

# **Vapor Deposition Market by Technology (Chemical Vapor Deposition, Physical Vapor Deposition), by End-user Industry (Microelectronics, Cutting tools, Industrial & Energy, Medical, Decorative Coating) – Global Trends & Forecast to 2028**

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## **Abstracts**

The vapor deposition market is projected to grow from USD 42.6 billion in 2023 to USD 66.1 billion by 2028, recording a CAGR of 9.2% during the forecast period.

Technological advancements have made deposition processes more efficient and versatile, driving increased adoption. Industries like semiconductors, optics, and medical devices heavily rely on vapor deposition, with growing demand in these sectors. Additionally, the energy industry sees applications in thin-film solar cells and energy-efficient coatings. Vapor deposition is also crucial in aerospace, automotive, and nanotechnology. As environmental concerns rise, its eco-friendly nature may further boost its usage. Customization capabilities and the ability to cater to niche markets contribute to its growth. However, market projections can vary based on economic conditions and emerging trends, so up-to-date industry reports are essential for accurate insights.

Chemical Vapor Deposition segment is likely to drive the global market during the forecast period

The global Chemical Vapor Deposition (CVD) market is set to drive overall industry growth in the forecast period. This is due to its widespread application in key sectors such as semiconductors, solar energy, aerospace, and biotechnology. The demand for advanced materials, particularly in the semiconductor industry, is pushing the need for CVD processes. It's also crucial for producing thin-film solar cells, enhancing medical devices, and creating nanoscale materials. Continuous technological advancements

and the trend towards miniaturization further contribute to its expanding adoption globally. As industries seek more efficient and specialized coatings, CVD's role is expected to be pivotal in shaping the market's trajectory.

Energy & Power segment is expected to account for the 2nd largest market share during the forecast period

The maritime industry is under increasing pressure to reduce emissions and comply with stricter environmental regulations. LNG is considered a cleaner fuel compared to traditional marine fuels like heavy fuel oil and diesel. It offers significant emissions reductions in terms of sulfur oxides (SO<sub>x</sub>), nitrogen oxides (NO<sub>x</sub>), particulate matter, and greenhouse gases. This has led to a growing interest in LNG as a fuel for ships, particularly in emission-controlled areas such as coastal regions and ports. Additionally, LNG offers better energy efficiency compared to conventional marine fuels. LNG has a higher energy content per unit of weight, allowing ships to achieve longer voyage distances with the same fuel capacity. This becomes particularly advantageous for vessels involved in long-haul transportation, such as ferries, offshore support vessels, and even some bulk carriers.

Europe accounts for the third largest market during the forecast period

The semiconductor industry in Europe is expected to witness high growth in the next five years due to the increasing number of fabrication plants in the region. Moreover, Europe hosts many major semiconductor manufacturers such as STMicroelectronics (Switzerland), Infineon Technologies AG (Germany), and X-FAB Silicon Foundries (Germany), among others. The presence of such established semiconductor manufacturers and the increasing number of fabrication facilities are expected to create growth opportunities for market players offering vapor deposition equipment. Furthermore, government initiatives are a major factor driving the market growth in Europe. For instance, in February 2022, the European Commission outlined a Euro 43 billion plan in accordance with European Union's (EU's) aim to double its market share in semiconductor production by 2030. Such favorable initiatives to strengthen the semiconductor industry in this region are expected to increase the adoption of vapor deposition for various semiconductor applications.

In-depth interviews were conducted with Chief Executive Officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations operating in the vapor deposition marketplace.

Extensive primary interviews were conducted to determine and verify the market size for several segments and sub-segments and information gathered through secondary research.

The break-up of primary interviews is given below:

By Company Type - Tier 1 – 30%, Tier 2 – 50%, and Tier 3 – 20%

By Designation – C level Executives – 40%, Director level – 20%, and Others\* – 40%

By Region – North America – 20%, Europe – 20%, Asia Pacific – 40%, Middle East & Africa – 5%, Latin America – 15%.

Notes: \*Others include sales, marketing, and product managers.

