

Global Wafer Defect Optical Inspection System Market Growth 2026-2032

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Abstracts

The global Wafer Defect Optical Inspection System market size is predicted to grow from US\$ 6246 million in 2025 to US\$ 11930 million in 2032; it is expected to grow at a CAGR of 9.9% from 2026 to 2032.

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 Optical 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.

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 Optical Inspection System.

LP Information, Inc. (LPI) ' newest research report, the "Wafer Defect Optical Inspection System Industry Forecast" looks at past sales and reviews total world Wafer Defect Optical Inspection System sales in 2025, providing a comprehensive analysis by region and market sector of projected Wafer Defect Optical Inspection System sales for 2026 through 2032. With Wafer Defect Optical 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 Optical Inspection System industry.

This Insight Report provides a comprehensive analysis of the global Wafer Defect Optical 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 Optical 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 Optical Inspection System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Wafer Defect Optical 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 Optical Inspection System.

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

Segmentation by Type:

- Bright Field Patterned Wafer Defect Inspection

- Dark Field Patterned Wafer Defect Inspection

- Dark Field Non-patterned Wafer Defect Inspection

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 Optical Inspection System market?

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

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

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

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

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Wafer Defect Optical Inspection System Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Wafer Defect Optical Inspection System by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Wafer Defect Optical Inspection System by Country/Region, 2021, 2025 & 2032
- 2.2 Wafer Defect Optical Inspection System Segment by Type
 - 2.2.1 Bright Field Patterned Wafer Defect Inspection
 - 2.2.2 Dark Field Patterned Wafer Defect Inspection
 - 2.2.3 Dark Field Non-patterned Wafer Defect Inspection
 - 2.2.4 Wafer Defect Optical Inspection System Sales by Type
 - 2.2.4.1 Global Wafer Defect Optical Inspection System Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Wafer Defect Optical Inspection System Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Wafer Defect Optical Inspection System Sale Price by Type (2021-2026)
- 2.3 Wafer Defect Optical Inspection System Segment by Application
 - 2.3.1 300mm Wafer Size
 - 2.3.2 200mm Wafer Size
 - 2.3.3 Others
 - 2.3.4 Wafer Defect Optical Inspection System Sales by Application
 - 2.3.4.1 Global Wafer Defect Optical Inspection System Sale Market Share by Application (2021-2026)

2.3.4.2 Global Wafer Defect Optical Inspection System Revenue and Market Share by Application (2021-2026)

2.3.4.3 Global Wafer Defect Optical Inspection System Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Wafer Defect Optical Inspection System Breakdown Data by Company

3.1.1 Global Wafer Defect Optical Inspection System Annual Sales by Company (2021-2026)

3.1.2 Global Wafer Defect Optical Inspection System Sales Market Share by Company (2021-2026)

3.2 Global Wafer Defect Optical Inspection System Annual Revenue by Company (2021-2026)

3.2.1 Global Wafer Defect Optical Inspection System Revenue by Company (2021-2026)

3.2.2 Global Wafer Defect Optical Inspection System Revenue Market Share by Company (2021-2026)

3.3 Global Wafer Defect Optical Inspection System Sale Price by Company

3.4 Key Manufacturers Wafer Defect Optical Inspection System Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Wafer Defect Optical Inspection System Product Location Distribution

3.4.2 Players Wafer Defect Optical Inspection System Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR WAFER DEFECT OPTICAL INSPECTION SYSTEM BY GEOGRAPHIC REGION

4.1 World Historic Wafer Defect Optical Inspection System Market Size by Geographic Region (2021-2026)

4.1.1 Global Wafer Defect Optical Inspection System Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Wafer Defect Optical Inspection System Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Wafer Defect Optical Inspection System Market Size by Country/Region (2021-2026)

4.2.1 Global Wafer Defect Optical Inspection System Annual Sales by Country/Region (2021-2026)

4.2.2 Global Wafer Defect Optical Inspection System Annual Revenue by Country/Region (2021-2026)

4.3 Americas Wafer Defect Optical Inspection System Sales Growth

4.4 APAC Wafer Defect Optical Inspection System Sales Growth

4.5 Europe Wafer Defect Optical Inspection System Sales Growth

4.6 Middle East & Africa Wafer Defect Optical Inspection System Sales Growth

5 AMERICAS

5.1 Americas Wafer Defect Optical Inspection System Sales by Country

5.1.1 Americas Wafer Defect Optical Inspection System Sales by Country (2021-2026)

5.1.2 Americas Wafer Defect Optical Inspection System Revenue by Country (2021-2026)

5.2 Americas Wafer Defect Optical Inspection System Sales by Type (2021-2026)

5.3 Americas Wafer Defect Optical Inspection System Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Wafer Defect Optical Inspection System Sales by Region

