019, and is estimated to reach \$5.8 billion by 2027, growing at a CAGR of 10.7% from 2020 to 2027.

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The global carbon nanotubes market size was valued at \$15.3 billion in 2017, and is projected to reach \$103.2 billion by 2030, growing at a CAGR of 16.3% from 2021 to 2030”

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Drivers, restraints, and opportunities

Increasing demand in the electricals & electronics industries, growing demand from the Asia-Pacific region,

surge in penetration in the aerospace & defense sector have boosted the growth of the global carbon nanotubes market. Moreover, wide acceptance of MWCNTs, significant investment in R&D, and rise in demand for renewable energy sources supplemented the market growth.

However, high production cost of SWCNT and increasing demand for inorganic and boron nitride nanotubes hamper the market. On the contrary, rising healthcare market in the Asia-Pacific region and growing penetration in the automotive industry are expected to create lucrative opportunities for the market players in the coming years.

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The aerospace & defense segment is expected to manifest the highest CAGR through 2027

By end user, the aerospace & defense segment is anticipated to portray the highest CAGR of 12.7% during the forecast period, owing to growing demand for lightweight structural components and electronic packaging for aircrafts, communications systems, and aerospace applications. However, the automotive segment held the largest share in 2019, accounting for nearly one-third of the global carbon nanotubes market, due to use of CNTs in automobile fuel systems, braking components, and tire reinforcement.

Asia-Pacific, followed by North America, held the lion's share

By region, the global carbon nanotubes market across Asia-Pacific, followed by North America, held the largest share in 2019, contributing to nearly half of the market. Moreover, the region is expected to portray the highest CAGR of 11.6% during the forecast period, due to presence of vast manufacturing base in countries such as China, Japan, Australia, and India. The research also offers a detailed analysis of regions including North America, Europe, and LAMEA.

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Major market players

Arkema Group Cheap Tubes Inc. Chasmod Advanced Materials Inc. Futurecarbon GmbH Cnano Technology Limited Klean Industries Inc. Hyperion Catalysis International Nano-C Inc. LG Chem Nanocyl SA OCSiAl Toray Industries, Inc.

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