

Photolithography Equipment Market Report by Process (Ultraviolet (UV), Deep Ultraviolet (DUV), Extreme Ultraviolet (EUV)), Wavelength (70 nm–1 nm, 270 nm–170 nm, 370 nm–270 nm), Device Wavelength (Laser Produced Plasmas, Excimer Lasers, Mercury Lamps), Application (Front-End, Back-End), End Use (IDMs, Foundries), and Region 2024-2032

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Abstracts

The global photolithography equipment market size reached US\$ 14.8 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 29.3 Billion by 2032, exhibiting a growth rate (CAGR) of 7.8% during 2024-2032.

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 (IoT) 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 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 2024-2032. 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

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?

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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