6.1.1 APAC Wafer Defect Optical Inspection System Sales by Region (2021-2026)

6.1.2 APAC Wafer Defect Optical Inspection System Revenue by Region (2021-2026)

6.2 APAC Wafer Defect Optical Inspection System Sales by Type (2021-2026)

6.3 APAC Wafer Defect Optical Inspection System Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Wafer Defect Optical Inspection System by Country

7.1.1 Europe Wafer Defect Optical Inspection System Sales by Country (2021-2026)

7.1.2 Europe Wafer Defect Optical Inspection System Revenue by Country
(2021-2026)

7.2 Europe Wafer Defect Optical Inspection System Sales by Type (2021-2026)

7.3 Europe Wafer Defect Optical Inspection System Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Wafer Defect Optical Inspection System by Country

8.1.1 Middle East & Africa Wafer Defect Optical Inspection System Sales by Country
(2021-2026)

8.1.2 Middle East & Africa Wafer Defect Optical Inspection System Revenue by
Country (2021-2026)

8.2 Middle East & Africa Wafer Defect Optical Inspection System Sales by Type
(2021-2026)

8.3 Middle East & Africa Wafer Defect Optical Inspection System Sales by Application
(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Wafer Defect Optical Inspection System
- 10.3 Manufacturing Process Analysis of Wafer Defect Optical Inspection System
- 10.4 Industry Chain Structure of Wafer Defect Optical Inspection System

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Wafer Defect Optical Inspection System Distributors
- 11.3 Wafer Defect Optical Inspection System Customer

12 WORLD FORECAST REVIEW FOR WAFER DEFECT OPTICAL INSPECTION SYSTEM BY GEOGRAPHIC REGION

- 12.1 Global Wafer Defect Optical Inspection System Market Size Forecast by Region
 - 12.1.1 Global Wafer Defect Optical Inspection System Forecast by Region (2027-2032)
 - 12.1.2 Global Wafer Defect Optical Inspection System Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Wafer Defect Optical Inspection System Forecast by Type (2027-2032)
- 12.7 Global Wafer Defect Optical Inspection System Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 KLA Corporation
 - 13.1.1 KLA Corporation Company Information
 - 13.1.2 KLA Corporation Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.1.3 KLA Corporation Wafer Defect Optical Inspection System Sales, Revenue,

Price and Gross Margin (2021-2026)

13.1.4 KLA Corporation Main Business Overview

13.1.5 KLA Corporation Latest Developments

13.2 Applied Materials

13.2.1 Applied Materials Company Information

13.2.2 Applied Materials Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.2.3 Applied Materials Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Applied Materials Main Business Overview

13.2.5 Applied Materials Latest Developments

13.3 Lasertec

13.3.1 Lasertec Company Information

13.3.2 Lasertec Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.3.3 Lasertec Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Lasertec Main Business Overview

13.3.5 Lasertec Latest Developments

13.4 Hitachi High-Tech Corporation

13.4.1 Hitachi High-Tech Corporation Company Information

13.4.2 Hitachi High-Tech Corporation Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.4.3 Hitachi High-Tech Corporation Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Hitachi High-Tech Corporation Main Business Overview

13.4.5 Hitachi High-Tech Corporation Latest Developments

13.5 ASML

13.5.1 ASML Company Information

13.5.2 ASML Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.5.3 ASML Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 ASML Main Business Overview

13.5.5 ASML Latest Developments

13.6 Onto Innovation

13.6.1 Onto Innovation Company Information

13.6.2 Onto Innovation Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.6.3 Onto Innovation Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Onto Innovation Main Business Overview

13.6.5 Onto Innovation Latest Developments

13.7 Camtek

13.7.1 Camtek Company Information

13.7.2 Camtek Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.7.3 Camtek Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Camtek Main Business Overview

13.7.5 Camtek Latest Developments

13.8 SCREEN Semiconductor Solutions

13.8.1 SCREEN Semiconductor Solutions Company Information

13.8.2 SCREEN Semiconductor Solutions Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.8.3 SCREEN Semiconductor Solutions Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 SCREEN Semiconductor Solutions Main Business Overview

13.8.5 SCREEN Semiconductor Solutions Latest Developments

13.9 Skyverse Technology

13.9.1 Skyverse Technology Company Information

13.9.2 Skyverse Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.9.3 Skyverse Technology Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Skyverse Technology Main Business Overview

13.9.5 Skyverse Technology Latest Developments

13.10 Toray Engineering

13.10.1 Toray Engineering Company Information

13.10.2 Toray Engineering Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.10.3 Toray Engineering Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Toray Engineering Main Business Overview

13.10.5 Toray Engineering Latest Developments

13.11 NEXTIN

13.11.1 NEXTIN Company Information

13.11.2 NEXTIN Wafer Defect Optical Inspection System Product Portfolios and

Specifications

13.11.3 NEXTIN Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 NEXTIN Main Business Overview

13.11.5 NEXTIN Latest Developments

13.12 Suzhou TZTEK (Muetec)

13.12.1 Suzhou TZTEK (Muetec) Company Information

13.12.2 Suzhou TZTEK (Muetec) Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.12.3 Suzhou TZTEK (Muetec) Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Suzhou TZTEK (Muetec) Main Business Overview

