

Global Semiconductor CVD Epitaxy Equipment Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Semiconductor CVD Epitaxy Equipment market size was valued at US\$ 1755 million in 2024 and is forecast to a readjusted size of USD 2735 million by 2031 with a CAGR of 6.6% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Semiconductor Chemical Vapor Deposition (CVD) Epitaxy Equipment is essential for the growth of crystalline layers on semiconductor wafers. These tools are used to deposit thin films of materials with high precision for various semiconductor devices.

In order to adapt to the trend of increasing requirements for material thickness uniformity, interface quality and crystal defect density in advanced processes, future CVD systems will pay more attention to the precise control of process parameters such as temperature and gas flow.

In addition to traditional silicon-based materials, the application of emerging material systems such as III-V compound semiconductors (such as gallium arsenide GaAs), two-dimensional materials (such as graphene, boron nitride BN) and topological insulators will further promote the development of CVD technology.

This report is a detailed and comprehensive analysis for global Semiconductor CVD Epitaxy Equipment market. Both quantitative and qualitative analyses are presented by

manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Semiconductor CVD Epitaxy Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Semiconductor CVD Epitaxy Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Semiconductor CVD Epitaxy Equipment market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Semiconductor CVD Epitaxy Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Semiconductor CVD Epitaxy Equipment
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Semiconductor CVD Epitaxy Equipment market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include AIXTRON, Advanced Micro, Veeco, LPE (Italy), TAIYO NIPPON SANSO, ASMI, Applied Material, NuFlare, Tokyo Electron, CETC, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Semiconductor CVD Epitaxy Equipment market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Atmospheric Pressure CVD (APCVD)

Low-Pressure CVD (LPCVD)

Ultra-High Vacuum CVD (UHVCVD)

Plasma-Enhanced CVD (PECVD)

Metal-Organic CVD (MOCVD)

Hydride Vapor Phase Epitaxy (HVPE)

Market segment by Application

SiC-based Devices

GaAs-based Devices

GaN-based Devices

InP-based Devices

Others

Major players covered

AIXTRON

Advanced Micro

Veeco

LPE (Italy)

TAIYO NIPPON SANSO

ASMI

Applied Material

NuFlare

Tokyo Electron

CETC

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

Chapter 2, to profile the top manufacturers of Semiconductor CVD Epitaxy Equipment, with price, sales quantity, revenue, and global market share of Semiconductor CVD Epitaxy Equipment from 2020 to 2025.

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

Chapter 4, the Semiconductor CVD Epitaxy Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Semiconductor CVD Epitaxy Equipment market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Epitaxy Equipment.

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

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