

Global PEALD System Market Growth 2026-2032

<https://marketpublishers.com/r/GFD40D3DD441EN.html>

Date: May 2026

Pages: 124

Price: US\$ 3,660.00 (Single User License)

ID: GFD40D3DD441EN

Abstracts

The global PEALD System market size is predicted to grow from US\$ 1272 million in 2025 to US\$ 2368 million in 2032; it is expected to grow at a CAGR of 9.3% from 2026 to 2032.

In 2025, global PEALD system production capacity is approximately 700 units, with actual output reaching around 620 units. The average global selling price is about US\$ 2.1 million per unit, and gross margins typically range from 48% to 58%, supported by strong demand from advanced logic and memory manufacturing. A Plasma-Enhanced Atomic Layer Deposition (PEALD) System is a semiconductor thin-film deposition tool that integrates self-limiting ALD surface reactions with plasma excitation to enhance reaction kinetics. By introducing plasma species such as oxygen, nitrogen, or hydrogen radicals, PEALD enables high-quality film deposition at significantly lower temperatures than thermal ALD. This capability makes PEALD especially suitable for temperature-sensitive substrates, complex 3D structures, and advanced device architectures. PEALD systems are widely used for depositing metal oxides, nitrides, and functional thin films in advanced logic ICs, DRAM, 3D NAND, power semiconductors, and advanced packaging applications.

Upstream components of the PEALD industry chain include high-purity chemical precursors, plasma generation systems (RF power supplies, electrodes), vacuum and exhaust systems, gas delivery modules, chamber materials, and advanced control electronics. The midstream focuses on equipment design and manufacturing, encompassing plasma uniformity control, low-damage process optimization, precursor?plasma interaction engineering, contamination management, and system integration?representing the highest technical value segment. Downstream customers mainly include advanced logic foundries, memory manufacturers (DRAM and NAND), power device fabs, and specialty semiconductor producers, with services extending to process development, consumables supply, plasma source maintenance, and long-term

service agreements.

The PEALD system market is experiencing strong growth as semiconductor manufacturing increasingly demands low-temperature, high-quality thin-film deposition. Advanced device architectures such as FinFETs, GAA transistors, and 3D NAND impose strict requirements on conformality, film density, and thermal budget, positioning PEALD as a preferred deposition solution.

Compared with thermal ALD, PEALD offers faster reaction kinetics and broader material compatibility, enabling denser films with improved electrical performance at reduced temperatures. These advantages are particularly valuable in back-end-of-line processes and advanced packaging. Although plasma-induced damage remains a key integration challenge, continuous improvements in plasma control, chamber design, and process tuning are significantly mitigating these risks. Supported by sustained capital expenditure in advanced logic, memory, and power semiconductor fabs, the PEALD system market is expected to maintain high growth and increasing strategic importance.

LP Information, Inc. (LPI) ' newest research report, the "PEALD System Industry Forecast" looks at past sales and reviews total world PEALD System sales in 2025, providing a comprehensive analysis by region and market sector of projected PEALD System sales for 2026 through 2032. With PEALD System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PEALD System industry.

This Insight Report provides a comprehensive analysis of the global PEALD System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on PEALD System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PEALD System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PEALD System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global PEALD System.

This report presents a comprehensive overview, market shares, and growth opportunities of PEALD System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

150mm

200mm

300mm

Others

Segmentation by Reactor Type:

Single-wafer PEALD System

Batch PEALD System

Segmentation by Application:

Integrated Circuits

Advanced Packaging

Scientific Research

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Applied Materials

ASM International

Lam Research

Tokyo Electron

Kokusai Electric

Oxford Instruments

Veeco Instruments

Beneq

Picosun

Plasma-Therm

NAURA

Piotech

AMEC

Key Questions Addressed in this Report

What is the 10-year outlook for the global PEALD System market?

What factors are driving PEALD System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do PEALD System market opportunities vary by end market size?

How does PEALD System break out by Type, by Application?

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