13.12.5 Suzhou TZTEK (Muetec) Latest Developments

13.13 Microtronic

13.13.1 Microtronic Company Information

13.13.2 Microtronic Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.13.3 Microtronic Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Microtronic Main Business Overview

13.13.5 Microtronic Latest Developments

13.14 Bruker

13.14.1 Bruker Company Information

13.14.2 Bruker Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.14.3 Bruker Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Bruker Main Business Overview

13.14.5 Bruker Latest Developments

13.15 SMEE

13.15.1 SMEE Company Information

13.15.2 SMEE Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.15.3 SMEE Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 SMEE Main Business Overview

13.15.5 SMEE Latest Developments

13.16 Hangzhou Changchuan Technology

13.16.1 Hangzhou Changchuan Technology Company Information

13.16.2 Hangzhou Changchuan Technology Wafer Defect Optical Inspection System
Product Portfolios and Specifications

13.16.3 Hangzhou Changchuan Technology Wafer Defect Optical Inspection System
Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Hangzhou Changchuan Technology Main Business Overview

13.16.5 Hangzhou Changchuan Technology Latest Developments

13.17 Wuhan Jingce Electronic Group

13.17.1 Wuhan Jingce Electronic Group Company Information

13.17.2 Wuhan Jingce Electronic Group Wafer Defect Optical Inspection System
Product Portfolios and Specifications

13.17.3 Wuhan Jingce Electronic Group Wafer Defect Optical Inspection System
Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 Wuhan Jingce Electronic Group Main Business Overview

13.17.5 Wuhan Jingce Electronic Group Latest Developments

13.18 Angkun Vision (Beijing) Technology

13.18.1 Angkun Vision (Beijing) Technology Company Information

13.18.2 Angkun Vision (Beijing) Technology Wafer Defect Optical Inspection System
Product Portfolios and Specifications

13.18.3 Angkun Vision (Beijing) Technology Wafer Defect Optical Inspection System
Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Angkun Vision (Beijing) Technology Main Business Overview

13.18.5 Angkun Vision (Beijing) Technology Latest Developments

13.19 Nanotronics

13.19.1 Nanotronics Company Information

13.19.2 Nanotronics Wafer Defect Optical Inspection System Product Portfolios and
Specifications

13.19.3 Nanotronics Wafer Defect Optical Inspection System Sales, Revenue, Price
and Gross Margin (2021-2026)

13.19.4 Nanotronics Main Business Overview

13.19.5 Nanotronics Latest Developments

13.20 Visiontec Group

13.20.1 Visiontec Group Company Information

13.20.2 Visiontec Group Wafer Defect Optical Inspection System Product Portfolios
and Specifications

13.20.3 Visiontec Group Wafer Defect Optical Inspection System Sales, Revenue,
Price and Gross Margin (2021-2026)

13.20.4 Visiontec Group Main Business Overview

13.20.5 Visiontec Group Latest Developments

13.21 Hefei Yuwei Semiconductor Technology

- 13.21.1 Hefei Yuwei Semiconductor Technology Company Information
- 13.21.2 Hefei Yuwei Semiconductor Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications
- 13.21.3 Hefei Yuwei Semiconductor Technology Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.21.4 Hefei Yuwei Semiconductor Technology Main Business Overview
- 13.21.5 Hefei Yuwei Semiconductor Technology Latest Developments
- 13.22 Suzhou Secote (Optima)
 - 13.22.1 Suzhou Secote (Optima) Company Information
 - 13.22.2 Suzhou Secote (Optima) Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.22.3 Suzhou Secote (Optima) Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.22.4 Suzhou Secote (Optima) Main Business Overview
 - 13.22.5 Suzhou Secote (Optima) Latest Developments
- 13.23 DJEL
 - 13.23.1 DJEL Company Information
 - 13.23.2 DJEL Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.23.3 DJEL Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.23.4 DJEL Main Business Overview
 - 13.23.5 DJEL Latest Developments
- 13.24 Jiangsu VPTEK
 - 13.24.1 Jiangsu VPTEK Company Information
 - 13.24.2 Jiangsu VPTEK Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.24.3 Jiangsu VPTEK Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.24.4 Jiangsu VPTEK Main Business Overview
 - 13.24.5 Jiangsu VPTEK Latest Developments
- 13.25 Ever Red New Technology
 - 13.25.1 Ever Red New Technology Company Information
 - 13.25.2 Ever Red New Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.25.3 Ever Red New Technology Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.25.4 Ever Red New Technology Main Business Overview
 - 13.25.5 Ever Red New Technology Latest Developments

13.26 Confovis

13.26.1 Confovis Company Information

13.26.2 Confovis Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.26.3 Confovis Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.26.4 Confovis Main Business Overview

