

Global Thermal ALD System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Thermal ALD System market size was valued at US\$ 2572 million in 2025 and is forecast to a readjusted size of US\$ 4980 million by 2032 with a CAGR of 9.9% during review period.

In 2025, global production capacity for thermal ALD systems is approximately 1,850 units, with actual production reaching around 1,562 units. The average global selling price is about US\$ 1.6 million per unit, while gross margins generally range from 45% to 55%, reflecting strong process differentiation and high customer switching costs. A Thermal Atomic Layer Deposition (ALD) System is a semiconductor thin-film deposition tool that utilizes self-limiting surface chemical reactions to deposit ultra-thin films with atomic-scale thickness control. Unlike plasma-enhanced ALD, thermal ALD relies solely on thermal energy to drive surface reactions between sequentially pulsed precursors. This approach enables excellent film uniformity, precise thickness control, and outstanding conformality, particularly in high-aspect-ratio structures. Thermal ALD systems are widely used for depositing high-k dielectrics, metal oxides, nitrides, and barrier layers in advanced logic, memory, power devices, and 3D semiconductor architectures.

The upstream of the thermal ALD system industry chain includes high-purity chemical precursors, carrier and purge gases, precision gas delivery modules, vacuum systems, temperature control units, and chamber materials with high chemical stability. The midstream focuses on equipment design and manufacturing, including reactor architecture, precursor dosing accuracy, thermal uniformity control, contamination management, and process automation—representing the core value and technological differentiation. Downstream customers consist of logic foundries, memory

manufacturers (DRAM and NAND), power semiconductor producers, and advanced packaging fabs. The industry chain further extends to process development support, consumables supply, chamber maintenance, and long-term service contracts.

The thermal ALD system market continues to expand as device scaling and 3D architectures drive demand for atomic-level process control. In advanced logic and memory manufacturing, increasingly complex structures such as FinFETs, GAA transistors, and 3D NAND require ultra-thin, highly conformal films that thermal ALD is uniquely suited to deliver.

Compared with plasma-enhanced approaches, thermal ALD offers superior film quality and lower damage, making it especially attractive for sensitive interfaces and critical dielectric layers. In addition, the growing adoption of high-k materials and advanced barrier layers increases process steps per wafer, directly supporting equipment demand. Although cycle times are relatively longer, ongoing improvements in batch processing and productivity optimization are mitigating throughput limitations. Supported by sustained investment in advanced semiconductor nodes and power devices, the thermal ALD market is expected to maintain steady, high-quality growth over the medium to long term.

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

Global Thermal ALD 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 Thermal ALD 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 Thermal ALD 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 Thermal ALD 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 Thermal ALD 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 ASM International, Applied Materials, Tokyo Electron, Lam Research, Kokusai Electric, Beneq, Picosun, NAURA, Piotech, etc.

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

Market Segmentation

Thermal ALD 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

8-inch

12-inch

Others

Market segment by Process

Gate Dielectric Layer

Dielectric Layer

Passivation Layer

Market segment by Application

Integrated Circuits

Advanced Packaging

Scientific Research

Major players covered

ASM International

Applied Materials

Tokyo Electron

Lam Research

Kokusai Electric

Beneq

Picosun

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 Thermal ALD System product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Thermal ALD 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 Thermal ALD 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 Thermal ALD System.

Chapter 14 and 15, to describe Thermal ALD System sales channel, distributors, customers, research findings and conclusion.

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