

Global Photomask for Lithography Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Photomask for Lithography market size is expected to reach \$ 11800 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

A photomask, also known as a mask or reticle, is a high-precision quartz plate coated with an opaque chrome film containing microscopic circuit patterns. During photolithography, light is projected through the photomask onto a photoresist-coated silicon wafer, transferring the circuit design onto the wafer. This process is repeated with multiple masks to build up the various layers of a semiconductor device. Photomasks are essential for defining the geometric patterns of electronic components and circuits on a chip, enabling the production of highly detailed and miniaturized electronic devices. Common types include quartz-based photomasks (used for advanced semiconductor nodes) and soda-lime-based photomasks (used for less demanding applications). From a value chain perspective, upstream includes high-purity quartz and soda-lime substrate suppliers (e.g., AGC, Corning), chrome coating material providers, and photomask blank manufacturers; midstream involves pattern design, electron-beam or laser writing, etching, defect inspection, and repair; downstream demand spans semiconductor chip manufacturing, flat panel display production, touch industry, and circuit board fabrication. In 2025, the average selling price is approximately US\$21,194 per square meter, global sales volume is about 350.49 thousand square meters, and gross margins generally range from 25% to 40%, driven by substrate material costs, pattern writing complexity, defect inspection precision, and stringent semiconductor-grade quality certification standards.

The photomask market is experiencing steady growth driven by the semiconductor industry's relentless pursuit of smaller process nodes and the increasing complexity of

chip designs. As the industry transitions to 5nm and below, the demand for advanced photomasks with higher resolution and tighter defect tolerances has intensified dramatically. According to industry surveys, 64% of semiconductor luminaries predict mask revenues will increase in 2025, with mask writing ranked as the top priority for investment at the leading edge.

Another significant trend is the adoption of Extreme Ultraviolet (EUV) lithography for advanced nodes. EUV masks (also known as EUV reticles) require new materials and manufacturing techniques to withstand the high energy of EUV light. High-NA EUV lithography, targeted for the most advanced nodes, is under active development, with 40% of luminaries now believing the minimum dimension of mask sub-resolution assist features needed is 15nm or below. Multi-beam mask writer purchases are expected to increase significantly over the next three years, with 88% of respondents predicting growth in this area.

This report studies the global Photomask for Lithography production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photomask for Lithography and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Photomask for Lithography that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Photomask for Lithography total production and demand, 2021-2032, (K Sqm)

Global Photomask for Lithography total production value, 2021-2032, (USD Million)

Global Photomask for Lithography production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Photomask for Lithography consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Photomask for Lithography domestic production, consumption, key domestic manufacturers and share

Global Photomask for Lithography production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Photomask for Lithography production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Photomask for Lithography production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Photomask for Lithography market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Photronics, Inc., Toppan Photomask Co., Ltd., Dai Nippon Printing Co., Ltd. (DNP), HOYA Corporation, SK-Electronics Co., Ltd., LG Innotek, ShenZheng QingVi Photomask Limited, Taiwan Mask Corporation, Nippon Filcon Co., Ltd., Compugraphics International Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Photomask for Lithography market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Photomask for Lithography Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photomask for Lithography Market, Segmentation by Type:

Quartz Photomask

Soda Photomask

Others

Global Photomask for Lithography Market, Segmentation by Lithography Technology:

EUV Mask (Extreme Ultraviolet)

DUV Mask (Deep Ultraviolet)

Global Photomask for Lithography Market, Segmentation by Resolution / Node:

Advanced Node Mask (
Mature Node Mask (? 7nm)

Global Photomask for Lithography Market, Segmentation by Application:

Semiconductor Chip Manufacturing

Flat Panel Display

Touch Industry

Circuit Board

Companies Profiled:

Photronics, Inc.

Toppan Photomask Co., Ltd.

Dai Nippon Printing Co., Ltd. (DNP)

HOYA Corporation

SK-Electronics Co., Ltd.

LG Innotek

ShenZheng QingVi Photomask Limited

Taiwan Mask Corporation

Nippon Filcon Co., Ltd.

Compugraphics International Ltd.

Newway Photomask Co., Ltd.

STARMASK

Key Questions Answered:

1. How big is the global Photomask for Lithography market?
2. What is the demand of the global Photomask for Lithography market?
3. What is the year over year growth of the global Photomask for Lithography market?
4. What is the production and production value of the global Photomask for Lithography market?
5. Who are the key producers in the global Photomask for Lithography market?
6. What are the growth factors driving the market demand?

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