

# **Asia Pacific Carbon Nanotubes Market Forecast to 2028 –Regional Analysis – by Type (Multi-Walled Carbon Nanotubes and Single-Walled Carbon Nanotubes), and Application (Electronics and Semiconductors, Energy Storage, Structural Composites, Aerospace and Defense, Medical, and Others)**

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## **Abstracts**

The Asia Pacific carbon nanotubes market is expected to grow from US\$ 2,446.01 million in 2022 to US\$ 5,988.60 million by 2028. It is estimated to grow at a CAGR of 16.1% from 2022 to 2028.

Utilization of Carbon Nanotubes in 3D Printing is Fueling Asia Pacific Carbon Nanotubes Market

Carbon nanotubes are known for their mechanical, electrical, and thermal capabilities, making them ideal for 3D printing polymer integration. 3D printing or additive manufacturing is already an area of focus for researchers and several manufacturers across the region due to its advantages such as characteristic efficiency, low wastage, and high flexibility. Further, the incorporation of CNTs in nanocomposite ink for 3D printing can enhance the functionality of this advanced printing process and impart electrostatic dissipative properties. Electrostatic Discharge (ESD) is a major challenge for the electronics and aerospace industries. ESD can potentially damage aircraft components and spacecraft. Therefore, CNTs are incorporated in polymer to make the 3D-printed complex structures ESD-safe. Several researches have revealed that the utilization of CNT in nanocomposite polymeric ink for 3D printing provides high-performance printing, along with high precision and structural complexity. Furthermore,

the growing number of research on CNTs and 3D printing has influenced 3D printing solutions providers to launch novel technology to cater to the demands of the aerospace, medical, electronics, and defense sectors.

### Asia Pacific Carbon Nanotubes Market Overview

The carbon nanotubes market in Asia Pacific is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. Asia Pacific has emerged as a major market for carbon nanotubes due to the growing demand for high-performance materials in various industries such as aerospace, automotive, electronics, and energy. The region has become a major hub for carbon nanotubes production, with several leading manufacturers operating in countries such as China, Japan, and South Korea. Moreover, China is one of the largest markets for carbon nanotubes in Asia Pacific, and the country reports significant investments in research and development and increasing adoption of carbon nanotubes in various applications. Several Chinese companies such as Shenzhen Nanotech Port Co. Ltd., Chengdu Organic Chemicals Co. Ltd., and Suzhou NanoGrid Technology Co. Ltd. are involved in the production and commercialization of carbon nanotubes.

Japan is another key market for carbon nanotubes in Asia Pacific and has several companies such as Showa Denko KK, Mitsui & Co. Ltd., and Nikkiso Co. Ltd. engaged in the production and supply of carbon nanotubes for various applications.

### Asia Pacific Carbon Nanotubes Market Revenue and Forecast to 2028 (US\$ Million)

#### Asia Pacific Carbon Nanotubes Market Segmentation

The Asia Pacific carbon nanotubes market is segmented into type, application, and country.

Based on type, the Asia Pacific carbon nanotubes market is bifurcated into multi-walled carbon nanotubes, and single-walled carbon nanotubes. The multi-walled carbon nanotubes segment registered the largest market share in Asia Pacific carbon nanotubes market in 2022.

Based on application, the Asia Pacific carbon nanotubes market is segmented into electronics and semiconductors, energy storage, structural composites, aerospace and defense, medical, and others. The structural composites segment held a larger market share in 2022.

Based on country, the Asia Pacific carbon nanotubes market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. China dominated the market share in Asia Pacific carbon nanotubes market in 2022.

Nanoshel LLC; Kumho Petrochemical Co Ltd; Klean Industries Inc; LG Chem Ltd; Nanocyl SA; Arkema SA; Tokyo Chemical Industries Co Ltd; and Cobot Corp are the leading companies operating in the carbon nanotubes market in the region

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