13.26.5 Confovis Latest Developments

13.27 Zhongdao Optoelectronic

13.27.1 Zhongdao Optoelectronic Company Information

13.27.2 Zhongdao Optoelectronic Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.27.3 Zhongdao Optoelectronic Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.27.4 Zhongdao Optoelectronic Main Business Overview

13.27.5 Zhongdao Optoelectronic Latest Developments

13.28 Suzhou Xinshi Technology

13.28.1 Suzhou Xinshi Technology Company Information

13.28.2 Suzhou Xinshi Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.28.3 Suzhou Xinshi Technology Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.28.4 Suzhou Xinshi Technology Main Business Overview

13.28.5 Suzhou Xinshi Technology Latest Developments

13.29 RSIC scientific instrument (Shanghai)

13.29.1 RSIC scientific instrument (Shanghai) Company Information

13.29.2 RSIC scientific instrument (Shanghai) Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.29.3 RSIC scientific instrument (Shanghai) Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.29.4 RSIC scientific instrument (Shanghai) Main Business Overview

13.29.5 RSIC scientific instrument (Shanghai) Latest Developments

13.30 Gaoshi Technology (Suzhou)

13.30.1 Gaoshi Technology (Suzhou) Company Information

13.30.2 Gaoshi Technology (Suzhou) Wafer Defect Optical Inspection System Product Portfolios and Specifications

13.30.3 Gaoshi Technology (Suzhou) Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

13.30.4 Gaoshi Technology (Suzhou) Main Business Overview

- 13.30.5 Gaoshi Technology (Suzhou) Latest Developments
- 13.31 Unity Semiconductor SAS
 - 13.31.1 Unity Semiconductor SAS Company Information
 - 13.31.2 Unity Semiconductor SAS Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.31.3 Unity Semiconductor SAS Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.31.4 Unity Semiconductor SAS Main Business Overview
 - 13.31.5 Unity Semiconductor SAS Latest Developments
- 13.32 JUTZE Intelligence Technology
 - 13.32.1 JUTZE Intelligence Technology Company Information
 - 13.32.2 JUTZE Intelligence Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.32.3 JUTZE Intelligence Technology Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.32.4 JUTZE Intelligence Technology Main Business Overview
 - 13.32.5 JUTZE Intelligence Technology Latest Developments
- 13.33 Chroma ATE Inc
 - 13.33.1 Chroma ATE Inc Company Information
 - 13.33.2 Chroma ATE Inc Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.33.3 Chroma ATE Inc Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.33.4 Chroma ATE Inc Main Business Overview
 - 13.33.5 Chroma ATE Inc Latest Developments
- 13.34 CMIT
 - 13.34.1 CMIT Company Information
 - 13.34.2 CMIT Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.34.3 CMIT Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.34.4 CMIT Main Business Overview
 - 13.34.5 CMIT Latest Developments
- 13.35 Engitist Corporation
 - 13.35.1 Engitist Corporation Company Information
 - 13.35.2 Engitist Corporation Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.35.3 Engitist Corporation Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.35.4 Engitist Corporation Main Business Overview
- 13.35.5 Engitist Corporation Latest Developments
- 13.36 HYE Technology
 - 13.36.1 HYE Technology Company Information
 - 13.36.2 HYE Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.36.3 HYE Technology Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.36.4 HYE Technology Main Business Overview
 - 13.36.5 HYE Technology Latest Developments
- 13.37 Shuztung Group
 - 13.37.1 Shuztung Group Company Information
 - 13.37.2 Shuztung Group Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.37.3 Shuztung Group Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.37.4 Shuztung Group Main Business Overview
 - 13.37.5 Shuztung Group Latest Developments
- 13.38 Cortex Robotics
 - 13.38.1 Cortex Robotics Company Information
 - 13.38.2 Cortex Robotics Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.38.3 Cortex Robotics Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.38.4 Cortex Robotics Main Business Overview
 - 13.38.5 Cortex Robotics Latest Developments
- 13.39 Takano
 - 13.39.1 Takano Company Information
 - 13.39.2 Takano Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.39.3 Takano Wafer Defect Optical Inspection System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.39.4 Takano Main Business Overview
 - 13.39.5 Takano Latest Developments
- 13.40 Shanghai Techsense
 - 13.40.1 Shanghai Techsense Company Information
 - 13.40.2 Shanghai Techsense Wafer Defect Optical Inspection System Product Portfolios and Specifications
 - 13.40.3 Shanghai Techsense Wafer Defect Optical Inspection System Sales,

Revenue, Price and Gross Margin (2021-2026)

13.40.4 Shanghai Techsense Main Business Overview

13.40.5 Shanghai Techsense Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Wafer Defect Optical Inspection System Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Wafer Defect Optical Inspection System Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Bright Field Patterned Wafer Defect Inspection

Table 4. Major Players of Dark Field Patterned Wafer Defect Inspection

Table 5. Major Players of Dark Field Non-patterned Wafer Defect Inspection

Table 6. Global Wafer Defect Optical Inspection System Sales by Type (2021-2026) & (Units)

