

Global Semiconductor CVD Equipment Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Semiconductor CVD Equipment market size was valued at USD 9571.3 million in 2023 and is forecast to a readjusted size of USD 13360 million by 2030 with a CAGR of 4.9% during review period.

Chemical vapor deposition (CVD) is a chemical process used to produce high quality, high-performance, solid materials. The process is often used in the semiconductor industry to produce thin films. In typical CVD, the wafer (substrate) is exposed to one or more volatile precursors, which react and/or decompose on the substrate surface to produce the desired deposit. Frequently, volatile by-products are also produced, which are removed by gas flow through the reaction chamber.

Microfabrication processes widely use CVD to deposit materials in various forms, including: monocrystalline, polycrystalline, amorphous, and epitaxial. These materials include: silicon (SiO₂, germanium, carbide, nitride, oxynitride), carbon (fiber, nanofibers, nanotubes, diamond and graphene), fluorocarbons, filaments, tungsten, titanium nitride and various high-k dielectrics.

The major players in global Semiconductor CVD Equipment market include Applied materials, Lam Research, Tokyo Electron, etc. The top three players occupy about 73% shares of the global market. China is the largest market of Semiconductor CVD Equipment accounting for about 28%, followed by South Korea and China Taiwan. In terms of Type, PECVD is the largest segment, with a share about 51%. In terms of Application, the largest segment is IDM Companies, followed by Wafer Foundry.

The Global Info Research report includes an overview of the development of the Semiconductor CVD Equipment industry chain, the market status of Wafer Foundry (PECVD, MOCVD), IDM Companies (PECVD, MOCVD), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Semiconductor CVD Equipment.

Regionally, the report analyzes the Semiconductor CVD Equipment markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Semiconductor CVD Equipment market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Semiconductor CVD Equipment market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Semiconductor CVD Equipment industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., PECVD, MOCVD).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Semiconductor CVD Equipment market.

Regional Analysis: The report involves examining the Semiconductor CVD Equipment market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Semiconductor CVD Equipment market. This may include estimating market growth rates, predicting market demand, and identifying

emerging trends.

The report also involves a more granular approach to Semiconductor CVD Equipment:

Company Analysis: Report covers individual Semiconductor CVD Equipment manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Semiconductor CVD Equipment. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Wafer Foundry, IDM Companies).

Technology Analysis: Report covers specific technologies relevant to Semiconductor CVD Equipment. It assesses the current state, advancements, and potential future developments in Semiconductor CVD Equipment areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Semiconductor CVD Equipment market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Semiconductor CVD Equipment market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

PECVD

MOCVD

APCVD

LPCVD

Market segment by Application

Wafer Foundry

IDM Companies

Major players covered

Applied Materials

Lam Research

Tokyo Electron

ASM International

Kokusai Electric

Wonik IPS

Eugene Technology

Jusung Engineering

TES

SPTS Technologies (KLA)

Veeco

CVD Equipment

Piotech

Naura

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 Semiconductor CVD Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semiconductor CVD Equipment, with price, sales, revenue and global market share of Semiconductor CVD Equipment from 2019 to 2024.

Chapter 3, the Semiconductor CVD Equipment competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Semiconductor CVD Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Semiconductor CVD Equipment market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Semiconductor CVD Equipment.

Chapter 14 and 15, to describe Semiconductor CVD Equipment sales channel, distributors, customers, research findings and conclusion.

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