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Photolithography Equipment Market with COVID-19 impact by Type (EUV, DUV), Light Source (Mercury Lamps, Excimer Lasers, Fluorine Lasers, Laser-Produced Plasma), Wavelength, End User and Geography - Global Forecast to 2025

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Abstracts

The photolithography equipment market was valued at USD 11.6 billion in 2020 and is projected to reach USD 18.0 billion by 2025; it is expected to grow at a CAGR of 9.1% from 2020 to 2025. The key factors driving the growth of the photolithography equipment market include the advent of advanced semiconductor manufacturing technologies and the increased government support for carrying out these advancements. The key players in the market are focusing on research and development activities. They are launching new technologies to improve the photolithography process used for the manufacturing of semiconductor devices.

“DUV held the largest market share of photolithography market in 2020”

The DUV photolithography held the largest market share of photolithography equipment market and has been segmented into i-line, KrF, ArF, and ArFi. Among these, the ArFi segment accounted for the largest size of the DUV photolithography equipment market in 2019. Multiple patterning ArFi photolithography is expected to be a promising technology for addressing the requirements of tight leading-edge devices.

“IDM contributes to a significant share in photolithography equipment market by 2025”

Integrated device manufacturers such as Advanced Micro Devices (US), Broadcom Limited (US), Hisilicon Technologies (China), Qualcomm (US), Intel (US), MediaTek (Taiwan), NVIDIA (US), NXP Semiconductors (Netherland), Sony (Japan), and Xilinx

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(US) are focusing on the development and the commercialization of chips based on the low process technology nodes such as 7 nm, 5 nm, and 3 nm. The share of the integrated device manufacturers segment in the photolithography equipment market is smaller than that of the foundries segment. This is because dedicated foundries have stronger technical know-how and economies of scale than integrated device manufacturers. Moreover, several semiconductor IC manufacturers prefer foundries for contract manufacturing to concentrate on their core businesses, such as chip designing.

“North America holds the second largest market share of photolithography equipment market during forecast period”

Photolithography equipment are majorly used in wafer-level packaging, advanced packaging, LED, and MEMS applications. A number of policymakers expect increased development of semiconductor fabrication technologies in the US as they are vital for the economic and national security interests of the country. The US semiconductors industry dominates different stages of the global semiconductor supply chain, including chip designing and research and development activities. Moreover, the US is among the top exporters of semiconductor devices.

In-depth interviews were conducted with Chief Executive Officers (CEOs), managers, and executives from various key organizations operating in the photolithography equipment market.

Breakdown of profiles of primary participants:

By Company Type: Tier 1—55%, Tier 2—20%, and Tier 3—25%

By Designation: C-level Executives—40%, Managers—35%, and Others—25%

By Region: North America—45%, APAC—22%, Europe—33%

Companies profiled in this report are ASML (Netherlands), Canon (Japan), Nikon (Japan) and many others.

Research Coverage:

The report describes the photolithography equipment market and related developments

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in terms of type, wavelength, light source, end users and different regions. It aims at estimating the market size and future growth potential of this market across different segments. Furthermore, the report also includes an in-depth competitive analysis of the key players in the market along with their company profiles, recent developments, and key market strategies.

Reasons to Buy Report:

This report includes the market statistics pertaining to type, wave length, light source, end user, and geography.

Major drivers, restraints, opportunities, and challenges for the photolithography equipment market growth have been detailed in this report.

Illustrative segmentation, analysis, and forecast based on each segment have been provided to give an overall view of photolithography equipment market.

A detailed competitive landscape, including key players and in-depth analysis and revenues of these players—has been provided.

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