Table 7. Global Wafer Defect Optical Inspection System Sales Market Share by Type (2021-2026)

Table 8. Global Wafer Defect Optical Inspection System Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Wafer Defect Optical Inspection System Revenue Market Share by Type (2021-2026)

Table 10. Global Wafer Defect Optical Inspection System Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Global Wafer Defect Optical Inspection System Sale by Application (2021-2026) & (Units)

Table 12. Global Wafer Defect Optical Inspection System Sale Market Share by Application (2021-2026)

Table 13. Global Wafer Defect Optical Inspection System Revenue by Application (2021-2026) & (\$ million)

Table 14. Global Wafer Defect Optical Inspection System Revenue Market Share by Application (2021-2026)

Table 15. Global Wafer Defect Optical Inspection System Sale Price by Application (2021-2026) & (US\$/Unit)

Table 16. Global Wafer Defect Optical Inspection System Sales by Company (2021-2026) & (Units)

Table 17. Global Wafer Defect Optical Inspection System Sales Market Share by Company (2021-2026)

Table 18. Global Wafer Defect Optical Inspection System Revenue by Company (2021-2026) & (\$ millions)

Table 19. Global Wafer Defect Optical Inspection System Revenue Market Share by Company (2021-2026)

Table 20. Global Wafer Defect Optical Inspection System Sale Price by Company (2021-2026) & (US\$/Unit)

Table 21. Key Manufacturers Wafer Defect Optical Inspection System Producing Area Distribution and Sales Area

Table 22. Players Wafer Defect Optical Inspection System Products Offered

Table 23. Wafer Defect Optical Inspection System Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Wafer Defect Optical Inspection System Sales by Geographic Region (2021-2026) & (Units)

Table 27. Global Wafer Defect Optical Inspection System Sales Market Share Geographic Region (2021-2026)

Table 28. Global Wafer Defect Optical Inspection System Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 29. Global Wafer Defect Optical Inspection System Revenue Market Share by Geographic Region (2021-2026)

Table 30. Global Wafer Defect Optical Inspection System Sales by Country/Region (2021-2026) & (Units)

Table 31. Global Wafer Defect Optical Inspection System Sales Market Share by Country/Region (2021-2026)

Table 32. Global Wafer Defect Optical Inspection System Revenue by Country/Region (2021-2026) & (\$ millions)

Table 33. Global Wafer Defect Optical Inspection System Revenue Market Share by Country/Region (2021-2026)

Table 34. Americas Wafer Defect Optical Inspection System Sales by Country (2021-2026) & (Units)

Table 35. Americas Wafer Defect Optical Inspection System Sales Market Share by Country (2021-2026)

Table 36. Americas Wafer Defect Optical Inspection System Revenue by Country (2021-2026) & (\$ millions)

Table 37. Americas Wafer Defect Optical Inspection System Sales by Type (2021-2026) & (Units)

Table 38. Americas Wafer Defect Optical Inspection System Sales by Application (2021-2026) & (Units)

Table 39. APAC Wafer Defect Optical Inspection System Sales by Region (2021-2026) & (Units)

Table 40. APAC Wafer Defect Optical Inspection System Sales Market Share by Region (2021-2026)

Table 41. APAC Wafer Defect Optical Inspection System Revenue by Region
(2021-2026) & (\$ millions)

Table 42. APAC Wafer Defect Optical Inspection System Sales by Type (2021-2026) &
(Units)

Table 43. APAC Wafer Defect Optical Inspection System Sales by Application
(2021-2026) & (Units)

Table 44. Europe Wafer Defect Optical Inspection System Sales by Country
(2021-2026) & (Units)

Table 45. Europe Wafer Defect Optical Inspection System Revenue by Country
(2021-2026) & (\$ millions)

Table 46. Europe Wafer Defect Optical Inspection System Sales by Type (2021-2026) &
(Units)

Table 47. Europe Wafer Defect Optical Inspection System Sales by Application
(2021-2026) & (Units)

Table 48. Middle East & Africa Wafer Defect Optical Inspection System Sales by
Country (2021-2026) & (Units)

Table 49. Middle East & Africa Wafer Defect Optical Inspection System Revenue
Market Share by Country (2021-2026)

Table 50. Middle East & Africa Wafer Defect Optical Inspection System Sales by Type
(2021-2026) & (Units)

Table 51. Middle East & Africa Wafer Defect Optical Inspection System Sales by
Application (2021-2026) & (Units)

Table 52. Key Market Drivers & Growth Opportunities of Wafer Defect Optical
Inspection System

Table 53. Key Market Challenges & Risks of Wafer Defect Optical Inspection System

Table 54. Key Industry Trends of Wafer Defect Optical Inspection System

Table 55. Wafer Defect Optical Inspection System Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. Wafer Defect Optical Inspection System Distributors List

