

Global Photomask Market Size study & Forecast, by Product (Reticle, Master Mask, and Others), by Mask Shop Type (Captive Mask and Merchant Mask), by Application (Optical Devices, Discrete Components, Displays, MEMS, and Others) and Regional Analysis, 2023-2030

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Abstracts

Global Photomask Market is valued at approximately USD 4.4 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 2.5% over the forecast period 2023-2030. Photomasks are image-transfer tools used in microlithography and integrated circuits. They consist of solid, transparent substrates with an opaque surface covering. As transistors become smaller and more advanced, photomasks are increasingly vital for accurately transferring patterns to silicon wafers. The Photomask Market is expanding because of factors such as rising demand for consumer electronics and an increase in demand for semiconductors.

The consumer electronics market is experiencing significant growth due to the critical role of semiconductors in modern electronics manufacturing. The rising demand for consumer devices such as smartphones, notebooks, and wearables further drive this market expansion. According to Statista in 2023, the global revenue in the consumer electronics market is expected to increase by USD 125.5 billion from 2023 to 2028, reaching an estimated revenue of USD 1.2 trillion in 2028. The semiconductor industry has experienced remarkable growth over the past few years, due to the emergence of technologies such as IoT, cloud computing, data analytics, and AI. According to Statista, global semiconductor sales reached USD 580.13 billion in 2022. The industry recorded a year-on-year growth rate of 4.4 % in the same year. In addition, technological advancements in photomask manufacturing and the rising demand for

advanced panel displays would create lucrative growth opportunities. However, the high cost associated with photomask manufacturing and the complexity of photomask fabrication stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Photomask Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market over the forecast period owing to the high concentration of semiconductor and electronics industries. The region's market growth is driven by the increased demand for advanced photomasks used in applications such as ICs, flat panel displays, and MEMS devices. Asia Pacific is the fastest growing region over the forecast period, owing to factors such as increasing demand and consumption of photomasks in the semiconductor industry and the growing adoption of advanced technologies such as 5G, artificial intelligence, and IoT contributes to the expansion of the Photomask Market in this region.

Major market player included in this report are:

Applied Materials, Inc.

SK-Electronics Co., Ltd.

Photronics, Inc.

Toppan Chunghwa Electronics Corporation

Infinite Graphics Incorporated

NIPPON FILCON CO., LTD.

HOYA Corporation

Lasertec Corporation

Taiwan Photomask Co., Ltd.

Shenzhen Qingyi Photomask Limited

Recent Developments in the Market:

In September 2022, The goal of the partnership between EV Group (EVG) and Toppan Photomask Co. Ltd. Ltd. is to advance nanoimprint lithography as a high-volume manufacturing technology for the photonics industry. Through this partnership, we hope to make NIL the industry standard for photonics manufacturing and hasten its adoption in HVM for a range of uses, such as medical imaging systems, smartphone and car sensors, and augmented/mixed/virtual reality headsets.

Global Photomask Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Product, Mask Shop Type, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Product:

Reticle

Master Mask

Others

By Mask Shop Type:

Captive Mask

Merchant Mask

By Application:

Optical Devices

Discrete Components

Displays

MEMS

Others

By Region:

North America

U.S.
Canada

Europe
UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC

Latin America
Brazil
Mexico

Middle East & Africa
Saudi Arabia
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