

Global Fully Automatic Wafer Defect Inspection System Market Research Report 2026(Status and Outlook)

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Abstracts

Fully Automatic Wafer Defect Inspection System is a highly sophisticated machine used in the semiconductor industry to detect and classify defects on wafers during the manufacturing process. This system utilizes advanced imaging technology, machine learning algorithms, and robotic automation to perform accurate and comprehensive inspections. The global key manufacturers of Fully Automatic 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.

The global Fully Automatic Wafer Defect Inspection System market size was estimated at USD 6756.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 9.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Fully Automatic Wafer Defect Inspection System market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Fully Automatic Wafer Defect Inspection System market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Fully Automatic Wafer Defect Inspection System market.

Global Fully Automatic Wafer Defect Inspection System Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

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
Viontec 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)

Market Segmentation (by Type)

Patterned Wafer Defect Inspection System
Non-patterned Wafer Defect Inspection System
E-beam Wafer Defect Inspection and Classification System
Others

Market Segmentation (by Application)

300mm Wafer Size

200mm Wafer Size

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Fully Automatic Wafer Defect Inspection System Market

Overview of the regional outlook of the Fully Automatic Wafer Defect Inspection System Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Fully Automatic Wafer Defect Inspection System Market and its likely evolution in the

short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Fully Automatic Wafer Defect Inspection System, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Fully Automatic Wafer Defect Inspection System
- 1.2 Key Market Segments
 - 1.2.1 Fully Automatic Wafer Defect Inspection System Segment by Type
 - 1.2.2 Fully Automatic Wafer Defect Inspection System Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 FULLY AUTOMATIC WAFER DEFECT INSPECTION SYSTEM MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Fully Automatic Wafer Defect Inspection System Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Fully Automatic Wafer Defect Inspection System Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 FULLY AUTOMATIC WAFER DEFECT INSPECTION SYSTEM MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Fully Automatic Wafer Defect Inspection System Product Life Cycle
- 3.3 Global Fully Automatic Wafer Defect Inspection System Sales by Manufacturers (2020-2025)
- 3.4 Global Fully Automatic Wafer Defect Inspection System Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Fully Automatic Wafer Defect Inspection System Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Fully Automatic Wafer Defect Inspection System Average Price by

Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Fully Automatic Wafer Defect Inspection System Market Competitive Situation and Trends

3.8.1 Fully Automatic Wafer Defect Inspection System Market Concentration Rate

3.8.2 Global 5 and 10 Largest Fully Automatic Wafer Defect Inspection System

Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 FULLY AUTOMATIC WAFER DEFECT INSPECTION SYSTEM INDUSTRY CHAIN ANALYSIS

4.1 Fully Automatic Wafer Defect Inspection System Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF FULLY AUTOMATIC WAFER DEFECT INSPECTION SYSTEM MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Fully Automatic Wafer Defect Inspection System Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Fully Automatic Wafer Defect Inspection System Market

5.7 ESG Ratings of Leading Companies

6 FULLY AUTOMATIC WAFER DEFECT INSPECTION SYSTEM MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Fully Automatic Wafer Defect Inspection System Sales Market Share by Type (2020-2025)

6.3 Global Fully Automatic Wafer Defect Inspection System Market Size by Type (2020-2025)

6.4 Global Fully Automatic Wafer Defect Inspection System Price by Type (2020-2025)

7 FULLY AUTOMATIC WAFER DEFECT INSPECTION SYSTEM MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Fully Automatic Wafer Defect Inspection System Market Sales by Application (2020-2025)