Table 58. Wafer Defect Optical Inspection System Customer List

Table 59. Global Wafer Defect Optical Inspection System Sales Forecast by Region
(2027-2032) & (Units)

Table 60. Global Wafer Defect Optical Inspection System Revenue Forecast by Region
(2027-2032) & (\$ millions)

Table 61. Americas Wafer Defect Optical Inspection System Sales Forecast by Country
(2027-2032) & (Units)

Table 62. Americas Wafer Defect Optical Inspection System Annual Revenue Forecast
by Country (2027-2032) & (\$ millions)

Table 63. APAC Wafer Defect Optical Inspection System Sales Forecast by Region

(2027-2032) & (Units)

Table 64. APAC Wafer Defect Optical Inspection System Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 65. Europe Wafer Defect Optical Inspection System Sales Forecast by Country (2027-2032) & (Units)

Table 66. Europe Wafer Defect Optical Inspection System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 67. Middle East & Africa Wafer Defect Optical Inspection System Sales Forecast by Country (2027-2032) & (Units)

Table 68. Middle East & Africa Wafer Defect Optical Inspection System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 69. Global Wafer Defect Optical Inspection System Sales Forecast by Type (2027-2032) & (Units)

Table 70. Global Wafer Defect Optical Inspection System Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 71. Global Wafer Defect Optical Inspection System Sales Forecast by Application (2027-2032) & (Units)

Table 72. Global Wafer Defect Optical Inspection System Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 73. KLA Corporation Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 74. KLA Corporation Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 75. KLA Corporation Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 76. KLA Corporation Main Business

Table 77. KLA Corporation Latest Developments

Table 78. Applied Materials Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 79. Applied Materials Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 80. Applied Materials Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 81. Applied Materials Main Business

Table 82. Applied Materials Latest Developments

Table 83. Lasertec Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 84. Lasertec Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 85. Lasertec Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 86. Lasertec Main Business

Table 87. Lasertec Latest Developments

Table 88. Hitachi High-Tech Corporation Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 89. Hitachi High-Tech Corporation Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 90. Hitachi High-Tech Corporation Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 91. Hitachi High-Tech Corporation Main Business

Table 92. Hitachi High-Tech Corporation Latest Developments

Table 93. ASML Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 94. ASML Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 95. ASML Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 96. ASML Main Business

Table 97. ASML Latest Developments

Table 98. Onto Innovation Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 99. Onto Innovation Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 100. Onto Innovation Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 101. Onto Innovation Main Business

Table 102. Onto Innovation Latest Developments

Table 103. Camtek Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 104. Camtek Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 105. Camtek Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 106. Camtek Main Business

Table 107. Camtek Latest Developments

Table 108. SCREEN Semiconductor Solutions Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 109. SCREEN Semiconductor Solutions Wafer Defect Optical Inspection System

Product Portfolios and Specifications

Table 110. SCREEN Semiconductor Solutions Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 111. SCREEN Semiconductor Solutions Main Business

Table 112. SCREEN Semiconductor Solutions Latest Developments

Table 113. Skyverse Technology Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 114. Skyverse Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 115. Skyverse Technology Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 116. Skyverse Technology Main Business

Table 117. Skyverse Technology Latest Developments

Table 118. Toray Engineering Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 119. Toray Engineering Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 120. Toray Engineering Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 121. Toray Engineering Main Business

Table 122. Toray Engineering Latest Developments

Table 123. NEXTIN Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 124. NEXTIN Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 125. NEXTIN Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 126. NEXTIN Main Business

Table 127. NEXTIN Latest Developments

Table 128. Suzhou TZTEK (Muetec) Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 129. Suzhou TZTEK (Muetec) Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 130. Suzhou TZTEK (Muetec) Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 131. Suzhou TZTEK (Muetec) Main Business

Table 132. Suzhou TZTEK (Muetec) Latest Developments

Table 133. Microtronic Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 134. Microtronic Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 135. Microtronic Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 136. Microtronic Main Business

Table 137. Microtronic Latest Developments

Table 138. Bruker Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 139. Bruker Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 140. Bruker Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 141. Bruker Main Business

Table 142. Bruker Latest Developments

Table 143. SMEE Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 144. SMEE Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 145. SMEE Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 146. SMEE Main Business

Table 147. SMEE Latest Developments

Table 148. Hangzhou Changchuan Technology Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 149. Hangzhou Changchuan Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 150. Hangzhou Changchuan Technology Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 151. Hangzhou Changchuan Technology Main Business

Table 152. Hangzhou Changchuan Technology Latest Developments

Table 153. Wuhan Jingce Electronic Group Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 154. Wuhan Jingce Electronic Group Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 155. Wuhan Jingce Electronic Group Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 156. Wuhan Jingce Electronic Group Main Business

Table 157. Wuhan Jingce Electronic Group Latest Developments

Table 158. Angkun Vision (Beijing) Technology Basic Information, Wafer Defect Optical

Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 159. Angkun Vision (Beijing) Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 160. Angkun Vision (Beijing) Technology Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 161. Angkun Vision (Beijing) Technology Main Business

Table 162. Angkun Vision (Beijing) Technology Latest Developments

Table 163. Nanotronics Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 164. Nanotronics Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 165. Nanotronics Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 166. Nanotronics Main Business

Table 167. Nanotronics Latest Developments

Table 168. Visiontec Group Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 169. Visiontec Group Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 170. Visiontec Group Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 171. Visiontec Group Main Business

Table 172. Visiontec Group Latest Developments

Table 173. Hefei Yuwei Semiconductor Technology Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 174. Hefei Yuwei Semiconductor Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 175. Hefei Yuwei Semiconductor Technology Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 176. Hefei Yuwei Semiconductor Technology Main Business

Table 177. Hefei Yuwei Semiconductor Technology Latest Developments

Table 178. Suzhou Secote (Optima) Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 179. Suzhou Secote (Optima) Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 180. Suzhou Secote (Optima) Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 181. Suzhou Secote (Optima) Main Business

Table 182. Suzhou Secote (Optima) Latest Developments

Table 183. DJEL Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 184. DJEL Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 185. DJEL Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 186. DJEL Main Business

Table 187. DJEL Latest Developments

Table 188. Jiangsu VPTEK Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 189. Jiangsu VPTEK Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 190. Jiangsu VPTEK Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 191. Jiangsu VPTEK Main Business

Table 192. Jiangsu VPTEK Latest Developments

Table 193. Ever Red New Technology Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 194. Ever Red New Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 195. Ever Red New Technology Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 196. Ever Red New Technology Main Business

Table 197. Ever Red New Technology Latest Developments

Table 198. Confovis Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 199. Confovis Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 200. Confovis Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 201. Confovis Main Business

Table 202. Confovis Latest Developments

Table 203. Zhongdao Optoelectronic Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 204. Zhongdao Optoelectronic Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 205. Zhongdao Optoelectronic Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 206. Zhongdao Optoelectronic Main Business

Table 207. Zhongdao Optoelectronic Latest Developments

Table 208. Suzhou Xinshi Technology Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 209. Suzhou Xinshi Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 210. Suzhou Xinshi Technology Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 211. Suzhou Xinshi Technology Main Business

Table 212. Suzhou Xinshi Technology Latest Developments

Table 213. RSIC scientific instrument (Shanghai) Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 214. RSIC scientific instrument (Shanghai) Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 215. RSIC scientific instrument (Shanghai) Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 216. RSIC scientific instrument (Shanghai) Main Business

Table 217. RSIC scientific instrument (Shanghai) Latest Developments

Table 218. Gaoshi Technology (Suzhou) Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 219. Gaoshi Technology (Suzhou) Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 220. Gaoshi Technology (Suzhou) Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 221. Gaoshi Technology (Suzhou) Main Business

Table 222. Gaoshi Technology (Suzhou) Latest Developments

Table 223. Unity Semiconductor SAS Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 224. Unity Semiconductor SAS Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 225. Unity Semiconductor SAS Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 226. Unity Semiconductor SAS Main Business

Table 227. Unity Semiconductor SAS Latest Developments

Table 228. JUTZE Intelligence Technology Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 229. JUTZE Intelligence Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 230. JUTZE Intelligence Technology Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 231. JUTZE Intelligence Technology Main Business

Table 232. JUTZE Intelligence Technology Latest Developments

Table 233. Chroma ATE Inc Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 234. Chroma ATE Inc Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 235. Chroma ATE Inc Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 236. Chroma ATE Inc Main Business

Table 237. Chroma ATE Inc Latest Developments

Table 238. CMIT Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 239. CMIT Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 240. CMIT Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 241. CMIT Main Business

Table 242. CMIT Latest Developments

Table 243. Engitist Corporation Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 244. Engitist Corporation Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 245. Engitist Corporation Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 246. Engitist Corporation Main Business

Table 247. Engitist Corporation Latest Developments

Table 248. HYE Technology Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 249. HYE Technology Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 250. HYE Technology Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 251. HYE Technology Main Business

Table 252. HYE Technology Latest Developments

Table 253. Shuztung Group Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 254. Shuztung Group Wafer Defect Optical Inspection System Product Portfolios

and Specifications

Table 255. Shuztung Group Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 256. Shuztung Group Main Business

Table 257. Shuztung Group Latest Developments

Table 258. Cortex Robotics Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 259. Cortex Robotics Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 260. Cortex Robotics Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 261. Cortex Robotics Main Business

Table 262. Cortex Robotics Latest Developments

Table 263. Takano Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 264. Takano Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 265. Takano Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 266. Takano Main Business

Table 267. Takano Latest Developments

Table 268. Shanghai Techsense Basic Information, Wafer Defect Optical Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 269. Shanghai Techsense Wafer Defect Optical Inspection System Product Portfolios and Specifications

Table 270. Shanghai Techsense Wafer Defect Optical Inspection System Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 271. Shanghai Techsense Main Business

