

# Global EUV Mask Defect Inspection Equipment Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global EUV Mask Defect Inspection Equipment market size will reach 2,043.30 Million USD in 2025 and is projected to reach 4,762.59 Million USD by 2032, with a CAGR of 12.85% (2025-2032). Notably, the China EUV Mask Defect Inspection Equipment market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

EUV (Extreme Ultraviolet) Mask Defect Inspection Equipment is a highly specialized system used in semiconductor manufacturing to detect and characterize defects on EUV photomasks, which are critical components for printing ultra-fine patterns onto silicon wafers at advanced technology nodes (typically 7nm and below). These masks operate at a wavelength of 13.5 nm, requiring inspection tools capable of extreme precision and sensitivity due to the small feature sizes and reflective mask structures. The equipment uses various advanced techniques, such as actinic (wavelength-matching) inspection, high-resolution imaging, and sophisticated algorithms, to identify even the smallest defects—such as phase defects, particles, or absorber pattern errors—that could affect chip yield or performance. Ensuring defect-free EUV masks is essential for the reliable production of next-generation integrated circuits.

The major global manufacturers of EUV Mask Defect Inspection Equipment include Lasertec, KLA-Tencor, Advantest, etc. The global players competition landscape in this

report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of EUV Mask Defect Inspection Equipment. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global EUV Mask Defect Inspection Equipment market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the EUV Mask Defect Inspection Equipment market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of EUV Mask Defect Inspection Equipment industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of EUV Mask Defect Inspection Equipment Include:

Lasertec

KLA-Tencor

Advantest

EUV Mask Defect Inspection Equipment Product Segment Include:

5-7nm Process

3nm and Below Process

EUV Mask Defect Inspection Equipment Product Application Include:

Mask Shop

Fab

## **Chapter Scope**

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