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Global Phase-Shifting Mask (PSM) 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 Phase-Shifting Mask (PSM) market size was valued at US$ million in 2025 and is forecast to a readjusted size of US$ million by 2032 with a CAGR of %during review period.

The phase-shifting mask is widely used in the semiconductor chip manufacturing process to improve the resolution of the chip and the contrast of the pattern by introducing different phase shifts on the mask. The PSM works by creating transparent or opaque regions with different phases on the mask. When light passes through the mask, the light waves of different phases interfere, resulting in high-contrast and sharp patterns. Phase shifting can be achieved by changing the optical properties of the mask material or introducing special diffraction structures during the photolithography process.

PSM can effectively overcome the resolution limitations faced by traditional binary masks. Its application in chip manufacturing can help improve chip density and performance and reduce the impact of process deviations. It plays an important role in modern semiconductor manufacturing and helps promote the progress and development of chip technology.

This report is a detailed and comprehensive analysis for global Phase-Shifting Mask (PSM) 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

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share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Phase-Shifting Mask (PSM) market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Phase-Shifting Mask (PSM) market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Phase-Shifting Mask (PSM) market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Phase-Shifting Mask (PSM) market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 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 Phase-Shifting Mask (PSM)

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 Phase-Shifting Mask (PSM) 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 Toppan Photomask, DNP, Photronics, China Resources Microelectronics Limited, etc.

This report also provides key insights about market drivers, restraints, opportunities,

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new product launches or approvals.

Market Segmentation

Phase-Shifting Mask (PSM) 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

Attenuated PSM

Alternative PSM

Market segment by Application

Semiconductor

Material

Others

Major players covered

Toppan Photomask

DNP

Photronics

China Resources Microelectronics Limited

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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 Phase-Shifting Mask (PSM) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phase-Shifting Mask (PSM), with price, sales quantity, revenue, and global market share of Phase-Shifting Mask (PSM) from 2021 to 2026.

Chapter 3, the Phase-Shifting Mask (PSM) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Phase-Shifting Mask (PSM) 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 Phase-Shifting Mask (PSM) market forecast, by regions, by Type, and by

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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 Phase-Shifting Mask (PSM).

Chapter 14 and 15, to describe Phase-Shifting Mask (PSM) sales channel, distributors, customers, research findings and conclusion.

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