

Global Mask Blank Defect Inspection System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/M1FB689D3CF2EN.html>

Date: January 2026

Pages: 97

Price: US\$ 3,480.00 (Single User License)

ID: M1FB689D3CF2EN

Abstracts

According to our (Global Info Research) latest study, the global Mask Blank Defect Inspection System market size was valued at US\$ 139 million in 2025 and is forecast to a readjusted size of US\$ 239 million by 2032 with a CAGR of 7.9% during review period.

Mask Blank Defect Inspection System is specialized equipment used to automatically scan and evaluate unpatterned photomask blanks before any lithography pattern is written, detecting and localizing surface, edge, and film related defects such as particles, scratches, pits, contamination, and coating anomalies that could later print or degrade mask performance. It combines precision handling, high sensitivity imaging or scattering based detection, and defect recognition software to support incoming qualification, process gate control after cleaning or film deposition, and outgoing grading so mask makers and blank suppliers can prevent latent blank defects from propagating into patterned masks and wafer yield loss. The unit price of a Mask Blank Defect Inspection System is typically in the millions of dollars, and the industry gross profit margin is between 40% and 60%.

Upstream, the supply chain centers on high performance optomechanical assemblies and subsystems including illumination sources, high numerical aperture optics, sensors and cameras, stages and motion control, vibration isolation, clean handling modules, and industrial computing hardware, alongside software for signal processing, defect classification, and tool control, with support from precision machining, electronics manufacturing, and metrology calibration services. Downstream, systems are sold primarily to photomask blank material suppliers and photomask shops, and are also deployed by advanced semiconductor fabs for reticle incoming qualification and periodic

requalification, with revenues supported by installation and validation services, spare parts and consumables, preventive maintenance contracts, software upgrades, and applications support tied to new blank stacks and tightening defect requirements.

This report is a detailed and comprehensive analysis for global Mask Blank Defect Inspection System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Substrate Material 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 Mask Blank Defect Inspection System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Mask Blank Defect Inspection System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Mask Blank Defect Inspection System market size and forecasts, by Substrate Material and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Mask Blank Defect Inspection System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Mask Blank Defect Inspection System
- 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 Mask Blank Defect Inspection System 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 Lasertec, KLA, Advantest, LAZIN, VPtek, Yuweitek, TENYUM, etc.

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

Market Segmentation

Mask Blank Defect Inspection System market is split by Substrate Material and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Substrate Material, 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 Substrate Material

Quartz Glass Substrate

Chromium-plated Mask Substrate

Others

Market segment by Downstream Customer

Mask Shops

Mask Blank Manufacturers

Semiconductor Fabs

Others

Market segment by Application

Semiconductor Industry

Flat Panel Display Industry

Others

Major players covered

Lasertec

KLA

Advantest

LAZIN

VPtek

Yuweitek

TENYUM

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 Mask Blank Defect Inspection System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Mask Blank Defect Inspection System, with price, sales quantity, revenue, and global market share of Mask Blank Defect Inspection System from 2021 to 2026.

Chapter 3, the Mask Blank Defect Inspection System competitive situation, sales

quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Mask Blank Defect Inspection System 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 Substrate Material and by Application, with sales market share and growth rate by Substrate Material, 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 Mask Blank Defect Inspection System market forecast, by regions, by Substrate Material, 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 Mask Blank Defect Inspection System.

Chapter 14 and 15, to describe Mask Blank Defect Inspection System sales channel, distributors, customers, research findings and conclusion.

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