

# Phase Shift Masks (PSM) Market, Global Outlook and Forecast 2022-2028

<https://marketpublishers.com/r/PFE1D3606D74EN.html>

Date: March 2022

Pages: 75

Price: US\$ 3,250.00 (Single User License)

ID: PFE1D3606D74EN

## Abstracts

Phase Shift Mask, PSM is a resolution enhancement technology that simultaneously uses the intensity and phase of light to image to obtain higher resolution. The phase shift mask is a method to improve the resolution of lithography by changing the phase of the beam. The basic principle is to change the mask structure so that the light wave passing through the adjacent light-transmitting area produces a phase difference of 180 degrees. The two are in the image plane. Destructive interference will occur in a specific area on the upper part, reducing the light intensity of the dark field in the light field and increasing the light field in the bright area to increase the contrast and improve the resolution

This report contains market size and forecasts of Phase Shift Masks (PSM) in global, including the following market information:

Global Phase Shift Masks (PSM) Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Phase Shift Masks (PSM) Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five Phase Shift Masks (PSM) companies in 2021 (%)

The global Phase Shift Masks (PSM) market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Half-tone Mask (Attenuated PSM) Segment to Reach \$ Million by 2028, with a % CAGR

in next six years.

The global key manufacturers of Phase Shift Masks (PSM) include Photronics, DNP, Toppan, HOYA and China Resources Microelectronics, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Phase Shift Masks (PSM) manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Phase Shift Masks (PSM) Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Phase Shift Masks (PSM) Market Segment Percentages, by Type, 2021 (%)

Halftone Mask (Attenuated PSM)

Levenson Mask (Alternating PSM)

RimPSM

Sub ResolutionPSM

Self-alignmentPSM

Chrome-lessPSM /All -transparent PSM

Complex PSM

Global Phase Shift Masks (PSM) Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Phase Shift Masks (PSM) Market Segment Percentages, by Application, 2021 (%)

193 nm

248 nm

365 nm

Global Phase Shift Masks (PSM) Market, By Region and Country, 2017-2022,  
2023-2028 (\$ Millions) & (K Units)

Global Phase Shift Masks (PSM) Market Segment Percentages, By Region and  
Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

## Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

## South America

Brazil

Argentina

Rest of South America

## Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

## Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Phase Shift Masks (PSM) revenues in global market, 2017-2022  
(Estimated), (\$ millions)

Key companies Phase Shift Masks (PSM) revenues share in global market, 2021 (%)

Key companies Phase Shift Masks (PSM) sales in global market, 2017-2022  
(Estimated), (K Units)

Key companies Phase Shift Masks (PSM) sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Photronics

DNP

Toppan

HOYA

China Resources Microelectronics

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