

Global PCVD (Plasma Chemical Vapor Deposition) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PCVD (Plasma Chemical Vapor Deposition) market size is expected to reach \$ 10879 million by 2032, rising at a market growth of 12.3% CAGR during the forecast period (2026-2032).

PCVD, or Plasma Chemical Vapor Deposition, is a class of thin-film deposition equipment and processes that uses RF or other plasma sources to activate precursor gases and form dielectric films, passivation films, hard masks, barrier layers, functional carbon films, and selected amorphous silicon films on wafers, glass, metals, ceramics, or three-dimensional parts at relatively low temperatures. Compared with thermal CVD, its core value lies in lowering thermal budget, improving compatibility with organic materials and heterogeneous structures, and enabling more flexible tradeoffs among film stress, refractive index, composition, coverage, and deposition rate. As a result, it is widely used in integrated circuit manufacturing, advanced packaging, 3D memory, power and compound semiconductors, MEMS, optoelectronics, RF devices, photovoltaic cells, and research or pilot lines. Official product pages show that mainstream delivery formats include single-wafer, cluster, batch, and specialized platforms designed for low-temperature and high-throughput scenarios. Common film families include SiO₂, SiN_x, SiON, SiCN, low-k oxides, a-Si, and extended solutions for industrial coatings such as DLC. The business model is centered on tool sales, supplemented by process packages, upgrades, maintenance, spare parts, and local service revenue.

The core logic of the PCVD industry has shifted from pure film formation capability to integrated platform competition built around low-temperature processing, low damage, high uniformity, and high throughput. Official product pages show that leading global suppliers no longer position PCVD as a conventional dielectric deposition tool alone.

Instead, they place it inside higher-value process chains such as advanced packaging, 3D memory, power devices, MEMS, RF, and optoelectronics. As chip structures become more three-dimensional, packaging moves further forward in system integration, and material stacks grow more complex, deposition tools are no longer judged only by deposition rate. They must also meet requirements for film stress control, defect control, edge profile, within-wafer and wafer-to-wafer consistency, and compatibility with downstream etch, bonding, passivation, and reliability processes. This means the center of value in PCVD is moving from standalone tool sales toward system-level competition in platform capability, process packages, and local service. For customers, what matters is not simply owning a PECVD tool, but being able to reliably obtain a manufacturable target film stack within a defined thermal budget and insert that film stack into an advanced production flow.

From the demand perspective, integrated circuits and advanced packaging remain the highest-value core markets for PCVD, but the growth base is clearly broadening. Suppliers such as KLA, Applied Materials, ASM, and NAURA continue to emphasize advanced packaging, TSVs, hybrid bonding, low-temperature dielectrics, and high-throughput 300 mm platforms on their official websites, showing that advanced semiconductor manufacturing still defines the industry's technology frontier. At the same time, companies such as Oxford Instruments, SAMCO, SENTECH, Denton Vacuum, and Syskey remain active in research, pilot production, MEMS, photonic devices, and specialty coating markets, demonstrating that PCVD is not limited to hyperscale wafer fabs and is continuing to penetrate a wider range of scenarios from basic research to specialty-volume manufacturing. Combined with JUSUNG's HJT PECVD positioning and the public product strategies of selected vendors serving large-area thin films and new-energy devices, the market is developing a dual structure in which advanced wafer manufacturing defines the technical ceiling, while research and energy-related applications expand the demand floor. This makes PCVD structurally more resilient than a single end-market equipment segment.