Table 272. Shanghai Techsense Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Wafer Defect Optical Inspection System
- Figure 2. Wafer Defect Optical Inspection System Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Wafer Defect Optical Inspection System Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Wafer Defect Optical Inspection System Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Wafer Defect Optical Inspection System Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Wafer Defect Optical Inspection System Sales Market Share by Country/Region (2025)
- Figure 10. Wafer Defect Optical Inspection System Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Bright Field Patterned Wafer Defect Inspection
- Figure 12. Product Picture of Dark Field Patterned Wafer Defect Inspection
- Figure 13. Product Picture of Dark Field Non-patterned Wafer Defect Inspection
- Figure 14. Global Wafer Defect Optical Inspection System Sales Market Share by Type in 2026
- Figure 15. Global Wafer Defect Optical Inspection System Revenue Market Share by Type (2021-2026)
- Figure 16. Wafer Defect Optical Inspection System Consumed in 300mm Wafer Size
- Figure 17. Global Wafer Defect Optical Inspection System Market: 300mm Wafer Size (2021-2026) & (Units)
- Figure 18. Wafer Defect Optical Inspection System Consumed in 200mm Wafer Size
- Figure 19. Global Wafer Defect Optical Inspection System Market: 200mm Wafer Size (2021-2026) & (Units)
- Figure 20. Wafer Defect Optical Inspection System Consumed in Others
- Figure 21. Global Wafer Defect Optical Inspection System Market: Others (2021-2026) & (Units)
- Figure 22. Global Wafer Defect Optical Inspection System Sale Market Share by Application (2025)
- Figure 23. Global Wafer Defect Optical Inspection System Revenue Market Share by Application in 2026

Figure 24. Wafer Defect Optical Inspection System Sales by Company in 2026 (Units)

Figure 25. Global Wafer Defect Optical Inspection System Sales Market Share by Company in 2026

Figure 26. Wafer Defect Optical Inspection System Revenue by Company in 2026 (\$ millions)

Figure 27. Global Wafer Defect Optical Inspection System Revenue Market Share by Company in 2026

Figure 28. Global Wafer Defect Optical Inspection System Sales Market Share by Geographic Region (2021-2026)

Figure 29. Global Wafer Defect Optical Inspection System Revenue Market Share by Geographic Region in 2026

Figure 30. Americas Wafer Defect Optical Inspection System Sales 2021-2026 (Units)

Figure 31. Americas Wafer Defect Optical Inspection System Revenue 2021-2026 (\$ millions)

Figure 32. APAC Wafer Defect Optical Inspection System Sales 2021-2026 (Units)

Figure 33. APAC Wafer Defect Optical Inspection System Revenue 2021-2026 (\$ millions)

Figure 34. Europe Wafer Defect Optical Inspection System Sales 2021-2026 (Units)

Figure 35. Europe Wafer Defect Optical Inspection System Revenue 2021-2026 (\$ millions)

Figure 36. Middle East & Africa Wafer Defect Optical Inspection System Sales 2021-2026 (Units)

Figure 37. Middle East & Africa Wafer Defect Optical Inspection System Revenue 2021-2026 (\$ millions)

Figure 38. Americas Wafer Defect Optical Inspection System Sales Market Share by Country in 2026

Figure 39. Americas Wafer Defect Optical Inspection System Revenue Market Share by Country (2021-2026)

Figure 40. Americas Wafer Defect Optical Inspection System Sales Market Share by Type (2021-2026)

Figure 41. Americas Wafer Defect Optical Inspection System Sales Market Share by Application (2021-2026)

Figure 42. United States Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 43. Canada Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 44. Mexico Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 45. Brazil Wafer Defect Optical Inspection System Revenue Growth 2021-2026

(\$ millions)

Figure 46. APAC Wafer Defect Optical Inspection System Sales Market Share by Region in 2026

Figure 47. APAC Wafer Defect Optical Inspection System Revenue Market Share by Region (2021-2026)

Figure 48. APAC Wafer Defect Optical Inspection System Sales Market Share by Type (2021-2026)

Figure 49. APAC Wafer Defect Optical Inspection System Sales Market Share by Application (2021-2026)

Figure 50. China Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 51. Japan Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 52. South Korea Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 53. Southeast Asia Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 54. India Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 55. Australia Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 56. China Taiwan Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 57. Europe Wafer Defect Optical Inspection System Sales Market Share by Country in 2026

Figure 58. Europe Wafer Defect Optical Inspection System Revenue Market Share by Country (2021-2026)

Figure 59. Europe Wafer Defect Optical Inspection System Sales Market Share by Type (2021-2026)

Figure 60. Europe Wafer Defect Optical Inspection System Sales Market Share by Application (2021-2026)

Figure 61. Germany Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 62. France Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 63. UK Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 64. Italy Wafer Defect Optical Inspection System Revenue Growth 2021-2026 (\$ millions)

Figure 65. Russia Wafer Defect Optical Inspection System Revenue Growth

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