7.3 Global Fully Automatic Wafer Defect Inspection System Market Size (M USD) by Application (2020-2025)

7.4 Global Fully Automatic Wafer Defect Inspection System Sales Growth Rate by Application (2020-2025)

8 FULLY AUTOMATIC WAFER DEFECT INSPECTION SYSTEM MARKET SALES BY REGION

8.1 Global Fully Automatic Wafer Defect Inspection System Sales by Region

8.1.1 Global Fully Automatic Wafer Defect Inspection System Sales by Region

8.1.2 Global Fully Automatic Wafer Defect Inspection System Sales Market Share by Region

8.2 Global Fully Automatic Wafer Defect Inspection System Market Size by Region

8.2.1 Global Fully Automatic Wafer Defect Inspection System Market Size by Region

8.2.2 Global Fully Automatic Wafer Defect Inspection System Market Size by Region

8.3 North America

8.3.1 North America Fully Automatic Wafer Defect Inspection System Sales by Country

8.3.2 North America Fully Automatic Wafer Defect Inspection System Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Fully Automatic Wafer Defect Inspection System Sales by Country

8.4.2 Europe Fully Automatic Wafer Defect Inspection System Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Fully Automatic Wafer Defect Inspection System Sales by Region

8.5.2 Asia Pacific Fully Automatic Wafer Defect Inspection System Market Size by

Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Fully Automatic Wafer Defect Inspection System Sales by
Country

8.6.2 South America Fully Automatic Wafer Defect Inspection System Market Size by
Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Fully Automatic Wafer Defect Inspection System Sales by
Region

8.7.2 Middle East and Africa Fully Automatic Wafer Defect Inspection System Market
Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 FULLY AUTOMATIC WAFER DEFECT INSPECTION SYSTEM MARKET

PRODUCTION BY REGION

- 9.1 Global Production of Fully Automatic Wafer Defect Inspection System by Region(2020-2025)
- 9.2 Global Fully Automatic Wafer Defect Inspection System Revenue Market Share by Region (2020-2025)
- 9.3 Global Fully Automatic Wafer Defect Inspection System Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Fully Automatic Wafer Defect Inspection System Production
 - 9.4.1 North America Fully Automatic Wafer Defect Inspection System Production Growth Rate (2020-2025)
 - 9.4.2 North America Fully Automatic Wafer Defect Inspection System Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Fully Automatic Wafer Defect Inspection System Production
 - 9.5.1 Europe Fully Automatic Wafer Defect Inspection System Production Growth Rate (2020-2025)
 - 9.5.2 Europe Fully Automatic Wafer Defect Inspection System Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Fully Automatic Wafer Defect Inspection System Production (2020-2025)
 - 9.6.1 Japan Fully Automatic Wafer Defect Inspection System Production Growth Rate (2020-2025)
 - 9.6.2 Japan Fully Automatic Wafer Defect Inspection System Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Fully Automatic Wafer Defect Inspection System Production (2020-2025)
 - 9.7.1 China Fully Automatic Wafer Defect Inspection System Production Growth Rate (2020-2025)
 - 9.7.2 China Fully Automatic Wafer Defect Inspection System Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 KLA Corporation
 - 10.1.1 KLA Corporation Basic Information
 - 10.1.2 KLA Corporation Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.1.3 KLA Corporation Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.1.4 KLA Corporation Business Overview
 - 10.1.5 KLA Corporation SWOT Analysis

- 10.1.6 KLA Corporation Recent Developments
- 10.2 Applied Materials
 - 10.2.1 Applied Materials Basic Information
 - 10.2.2 Applied Materials Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.2.3 Applied Materials Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.2.4 Applied Materials Business Overview
 - 10.2.5 Applied Materials SWOT Analysis
 - 10.2.6 Applied Materials Recent Developments
- 10.3 Lasertec
 - 10.3.1 Lasertec Basic Information
 - 10.3.2 Lasertec Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.3.3 Lasertec Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.3.4 Lasertec Business Overview
 - 10.3.5 Lasertec SWOT Analysis
 - 10.3.6 Lasertec Recent Developments
- 10.4 Hitachi High-Tech Corporation
 - 10.4.1 Hitachi High-Tech Corporation Basic Information
 - 10.4.2 Hitachi High-Tech Corporation Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.4.3 Hitachi High-Tech Corporation Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.4.4 Hitachi High-Tech Corporation Business Overview
 - 10.4.5 Hitachi High-Tech Corporation Recent Developments
- 10.5 ASML
 - 10.5.1 ASML Basic Information
 - 10.5.2 ASML Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.5.3 ASML Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.5.4 ASML Business Overview
 - 10.5.5 ASML Recent Developments
- 10.6 Onto Innovation
 - 10.6.1 Onto Innovation Basic Information
 - 10.6.2 Onto Innovation Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.6.3 Onto Innovation Fully Automatic Wafer Defect Inspection System Product Market Performance

