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Photolithography Equipment Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global photolithography equipment market size reached US$ 13.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US$ 23.0 Billion by 2028, exhibiting a growth rate (CAGR) of 8.8% during 2023-2028.

Photolithography refers to the process of transferring geometric patterns to a film and substrate in microfabrication. It relies on a single beam of ultraviolet (UV) light to etch a pattern into integrated circuits (ICs). As it assists in producing extremely small incisions while being highly efficient and cost-effective, it is widely used to produce nanites and microscopic computer systems and control the exact size and shape of a substrate. At present, there is a rise in the utilization of photolithography equipment in miniaturized electronic devices across the globe.

Photolithography Equipment Market Trends:
Technological advancements in the semiconductor industry represent one of the key factors driving the market. Moreover, there is a surge in the demand for 5G-enabled devices to improve connectivity solutions around the world. This, along with the expanding 5G infrastructure and data center facilities, is stimulating the growth of the market. In addition, there is an increase in the penetration of the internet of things (IoTs) on account of the escalating demand for connected devices, such as smart cars, smart meters, and machine-to-machine (M2M) communications. This, coupled with the rising investment in wafer fabrication equipment and materials, is offering lucrative growth opportunities to industry investors. Besides this, the growing usage of integrated circuits (ICs) in automobiles, medical devices, consumer electronics, military and defense equipment, aircraft, and smart appliances are positively influencing the market. Furthermore, key market players are focusing on increasing precision and production

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capacity while decreasing overall manufacturing and overhead costs. These players are also extensively investing in research and development (R&D) activities to improve the photolithography process, which is projected to augment their overall sales and profitability.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global photolithography equipment market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on process, wavelength, device wavelength, application and end use.

Breakup by Process:

Ultraviolet (UV)
Deep Ultraviolet (DUV)
Extreme Ultraviolet (EUV)

Breakup by Wavelength:

70 nm–1 nm
270 nm–170 nm
370 nm–270 nm

Breakup by Device Wavelength:

Laser Produced Plasmas
Excimer Lasers
Mercury Lamps

Breakup by Application:

Front-End
Back-End

Breakup by End Use:

IDMs
Foundries

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Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:
The competitive landscape of the industry has also been examined along with the profiles of the key players being ASML Holding N.V., Canon Inc., Eulitha AG, EV Group, Holmarc Opto-Mechatronics Ltd., microfab Service GmbH, Neutronix Quintel, Nikon Corporation, NuFlare Technology Inc. (Toshiba Electronic Devices & Storage Corporation), Orthogonal Inc., Osiris International GmbH and S-Cubed Inc.

Key Questions Answered in This Report:
How has the global photolithography equipment market performed so far and how will it perform in the coming years?
What has been the impact of COVID-19 on the global photolithography equipment market?

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What are the key regional markets?
What is the breakup of the market based on the process?
What is the breakup of the market based on the wavelength?
What is the breakup of the market based on the device wavelength?
What is the breakup of the market based on the application?
What is the breakup of the market based on the end use?
What are the various stages in the value chain of the industry?
What are the key driving factors and challenges in the industry?
What is the structure of the global photolithography equipment market and who are the key players?
What is the degree of competition in the industry?

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