

Global Mask Substrate (Blank Mask) Inspection Equipment 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 Mask Substrate (Blank Mask) Inspection Equipment market size was valued at US\$ 482 million in 2025 and is forecast to a readjusted size of US\$ 713 million by 2032 with a CAGR of 6.0% during review period.

Mask blank inspection equipment is precision equipment used in the upstream stage of mask manufacturing to perform comprehensive defect detection and measurement on blank mask substrates (high-purity quartz or ultra-low-expansion glass substrates with anti-reflective or reflective coatings) that have not yet been patterned. Its core function is to screen out surface particles, coating defects, and flatness/uniformity anomalies on the substrate prior to patterning, thereby preventing the replication and magnification of defects during subsequent photolithography. This directly determines the yield of both the mask and the chip manufacturing process.

In 2025, global sales of mask blank inspection equipment reached 64 units, with an average price of \$7,320,000 per unit.

Development Trends

Technology is evolving toward higher precision and faster speeds

Resolution: From 20 nm ? 5 nm ? sub-3 nm, supporting 3 nm and below EUV processes.

Speed: Multi-beam electron beams and high-speed optical scanning increase inspection

efficiency by 30%+.

Multimodal: Optical + Electron Beam + AI becomes the mainstream approach, balancing accuracy and throughput.

Intelligence and Integration

AI Deep Learning: Automatic defect classification, false positive rate reduced by 40%+, accuracy >99.9%.

Production Line Integration: Inline inspection, integrated with substrate coating, polishing, and cleaning processes to achieve zero-defect manufacturing.

Digitalization: Cloud-based platform for managing inspection data, supporting cross-factory collaboration and predictive maintenance.

Downstream (Mask / Chip / Display Industries)

Mask Factories: Inspection equipment determines the yield of blank substrates; a shortage of high-end equipment limits advanced mask production capacity and drives up mask costs.

Chip Manufacturing: Defects in blank substrates + mask defects + batch scrap of wafers. Advanced processes demand an extreme level of zero-defect manufacturing, making inspection equipment the core of yield assurance.

Display Industry: Growing demand for inspection of large-size and high-generation display mask substrates is driving equipment evolution toward larger sizes, higher speeds, and lower costs.

This report is a detailed and comprehensive analysis for global Mask Substrate (Blank Mask) Inspection Equipment 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 Mask Substrate (Blank Mask) Inspection Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

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

Global Mask Substrate (Blank Mask) Inspection Equipment 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 Substrate (Blank Mask) Inspection Equipment

- 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 Substrate (Blank Mask) Inspection Equipment 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 Corporation, Advantest, VPTek, Lazin, YUWEITEK, etc.

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

Market Segmentation

Mask Substrate (Blank Mask) Inspection Equipment 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

- DUV Inspection Equipment

- EUV Inspection Equipment

Market segment by Detection Technology

- Optical Inspection Equipment

- Electron Beam (E-beam/SEM) Inspection Equipment

Market segment by Sales Channels

- Direct Sales

- Distribution

Market segment by Application

- Semiconductor Chips

- Display Panels

Major players covered

- Lasertec

KLA Corporation

Advantest

VPTek

Lazin

YUWEITEK

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 Substrate (Blank Mask) Inspection Equipment product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Mask Substrate (Blank Mask) Inspection Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Mask Substrate (Blank Mask) Inspection Equipment 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 Mask Substrate (Blank Mask) Inspection Equipment 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 Mask Substrate (Blank Mask) Inspection Equipment.

Chapter 14 and 15, to describe Mask Substrate (Blank Mask) Inspection Equipment sales channel, distributors, customers, research findings and conclusion.

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