- 10.6.4 Onto Innovation Business Overview
- 10.6.5 Onto Innovation Recent Developments
- 10.7 Camtek
 - 10.7.1 Camtek Basic Information
 - 10.7.2 Camtek Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.7.3 Camtek Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.7.4 Camtek Business Overview
 - 10.7.5 Camtek Recent Developments
- 10.8 SCREEN Semiconductor Solutions
 - 10.8.1 SCREEN Semiconductor Solutions Basic Information
 - 10.8.2 SCREEN Semiconductor Solutions Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.8.3 SCREEN Semiconductor Solutions Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.8.4 SCREEN Semiconductor Solutions Business Overview
 - 10.8.5 SCREEN Semiconductor Solutions Recent Developments
- 10.9 Skyverse Technology
 - 10.9.1 Skyverse Technology Basic Information
 - 10.9.2 Skyverse Technology Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.9.3 Skyverse Technology Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.9.4 Skyverse Technology Business Overview
 - 10.9.5 Skyverse Technology Recent Developments
- 10.10 Toray Engineering
 - 10.10.1 Toray Engineering Basic Information
 - 10.10.2 Toray Engineering Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.10.3 Toray Engineering Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.10.4 Toray Engineering Business Overview
 - 10.10.5 Toray Engineering Recent Developments
- 10.11 NEXTIN
 - 10.11.1 NEXTIN Basic Information
 - 10.11.2 NEXTIN Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.11.3 NEXTIN Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.11.4 NEXTIN Business Overview

- 10.11.5 NEX TIN Recent Developments
- 10.12 Suzhou TZTEK (Muetec)
 - 10.12.1 Suzhou TZTEK (Muetec) Basic Information
 - 10.12.2 Suzhou TZTEK (Muetec) Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.12.3 Suzhou TZTEK (Muetec) Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.12.4 Suzhou TZTEK (Muetec) Business Overview
 - 10.12.5 Suzhou TZTEK (Muetec) Recent Developments
- 10.13 Microtronic
 - 10.13.1 Microtronic Basic Information
 - 10.13.2 Microtronic Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.13.3 Microtronic Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.13.4 Microtronic Business Overview
 - 10.13.5 Microtronic Recent Developments
- 10.14 Bruker
 - 10.14.1 Bruker Basic Information
 - 10.14.2 Bruker Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.14.3 Bruker Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.14.4 Bruker Business Overview
 - 10.14.5 Bruker Recent Developments
- 10.15 SMEE
 - 10.15.1 SMEE Basic Information
 - 10.15.2 SMEE Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.15.3 SMEE Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.15.4 SMEE Business Overview
 - 10.15.5 SMEE Recent Developments
- 10.16 Hangzhou Changchuan Technology
 - 10.16.1 Hangzhou Changchuan Technology Basic Information
 - 10.16.2 Hangzhou Changchuan Technology Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.16.3 Hangzhou Changchuan Technology Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.16.4 Hangzhou Changchuan Technology Business Overview
 - 10.16.5 Hangzhou Changchuan Technology Recent Developments
- 10.17 Wuhan Jingce Electronic Group

