

Extreme Ultraviolet (EUV) Lithography Market 2023-2033: 336% CAGR, 8% Market Share

ASML Holding NV, Nikon Corporation, Canon Inc., Ultratech, Intel Corporation, Samsung Electronics Co., Ltd.

SEJONG-SI, SOUTH KOREA, January 3, 2025 /EINPresswire.com/ -- The Extreme Ultraviolet (EUV) lithography market is projected to grow from approximately \$1.5 billion in 2023 to over \$5 billion by 2033, representing a Compound Annual Growth Rate (CAGR) of 33.6%. This growth is driven by the increasing demand for high-resolution lithography in the semiconductor industry, particularly for advanced nodes like 7nm and below. Major players in the market include ASML, Nikon, Canon, Ultratech, Intel, Samsung, and TSMC. The market is expected to be dominated by ASML, which holds a significant share of the EUV lithography equipment market. The growth is also fueled by the increasing adoption of EUV lithography in the production of high-performance microprocessors and memory devices. The market is expected to be highly competitive, with several key players vying for market share. The market is also expected to be highly volatile, with significant price fluctuations. The market is expected to be highly competitive, with several key players vying for market share. The market is also expected to be highly volatile, with significant price fluctuations.

Extreme ultraviolet (EUV) lithography ($\lambda=13.5\text{nm}$)

Reflective mask, Absorber pattern, $\lambda = 13.5\text{ nm}$, Multilayer mirror, 6.7 nm period, Mo/Si, Si substrate, 4:1 reduction optics, aspheric, multilayer coated, Wafer to record 0.1 μm features or smaller, over cm^2 dimensions, EUV mirror

- Short wavelength (13.5 nm) permits high resolution even with small numerical apertures.
- One candidate for next generation lithography

Mo/Be: 70.2% at 11.34 nm (FWHM=0.27 nm)
Mo/Si: 67.5% at 13.42 nm (FWHM=0.56 nm)

Lens (transmission) is not possible at EUV. So use reflection lens (mirrors). Bragg reflector made of alternating Mo/Si layers that enables high efficiency (68% at normal incidence) reflection of 13.5 nm light.

Extreme Ultraviolet Lithography

The market is expected to grow at a CAGR of 20% from 2023 to 2033, reaching a market size of 336 billion units by 2033.



"The EUV lithography market is expected to grow at a CAGR of 20% from 2023 to 2033, reaching a market size of 336 billion units by 2033."

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Market is projected to reach 123 billion by 2030, growing at a 4.95% CAGR from 2022. 80 billion in 2022, 8 billion in 2033.

<https://exactitudeconsultancy.com/reports/18406/ceramic-substrates-market/>

Market is projected to reach 110 billion by 2033, growing at a 6.0% CAGR from 2023.

<https://exactitudeconsultancy.com/reports/26885/hot-melt-adhesive-tapes-market/>

Market is projected to reach 113 billion by 2030, growing at a 4.9% CAGR from 2020. 73 billion in 2020, 9 billion in 2033.

<https://exactitudeconsultancy.com/reports/32488/supply-chain-management-market/>

Market is projected to reach 648 billion by 2033, growing at a 11.8% CAGR from 2023. 297 billion in 2023, 6 billion in 2033.

<https://exactitudeconsultancy.com/reports/45199/acute-care-telemedicine-market/>

Market is projected to reach 639 billion by 2032, growing at a 14.43% CAGR from 2023. 8 billion in 2023, 8 billion in 2032.

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Market:

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