Notes: Tier 1: \$\$\$\$USD 5 Billion; Tier 2: USD 1 Billion– USD 5 Billion; and Tier 3: \$\$\$USD 1 Billion

**Companies Covered:** The companies profiled in this market research report include Applied Materials, Inc. (US), Tokyo Electron Limited. (Japan), Lam Research Corporation (US), OC Oerlikon Management AG (Switzerland), and IHI Corporation (Japan) ULVAC, Inc. (Japan), Veeco Instruments Inc. (US), and Voestalpine AG (Austria) and ASM International N.V. (Netherlands), among others.

**Research Coverage:**

The market study covers the vapor deposition market across various segments. It aims at estimating the market size and the growth potential of this market across different segments based on technology, end-use industry and region. The study also includes an in-depth competitive analysis of key players in the market, their company profiles, key observations related to their products and business offerings, recent developments undertaken by them, and key growth strategies adopted by them to improve their position in the vapor deposition market.

**Key Benefits of Buying the Report**

The report is expected to help the market leaders/new entrants in this market share the

closest approximations of the revenue numbers of the overall vapor deposition Market and its segments and sub-segments. This report is projected to help stakeholders understand the competitive landscape of the market, gain insights to improve the position of their businesses, and plan suitable go-to-market strategies. The report also aims at helping stakeholders understand the pulse of the market and provides them with information on the key market drivers, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Growth in the semiconductor industry, Growing solar industry to propel the demand for high-performance films, Increasing demand for medical devices and equipment), restraints (High capital investment, Film contamination) opportunities (Innovation in technology provide lucrative opportunity across various industrial applications, Increasing demand from end-user industries in the developing nations), and challenges (Lack of qualified workforce for operation, Technical difficulties and process complexity) influencing the growth of the vapor deposition market

Product Development/Innovation: Detailed insights on upcoming technologies, research &

development activities, and new product & service launches in the vapor deposition market

Market Development: Comprehensive information about lucrative markets – the report analyses

the vapor deposition market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped

geographies, recent developments, and investments in the vapor deposition market

Competitive Assessment: In-depth assessment of market shares, growth strategies and service

offerings of leading players like Applied Materials, Inc. (US), Tokyo Electron Limited. (Japan), Lam Research Corporation (US), OC Oerlikon Management AG (Switzerland), and IHI Corporation (Japan) ULVAC, Inc. (Japan), Veeco Instruments Inc. (US), and Voestalpine AG (Austria) and ASM International N.V. (Netherlands) among others in the vapor deposition market

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\*Details on Business overview, Products/Solutions/Services offered, Recent Developments, MNM view, Right to win, Strategic choices, Weaknesses and competitive threats might not be captured in case of unlisted companies.

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## About

The Vapor Deposition Market is segmented by type, by application, and by geography. The market size of each region such as North America, Europe, Asia-Pacific, and Rest of the World (RoW) is projected in the report. The key countries such as U.S., China, Germany and Japan are covered and their market size is forecasted along with their growth rates.

Some the Prominent players in the global "Vapor Deposition Market" are:

Applied Materials Inc. (U.S.)

Adeka Corporation (Japan)

Plasma Therm (U.S.)

Aixtron SE ( Germany)

Tokyo Electron Limited (Japan)

IHI Group (Japan)

Kurt J Leskar and Veeco Instruments (U.S.).

LPCVD is the biggest technology segment in the CVD equipment, holding more than 35.6% share of the CVD equipment market in 2014 and is projected to grow with a CAGR of 6.0% 2014 and 2019 to reach \$6,005.6 million by 2019. However in the PVD equipment market Cathodic arc deposition technology emerged as the biggest segment accounting for nearly 60.1% of the PVD equipment market share in 2014 and is projected to grow with a CAGR of 6.3% between 2014 and 2019.

The CVD and PVD market is segmented into six major end-use industry segments; they are microelectronics, cutting tools, industrial & energy, medical devices & equipment, and others. The demand for microelectronics segment accounted for the largest share

in 2014, at \$4,802.3 million and \$6,681.5 million respectively for CVD and PVD equipment market; and it is projected to reach \$ 7,285.4 and \$ 6973.4 million by 2019 respectively for CVD and PVD equipment market. Asia-Pacific is estimated to be the largest region of microelectronics segment in 2014, followed by the North America.

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