

Global Quartz Masks Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Quartz Masks market size was valued at US\$ 3660 million in 2025 and is forecast to a readjusted size of US\$ 5197 million by 2032 with a CAGR of 5.2% during review period.

A quartz mask is a high-precision optical template using high-purity quartz glass as a substrate. A metallic light-shielding layer (usually chromium, Cr) is deposited on the surface, and intricate patterns are formed through photolithography and etching processes. It is primarily used in the pattern transfer process during the manufacturing of semiconductors, display panels, PCBs, MEMS, and optoelectronic devices. Its core function is to project pre-designed micro-circuits or structural patterns onto the surface of wafers, glass substrates, or photosensitive materials using ultraviolet or extreme ultraviolet light in exposure equipment. It is one of the key fundamental materials in modern microelectronics manufacturing.

The upstream of the industry chain mainly includes high-purity quartz substrates, chromium targets, photoresists, coating materials, electron beam exposure equipment, defect detection equipment, and ultra-clean processing materials, among which high-purity quartz glass and EUV mask blanks are core key materials. The midstream consists of quartz mask design, manufacturing, and repair companies, involving high-precision processes such as electron beam exposure, chromium plating, photolithography, etching, defect detection, and pattern repair. The downstream is mainly used in semiconductor wafer manufacturing, OLED/LCD display panels, PCB circuit boards, MEMS devices, optical communication, and micro-nano processing. AI chips, advanced processes (5nm/3nm), EUV lithography, and high-end display panels are becoming the fastest-growing areas for quartz mask demand.

In 2025, global quartz mask sales reached 234,000 pieces, with a production capacity of approximately 334,000 pieces, an average selling price of US\$15,200 per piece, and an average gross profit margin of 30%-40%.

In terms of products and technology, the quartz mask industry is upgrading from traditional binary photomasks to Phase Shift Masks (PSM), EUV Masks, and high-precision multilayer masks. Current advanced semiconductor processes rely on EUV lithography, requiring nanometer-level flatness, defect rate, and pattern accuracy in quartz substrates. Simultaneously, large-size display panels are driving the expansion of high-generation mask sizes, while advanced packaging, chiplets, and MEMS technologies are driving the demand for high-precision microstructure masks. In the future, the industry will further develop towards low defect rates, high transmittance, ultra-high precision, and intelligent detection, while AI defect detection and automatic repair systems are beginning to enter high-end mask manufacturing processes.

Regarding the policy environment, the restructuring of the global semiconductor supply chain, chip localization, and advanced manufacturing self-sufficiency are profoundly impacting the quartz photomask industry. The United States, Japan, and Europe are increasingly strengthening export controls on advanced lithography and semiconductor equipment, while China continues to increase its support for the localization of semiconductor materials and photomasks. At the same time, global wafer fab expansion, advanced packaging investment, and the growing demand for AI chips are bringing new growth opportunities to the quartz mask industry. However, the industry also faces challenges such as huge equipment investment, rapid technological iteration, high difficulty of EUV process, and long customer certification cycle.

This report is a detailed and comprehensive analysis for global Quartz Masks market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Quartz Masks market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Quartz Masks market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Quartz Masks market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Quartz Masks market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Quartz Masks

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Quartz Masks market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Photronics, Toppan, DNP, Hoya, SK-Electronics, LG Innotek, Tosoh, Shin-Etsu Chemical, Longtu Photomask, QingVi, etc.

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

Market Segmentation

Quartz Masks market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Binary Mask

Phase Shift Mask

EUV Mask

Attenuated PSM Mask

Market segment by Accuracy

≥200nm

200-350nm

≥350nm

Market segment by Light-Blocking Material

Chrome Mask

Non-Chrome Mask

Market segment by Application

Semiconductor Wafer Manufacturing

OLED/LCD Display Panel Manufacturing

PCB Circuit Board Manufacturing

MEMS Device Manufacturing

Optical Communication

Advanced Packaging

Other

Major players covered

Photronics

Toppan

DNP

Hoya

SK-Electronics

LG Innotek

Tosoh

Shin-Etsu Chemical

Longtu Photomask

QingVi

Taiwan Mask

Newway Photomask

Keystone

Changsha Shaoguang Semiconductor Materials

OMNISUN Information Materials

Feilihua

Zhongtian Technology

Pacific Quartz

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Quartz Masks product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Quartz Masks, with price, sales quantity, revenue, and global market share of Quartz Masks from 2021 to 2026.

Chapter 3, the Quartz Masks competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Quartz Masks breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Quartz Masks market forecast, by regions, by

Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Quartz Masks.

Chapter 14 and 15, to describe Quartz Masks sales channel, distributors, customers, research findings and conclusion.

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