- 10.17.1 Wuhan Jingce Electronic Group Basic Information
- 10.17.2 Wuhan Jingce Electronic Group Fully Automatic Wafer Defect Inspection System Product Overview
- 10.17.3 Wuhan Jingce Electronic Group Fully Automatic Wafer Defect Inspection System Product Market Performance
- 10.17.4 Wuhan Jingce Electronic Group Business Overview
- 10.17.5 Wuhan Jingce Electronic Group Recent Developments
- 10.18 Angkun Vision (Beijing) Technology
 - 10.18.1 Angkun Vision (Beijing) Technology Basic Information
 - 10.18.2 Angkun Vision (Beijing) Technology Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.18.3 Angkun Vision (Beijing) Technology Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.18.4 Angkun Vision (Beijing) Technology Business Overview
 - 10.18.5 Angkun Vision (Beijing) Technology Recent Developments
- 10.19 Nanotronics
 - 10.19.1 Nanotronics Basic Information
 - 10.19.2 Nanotronics Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.19.3 Nanotronics Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.19.4 Nanotronics Business Overview
 - 10.19.5 Nanotronics Recent Developments
- 10.20 Visiontec Group
 - 10.20.1 Visiontec Group Basic Information
 - 10.20.2 Visiontec Group Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.20.3 Visiontec Group Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.20.4 Visiontec Group Business Overview
 - 10.20.5 Visiontec Group Recent Developments
- 10.21 Hefei Yuwei Semiconductor Technology
 - 10.21.1 Hefei Yuwei Semiconductor Technology Basic Information
 - 10.21.2 Hefei Yuwei Semiconductor Technology Fully Automatic Wafer Defect Inspection System Product Overview
 - 10.21.3 Hefei Yuwei Semiconductor Technology Fully Automatic Wafer Defect Inspection System Product Market Performance
 - 10.21.4 Hefei Yuwei Semiconductor Technology Business Overview
 - 10.21.5 Hefei Yuwei Semiconductor Technology Recent Developments

