

Global Wafer Defect Inspection System Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Wafer Defect Inspection System market size was valued at US\$ 7883 million in 2024 and is forecast to a readjusted size of USD 14670 million by 2031 with a CAGR of 9.4% during review period.

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.

This report is a detailed and comprehensive analysis for global Wafer Defect Inspection System 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 Wafer Defect Inspection System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Wafer Defect Inspection System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Wafer Defect Inspection System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Wafer Defect Inspection System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

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 Wafer Defect Inspection System
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Wafer 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 KLA Corporation, Applied Materials, Lasertec, Hitachi High-Tech Corporation, ASML, Onto Innovation, Camtek, SCREEN Semiconductor Solutions, Skyverse Technology, Toray Engineering, etc.

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

Market Segmentation

Wafer Defect Inspection System market is split by Type and by Application. For the period 2020-2031, 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

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

Market segment by Application

300mm Wafer Size

200mm Wafer Size

Others

Major players covered

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

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Gaoshi Technology (Suzhou)

Unity Semiconductor SAS

JUTZE Intelligence Technology

Chroma ATE Inc

CMIT

Engitist Corporation

HYE Technology

Shuztung Group

Cortex Robotics

Takano

Shanghai Techsense

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

Chapter 2, to profile the top manufacturers of Wafer Defect Inspection System, with price, sales quantity, revenue, and global market share of Wafer Defect Inspection

System from 2020 to 2025.

Chapter 3, the Wafer Defect Inspection System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Wafer Defect Inspection System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Wafer Defect Inspection System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Wafer Defect Inspection System.

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

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