

# **Photolithography Equipment Market by Process (Ultraviolet, Deep Ultraviolet, and Extreme Ultraviolet), Application (Front-end and Back-end), and Light Source (Mercury Lamp, Fluorine Laser, Excimer Laser, and Others): Global Opportunity Analysis and Industry Forecast, 2020–2027**

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## **Abstracts**

The global photolithography equipment market was valued at \$8.04 billion in 2019 and is projected to reach \$11.64 billion by 2027, registering a CAGR of 4.7% from 2020 to 2027. Photolithography, also known as optical lithography, is a process used to create specific patterns on semiconductor wafers using a photosensitive material and an ultraviolet light exposure system by transferring pattern from masks to wafers. This process can fetch a pattern into an integrated circuit using a beam of ultraviolet light without any requirement of additional materials. Photolithography controls the exact size and shape of the substrate to be patterned, making the process highly efficient and cost-effective. In addition, it serves as an ideal method for patterning nanoscale features, especially in microelectronics industries.

Aeroponics, a growth mechanism of photolithography equipment, uses mist, mixed with vital nutrients, water, and oxygen, and directs it to the open roots of the plants for their growth. This growth mechanism is a closed-loop system that uses approximately 95% less water than field farming. This technique does not use pesticides in addition to zero harmful waste production in the environment. The controlled environment of aeroponics has the capability to produce approximately 70% more yield as compared to traditional agriculture.

The demand for photolithography equipment is expected to increase rapidly during the

forecast period, owing to high demand for miniaturized electronic devices, rapid growth in semiconductor industry, and increase in trend of Internet of Things (IoT). However, limitation of photolithography process for curved surfaces is anticipated to hamper the market growth. On the contrary, increase in investments to develop semiconductor fabrication facilities and upsurge in need for advanced consumer goods, which fuels the demand for more wafer production, are expected to provide lucrative growth opportunities for the photolithography equipment market players.

The global photolithography equipment market is segmented into process, application, light source, and region. By process, the market is categorized into ultraviolet, deep ultraviolet, and extreme ultraviolet. The applications covered in the study include front-end and back-end. Depending on light source, the market is segregated into mercury lamp, fluorine laser, excimer laser, and others. Region wise, it is analyzed across North America (U.S., Mexico, and Canada), Europe (UK, Germany, France, Russia, and rest of Europe), Asia-Pacific (China, Japan, South Korea, Taiwan, and rest of Asia-Pacific), and LAMEA (Latin America, and the Middle East, and Africa).

The key players operating in the market include ASML Holding N.V., Canon Inc., Nikon Corporation, S?SS MICROTEC SE, Holmarc Opto-Mechatronics (P) Ltd., Taiwan Semiconductor Manufacturing Company Limited (TSMC), KLA Corporation, S-Cubed Company, Osiris International GmbH, and Veeco Instruments Inc.

## **KEY MARKET SEGMENTS**

### **BY PROCESS**

Ultraviolet

Deep Ultraviolet

Extreme Ultraviolet

### **BY APPLICATION**

Front-end

Back-end

**BY LIGHT SOURCE**

Mercury Lamp

Fluorine Laser

Excimer Laser

Others

**BY REGION**

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Russia

Rest of Europe

Asia-Pacific

China

Japan

South Korea

Taiwan

Rest of Asia-Pacific

LAMEA

Latin America

Middle East and Africa

## **KEY PLAYERS**

ASML Holding N.V.

Canon Inc.

Nikon Corporation

S?SS MICROTEC SE

Holmarc Opto-Mechatronics (P) Ltd.

Taiwan Semiconductor Manufacturing Company Limited (TSMC)

KLA Corporation

S-Cubed Company

Osiris International GmbH

Veeco Instruments Inc.

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Competitive analysis and profiles of the major photolithography equipment industry

*Photolithography Equipment Market by Process (Ultraviolet, Deep Ultraviolet, and Extreme Ultraviolet), Applica...*

players, such as ASML Holding N.V., Canon Inc., Nikon Corporation, S?SS MICROTEC SE, Holmarc Opto-Mechatronics (P) Ltd., Taiwan Semiconductor Manufacturing Company Limited (TSMC), KLA Corporation, S-Cubed Company, Osiris International GmbH, and Veeco Instruments Inc. are provided in this report.

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