

Lithography Equipment Market to Expand at 9.2% CAGR, Reaching USD 55.13 Billion by 2032

Lithography Equipment Market is set to reach USD 55.13B by 2032, growing at a 9.2% CAGR. Discover insights on EUV adoption, regional leaders, and key players.

PUNE, MAHARASHTRA, INDIA, October 16, 2025 /EINPresswire.com/ -- Introduction of Lithography Equipment Market

The [global lithography equipment market](#) is on a robust growth trajectory, projected to expand at a

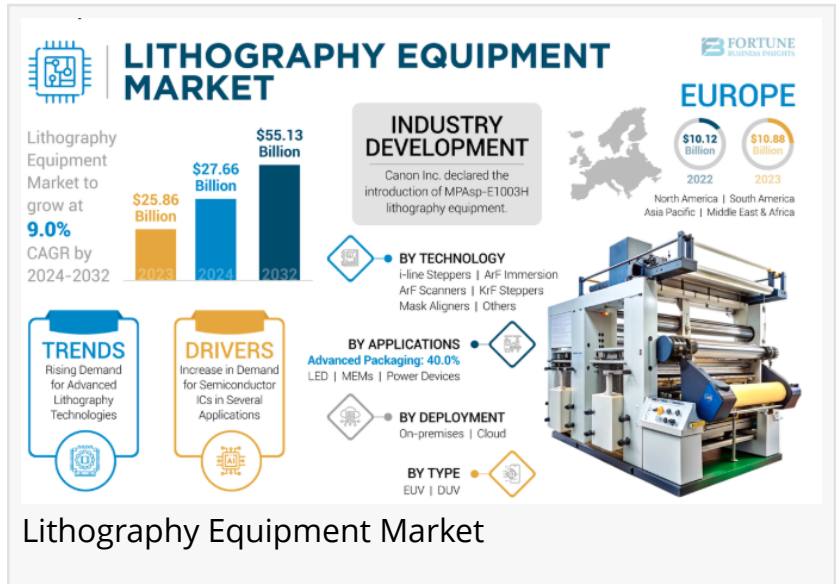
compound annual growth rate (CAGR)

of 9.2% through 2032. As a cornerstone of the semiconductor industry, this market provides the critical machinery for transferring intricate circuit patterns onto semiconductor wafers. This process is indispensable for advancing computing power and enabling miniaturization across countless applications, from mobile devices and AI to data centers and automotive electronics.

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Fueled by the relentless demand for smaller, more powerful semiconductors, the lithography equipment market is advancing with innovations in EUV, AI-driven design, and advanced packaging technologies.”

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Lithography Equipment Market Snapshot

Here are the key highlights shaping the industry landscape:

- Market Size: Valued at USD 27.66 billion in 2024.
- Market Share: Europe dominated the global market with a 42.55% share in 2024.

- CAGR: 9.2% (Forecast period 2025–2032).
- Forecast Value: Projected to reach USD 55.13 billion by 2032.

- Regional Insights: Europe holds the largest market share, while Asia Pacific is expected to exhibit the highest CAGR.
- Key Players: ASML Holding NV, Nikon Corporation, Canon, Inc., EV Group, Veeco Instruments Inc., and SUSS MicroTec SE.
- Critical Trends: Rising adoption of EUV technology, growth in advanced packaging, and the impact of Generative AI on design optimization.

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Lithography Equipment Market Size

The lithography equipment market size was valued at USD 27.66 billion in 2024 and is projected to grow to USD 29.76 billion in 2025. The market is forecasted to reach USD 55.13 billion by 2032. This substantial growth is fueled by relentless global demand for semiconductor ICs across a spectrum of applications. As industries require increasingly smaller and more powerful chips, the demand for advanced lithography equipment capable of producing finer feature sizes and higher throughput is escalating, solidifying the market's upward trajectory.

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Lithography Equipment Market Share

Europe dominated the lithography equipment market, commanding 42.55% of the global share in 2024. This leadership is largely attributed to a strong R&D ecosystem and the presence of industry giant ASML. By application, the advanced packaging segment holds the largest share, driven by the need for enhanced performance and functionality through techniques like 2.5D and 3D stacking. Europe is projected to maintain its leading position throughout the forecast period, underscoring its critical role in the semiconductor supply chain.

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Lithography Equipment Market Growth

Propelled by a strong 9.2% CAGR, the lithography equipment market's growth stems from continuous innovation and technological advancements. Key drivers include rising demand for advanced technologies like Extreme Ultraviolet (EUV) and Deep Ultraviolet (DUV) immersion to facilitate smaller feature sizes on ICs. The expansion is further supported by the increasing adoption of advanced packaging platforms like 3D ICs and Fan-Out Wafer Level Packaging (FO WLP), meeting the demand from end-use industries for more complex and condensed electronics.

Competitive Landscape

The competitive landscape is led by dominant players like ASML Holding NV, Nikon Corporation, and Canon, Inc., who shape the industry through continuous R&D and strategic initiatives. Companies are focused on expanding their global footprint by forming strategic partnerships, acquiring specialized firms (e.g., Veeco Instruments' acquisition of Epiluvac AB), and launching innovative products. These strategies aim to meet the complex demands of next-generation semiconductor manufacturing and maintain a competitive edge.

Market Dynamics

- **Drivers:** The primary driver is surging demand for semiconductor ICs in AI, automotive, and mobile applications. The adoption of advanced packaging and the industry-wide shift toward EUV technology are also accelerating market growth.
- **Restraints:** High R&D costs and the technological complexity of next-generation equipment act as major restraints, potentially slowing innovation cycles.
- **Opportunities:** Generative AI presents a key opportunity, optimizing lens and mask designs to enhance precision and efficiency. Growth in high-demand sectors like LED and power devices also opens new avenues.
- **Challenges:** The industry faces persistent challenges related to transitioning to new transistor nodes, including overcoming mask defects and ensuring process stability.

Segmentation

- **By Type:** The mature Deep Ultraviolet (DUV) segment led market share in 2024. However, the Extreme Ultraviolet (EUV) segment is poised for the highest CAGR, driven by demand for advanced microchips.
- **By Application:** The advanced packaging segment dominates the market due to its role in enhancing chip performance. The LED segment is projected to grow the fastest.
- **By Packaging Platform:** The 3D IC segment held the largest share in 2024. The Fan-Out Wafer Level Packaging (FO WLP) segment is anticipated to expand at the highest CAGR.

Regional Analysis

Europe, holding 42.55% of the market in 2024, is projected to maintain its lead, anchored by ASML's dominance and a strong R&D infrastructure. Asia Pacific is anticipated to witness the highest CAGR during the forecast period, driven by the massive production capacities of semiconductor foundries like TSMC and Samsung in Taiwan, South Korea, and China. North America is expected to exhibit steady growth, supported by numerous advanced fabrication facilities.

Key Industry Developments

- **June 2024:** ASML Holding N.V. and Imec launched a joint High NA EUV lithography lab to serve the leading-edge semiconductor ecosystem.
- **May 2024:** Canon Inc. introduced the MPAsp-E1003H lithography equipment designed for manufacturing advanced smartphone and dashboard displays.
- **December 2023:** EV Group launched its EVG NanoCleave layer system, featuring revolutionary technology for 3D integration.

- February 2023: Veeco Instruments Inc. acquired Epiluvac AB to strengthen its position in the high-growth Silicon Carbide (SiC) equipment market.

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Ashwin Arora

Fortune Business Insights™ Pvt. Ltd.

+1 833-909-2966

sales@fortunebusinessinsights.com

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