From a regional perspective, PCVD equipment production remains highly concentrated in the United States, Japan, South Korea, China, and a small number of European technology centers, while the center of consumption and investment is becoming even more concentrated in Asian wafer manufacturing and advanced packaging hubs. SEMI reported that global semiconductor manufacturing equipment sales reached \$135.1 billion in 2025, and worldwide 300 mm fab equipment spending is projected to rise to \$133 billion in 2026, indicating that capital spending remains on an upward cycle. Combined with capacity expansion driven by AI servers, HBM, advanced logic, and localized supply chain restructuring, PCVD, as a critical link in the deposition chain, is

positioned to benefit from continued demand for dielectric films, passivation films, bonding-related layers, and multi-material integration. Over the next several years, global leaders are likely to retain advantages in high-end platforms, critical film stacks, and qualification with major customers, while Chinese suppliers are well positioned to continue gaining share through local customer access, response speed, cost efficiency, and faster iteration. As a result, competition in this segment is unlikely to become purely price-driven and is more likely to evolve into a long-cycle growth market shaped by both high-end process breakthroughs and deeper regional ecosystem buildout.

This report studies the global PCVD (Plasma Chemical Vapor Deposition) demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for PCVD (Plasma Chemical Vapor Deposition), 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 PCVD (Plasma Chemical Vapor Deposition) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PCVD (Plasma Chemical Vapor Deposition) total market, 2021-2032, (USD Million)

Global PCVD (Plasma Chemical Vapor Deposition) total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: PCVD (Plasma Chemical Vapor Deposition) total market, key domestic companies, and share, (USD Million)

Global PCVD (Plasma Chemical Vapor Deposition) revenue by player, revenue and market share 2021-2026, (USD Million)

Global PCVD (Plasma Chemical Vapor Deposition) total market by Type, CAGR, 2021-2032, (USD Million)

Global PCVD (Plasma Chemical Vapor Deposition) total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global PCVD (Plasma Chemical Vapor Deposition) market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Applied Materials, Inc., Lam Research Corporation, ASM International N.V., Oxford Instruments plc, KLA Corporation, SENTECH Instruments GmbH, Plasma-Therm LLC, Denton Vacuum LLC,

CVD Equipment Corporation, ACM Research, Inc., 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 PCVD (Plasma Chemical Vapor Deposition) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 PCVD (Plasma Chemical Vapor Deposition) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PCVD (Plasma Chemical Vapor Deposition) Market, Segmentation by Type:

RF Plasma

DC Plasma

Global PCVD (Plasma Chemical Vapor Deposition) Market, Segmentation by Processing Mode:

Single-Wafer

Batch Or Multi-Wafer

Cluster Or Inline

Global PCVD (Plasma Chemical Vapor Deposition) Market, Segmentation by Maximum Substrate Size:

Up To 200 mm

300 mm

Large Area Or Non-Wafer 3D Parts

Global PCVD (Plasma Chemical Vapor Deposition) Market, Segmentation by Application:

Integrated Circuits And Advanced Packaging

Power And Compound Semiconductors

MEMS Photonics And RF Devices

Photovoltaics And Large-Area Thin Films

Research And Pilot Production

Companies Profiled:

Applied Materials, Inc.

Lam Research Corporation

ASM International N.V.

Oxford Instruments plc

KLA Corporation

SENTECH Instruments GmbH

Plasma-Therm LLC

Denton Vacuum LLC

CVD Equipment Corporation

ACM Research, Inc.

ULVAC, Inc.

SAMCO Inc.

Sumitomo Precision Products Co., Ltd.

WONIK IPS Co., Ltd.

JUSUNG ENGINEERING Co., Ltd.

TES Co., Ltd.

NAURA Technology Group Co., Ltd.

Piotech Inc.

SKY Technology Development Co., Ltd. CAS

NOBODY Materials Science & Technology Co., Ltd.

Syskey Technology Co., Ltd.

Dah Young Vacuum Equipment Co., Ltd.

Key Questions Answered

1. How big is the global PCVD (Plasma Chemical Vapor Deposition) market?
2. What is the demand of the global PCVD (Plasma Chemical Vapor Deposition) market?
3. What is the year over year growth of the global PCVD (Plasma Chemical Vapor Deposition) market?
4. What is the total value of the global PCVD (Plasma Chemical Vapor Deposition) market?
5. Who are the Major Players in the global PCVD (Plasma Chemical Vapor Deposition) market?
6. What are the growth factors driving the market demand?

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