

Global 12 Inch PVD System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G420DBD82BE6EN.html>

Date: April 2026

Pages: 101

Price: US\$ 3,480.00 (Single User License)

ID: G420DBD82BE6EN

Abstracts

According to our (Global Info Research) latest study, the global 12 Inch PVD System market size was valued at US\$ 3925 million in 2025 and is forecast to a readjusted size of US\$ 6246 million by 2032 with a CAGR of 6.8% during review period.

In 2025, global production capacity for 12-inch PVD systems is approximately 1,250 units, with actual production reaching around 1,090 units. The average global market price is about US\$ 3.5 million per unit, and gross margins in this segment generally range from 38% to 48%. A 12-inch Physical Vapor Deposition (PVD) System is a semiconductor manufacturing tool designed to deposit metal and compound thin films on 300 mm silicon wafers through physical processes such as magnetron sputtering or evaporation. Compared with smaller wafer-size equipment, 12-inch PVD systems emphasize high throughput, excellent film uniformity, and tight process repeatability to meet the requirements of advanced semiconductor mass production. These systems are widely used in front-end-of-line (FEOL) and back-end-of-line (BEOL) processes, including barrier and liner layers, seed layers, interconnect metallization, and hard mask deposition. As the industry continues to migrate toward larger wafer sizes and higher integration levels, 12-inch PVD systems have become standard equipment in advanced logic, memory, and power semiconductor fabs.

The upstream of the 12-inch PVD system industry chain includes high-purity metal targets, process gases (argon, nitrogen, etc.), precision vacuum chambers, magnetron sputtering cathodes, RF/DC power supplies, wafer handling and transfer modules, advanced sensors, and process control software. The midstream focuses on equipment design and manufacturing, covering chamber architecture optimization, multi-cathode integration, film uniformity tuning across 300 mm wafers, system integration, and

reliability and productivity testing, which represent the core technological and value-added segments. The downstream mainly serves advanced semiconductor fabs, including logic foundries, memory manufacturers, and IDMs. The industry chain further extends to equipment installation, process qualification, productivity enhancement, preventive maintenance, spare parts supply, and long-term service agreements, with service revenue becoming an increasingly important component.

The 12-inch PVD system market is fundamentally driven by the continued expansion of advanced semiconductor manufacturing capacity. As leading-edge logic and memory production increasingly concentrates on 300 mm wafers, demand for high-throughput and highly stable PVD platforms remains strong. Compared with smaller wafer tools, 12-inch systems offer superior economies of scale, making them essential for cost control in advanced fabs.

Technological evolution further supports market growth. Advanced interconnect schemes, complex multilayer stacks, and tighter design rules place higher requirements on film uniformity, contamination control, and process repeatability, prompting continuous upgrades of 12-inch PVD platforms. Although capital expenditure cycles can introduce short-term volatility, long equipment lifecycles, high switching costs, and strong customer stickiness contribute to relatively stable margins. With ongoing investments in advanced logic, memory, and power semiconductor fabs worldwide, the 12-inch PVD system market is expected to maintain steady, above-average growth over the medium to long term.

This report is a detailed and comprehensive analysis for global 12 Inch PVD System 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 12 Inch PVD System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global 12 Inch PVD System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K

US\$/Unit), 2021-2032

Global 12 Inch PVD System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global 12 Inch PVD System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

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 12 Inch PVD System
- 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 12 Inch PVD System 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 Applied Materials, Lam Research, Tokyo Electron, ULVAC, Canon Anelva, Hitachi High-Tech, Kokusai Electric, Evatec, NAURA, Piotech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

12 Inch PVD System market is split by Type and by Application. For the period 2021-2032, 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

Single-chamber

Multi-chamber

Market segment by Deposition Technology

Magnetron Sputtering

Evaporation-based

Market segment by Application

Logic Device

Memory Device

Power Device

Others

Major players covered

Applied Materials

Lam Research

Tokyo Electron

ULVAC

Canon Anelva

Hitachi High-Tech

Kokusai Electric

Evatec

NAURA

Piotech

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 12 Inch PVD System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 12 Inch PVD System, with price, sales quantity, revenue, and global market share of 12 Inch PVD System from 2021 to 2026.

Chapter 3, the 12 Inch PVD System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 12 Inch PVD System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and 12 Inch PVD System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 12 Inch PVD System.

Chapter 14 and 15, to describe 12 Inch PVD System sales channel, distributors, customers, research findings and conclusion.

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