

Global Wafer Defect Inspection System Market Growth 2024-2030

<https://marketpublishers.com/r/GA74AFCAAD6EEN.html>

Date: March 2025

Pages: 207

Price: US\$ 3,660.00 (Single User License)

ID: GA74AFCAAD6EEN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Wafer Defect Inspection System market size is predicted to grow from US\$ 7494 million in 2024 to US\$ 13250 million in 2030; it is expected to grow at a CAGR of 10.0% from 2024 to 2030.

Wafer defect inspection system detects physical defects (foreign substances called particles) and pattern defects on wafers and obtains the position coordinates (X, Y) of the defects. Defects can be divided into random defects and systematic defects.

Random defects are mainly caused by particles that become attached to a wafer surface, so their positions cannot be predicted. The major role of a wafer defect inspection system is to detect defects on a wafer and find out their positions (position coordinates).

On the other hand, systematic defects are caused by the conditions of the mask and exposure process, and will occur in the same position on the circuit pattern of all the dies projected. They occur in locations where the exposure conditions are very difficult and require fine adjustment.

The wafer defect inspection system detects defects by comparing the image of the circuit patterns of the adjacent dies. As a result, systematic defects sometimes cannot be detected using a conventional wafer defect inspection system.

Inspection can be performed on a patterned process wafer or on a bare wafer. Each of these has a different system configuration. Below is an explanation of typical inspection

systems; Patterned wafer inspection system and Non-patterned wafer inspection system.

The global key manufacturers of Wafer Defect Inspection System include KLA Corporation, Applied Materials, ASML, Hitachi High-Tech Corporation, Onto Innovation, Camtek, Skyverse Technology, SCREEN Semiconductor Solutions, Lasertec, NEXTIN, etc. In 2023, the global top 10 players had a share approximately 92.0% in terms of revenue.

In Patterned Wafer Defect Inspection Systems segment are dominated by KLA and Applied Materials;

Unpatterned Wafer Inspection Systems are dominated by KLA and Hitachi High-Tech Corporation; e-Beam Wafer Defect Review and Classification Systems are dominated by ASML and Applied Materials.

The global market for semiconductor was estimated at US\$ 526.8 billion in the year 2023, is projected to US\$ 780.7 billion by 2030. IC Manufacturing is the process used to manufacture semiconductor devices, typically integrated circuits (ICs) such as computer processors, microcontrollers, and memory chips (such as NAND flash and DRAM). According to our research, the global semiconductor manufacturing (wafer fabrication) market is projected to grow from US\$ 251.7 billion in 2023 to US\$ 506.5 billion by 2030, at a Compound Annual Growth Rate (CAGR) of 40.49% during the forecast period. This will drive rapid growth of global Wafer Defect Inspection System.

LP Information, Inc. (LPI) ' newest research report, the "Wafer Defect Inspection System Industry Forecast" looks at past sales and reviews total world Wafer Defect Inspection System sales in 2023, providing a comprehensive analysis by region and market sector of projected Wafer Defect Inspection System sales for 2024 through 2030. With Wafer Defect Inspection System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Wafer Defect Inspection System industry.

This Insight Report provides a comprehensive analysis of the global Wafer Defect Inspection System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Wafer Defect Inspection System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique

position in an accelerating global Wafer Defect Inspection System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Wafer Defect Inspection System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Wafer Defect Inspection System.

This report presents a comprehensive overview, market shares, and growth opportunities of Wafer Defect Inspection System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Patterned Wafer Defect Inspection System

Non-patterned Wafer Defect Inspection System

E-beam Wafer Defect Inspection and Classification System

Wafer Macro Defects Detection and Classification

Wafer Inspection System for Advanced Packaging

Segmentation by Application:

300mm Wafer Size

200mm Wafer Size

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

KLA Corporation

Applied Materials

Lasertec

Hitachi High-Tech Corporation

ASML

Onto Innovation

Camtek

SCREEN Semiconductor Solutions

Skyverse Technology

Toray Engineering

NEXTIN

Suzhou TZTEK (Muetec)

Microtronic

Bruker

SMEE

Hangzhou Changchuan Technology

Wuhan Jingce Electronic Group

Angkun Vision (Beijing) Technology

Nanotronics

Visiontec Group

Hefei Yuwei Semiconductor Technology

Suzhou Secote (Optima)

DJEL

Jiangsu VPTEK

Ever Red New Technology

Confovis

Zhongdao Optoelectronic

Suzhou Xinshi Technology

RSIC scientific instrument (Shanghai)

Gaoshi Technology (Suzhou)

Unity Semiconductor SAS

JUTZE Intelligence Technology

Chroma ATE Inc

CMIT

Engitist Corporation

HYE Technology

Shuztung Group

Cortex Robotics

Takano

Shanghai Techsense

Key Questions Addressed in this Report

What is the 10-year outlook for the global Wafer Defect Inspection System market?

What factors are driving Wafer Defect Inspection System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Wafer Defect Inspection System market opportunities vary by end market size?

How does Wafer Defect Inspection System break out by Type, by Application?

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