10.22 Suzhou Secote (Optima)

10.22.1 Suzhou Secote (Optima) Basic Information

10.22.2 Suzhou Secote (Optima) Fully Automatic Wafer Defect Inspection System
Product Overview

10.22.3 Suzhou Secote (Optima) Fully Automatic Wafer Defect Inspection System
Product Market Performance

10.22.4 Suzhou Secote (Optima) Business Overview

10.22.5 Suzhou Secote (Optima) Recent Developments

10.23 DJEL

10.23.1 DJEL Basic Information

10.23.2 DJEL Fully Automatic Wafer Defect Inspection System Product Overview

10.23.3 DJEL Fully Automatic Wafer Defect Inspection System Product Market
Performance

10.23.4 DJEL Business Overview

10.23.5 DJEL Recent Developments

10.24 Jiangsu VPTEK

10.24.1 Jiangsu VPTEK Basic Information

10.24.2 Jiangsu VPTEK Fully Automatic Wafer Defect Inspection System Product
Overview

10.24.3 Jiangsu VPTEK Fully Automatic Wafer Defect Inspection System Product
Market Performance

10.24.4 Jiangsu VPTEK Business Overview

10.24.5 Jiangsu VPTEK Recent Developments

10.25 Ever Red New Technology

10.25.1 Ever Red New Technology Basic Information

10.25.2 Ever Red New Technology Fully Automatic Wafer Defect Inspection System
Product Overview

10.25.3 Ever Red New Technology Fully Automatic Wafer Defect Inspection System
Product Market Performance

10.25.4 Ever Red New Technology Business Overview

10.25.5 Ever Red New Technology Recent Developments

10.26 Confovis

10.26.1 Confovis Basic Information

10.26.2 Confovis Fully Automatic Wafer Defect Inspection System Product Overview

10.26.3 Confovis Fully Automatic Wafer Defect Inspection System Product Market
Performance

10.26.4 Confovis Business Overview

10.26.5 Confovis Recent Developments

10.27 Zhongdao Optoelectronic

- 10.27.1 Zhongdao Optoelectronic Basic Information
- 10.27.2 Zhongdao Optoelectronic Fully Automatic Wafer Defect Inspection System
Product Overview
- 10.27.3 Zhongdao Optoelectronic Fully Automatic Wafer Defect Inspection System
Product Market Performance
- 10.27.4 Zhongdao Optoelectronic Business Overview
- 10.27.5 Zhongdao Optoelectronic Recent Developments
- 10.28 Suzhou Xinshi Technology
 - 10.28.1 Suzhou Xinshi Technology Basic Information
 - 10.28.2 Suzhou Xinshi Technology Fully Automatic Wafer Defect Inspection System
Product Overview
 - 10.28.3 Suzhou Xinshi Technology Fully Automatic Wafer Defect Inspection System
Product Market Performance
 - 10.28.4 Suzhou Xinshi Technology Business Overview
 - 10.28.5 Suzhou Xinshi Technology Recent Developments
- 10.29 RSIC scientific instrument (Shanghai)
 - 10.29.1 RSIC scientific instrument (Shanghai) Basic Information
 - 10.29.2 RSIC scientific instrument (Shanghai) Fully Automatic Wafer Defect Inspection
System Product Overview
 - 10.29.3 RSIC scientific instrument (Shanghai) Fully Automatic Wafer Defect Inspection
System Product Market Performance
 - 10.29.4 RSIC scientific instrument (Shanghai) Business Overview
 - 10.29.5 RSIC scientific instrument (Shanghai) Recent Developments
- 10.30 Gaoshi Technology (Suzhou)
 - 10.30.1 Gaoshi Technology (Suzhou) Basic Information
 - 10.30.2 Gaoshi Technology (Suzhou) Fully Automatic Wafer Defect Inspection System
Product Overview
 - 10.30.3 Gaoshi Technology (Suzhou) Fully Automatic Wafer Defect Inspection System
Product Market Performance
 - 10.30.4 Gaoshi Technology (Suzhou) Business Overview
 - 10.30.5 Gaoshi Technology (Suzhou) Recent Developments

11 FULLY AUTOMATIC WAFER DEFECT INSPECTION SYSTEM MARKET FORECAST BY REGION

- 11.1 Global Fully Automatic Wafer Defect Inspection System Market Size Forecast
- 11.2 Global Fully Automatic Wafer Defect Inspection System Market Forecast by
Region
 - 11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Fully Automatic Wafer Defect Inspection System Market Size Forecast by Country

11.2.3 Asia Pacific Fully Automatic Wafer Defect Inspection System Market Size Forecast by Region

11.2.4 South America Fully Automatic Wafer Defect Inspection System Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Fully Automatic Wafer Defect Inspection System by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Fully Automatic Wafer Defect Inspection System Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Fully Automatic Wafer Defect Inspection System by Type (2026-2035)

12.1.2 Global Fully Automatic Wafer Defect Inspection System Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Fully Automatic Wafer Defect Inspection System by Type (2026-2035)

12.2 Global Fully Automatic Wafer Defect Inspection System Market Forecast by Application (2026-2035)

12.2.1 Global Fully Automatic Wafer Defect Inspection System Sales (K Units) Forecast by Application

12.2.2 Global Fully Automatic Wafer Defect Inspection System Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Fully Automatic Wafer Defect Inspection System Market Size by Type (M USD)

Table 4. Global Fully Automatic Wafer Defect Inspection System Market Size by Application

Table 5. Fully Automatic Wafer Defect Inspection System Market Size Comparison by Region (M USD)

Table 6. Global Fully Automatic Wafer Defect Inspection System Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Fully Automatic Wafer Defect Inspection System Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Fully Automatic Wafer Defect Inspection System Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Fully Automatic Wafer Defect Inspection System Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Fully Automatic Wafer Defect Inspection System as of 2025)

Table 11. Global Market Fully Automatic Wafer Defect Inspection System Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Fully Automatic Wafer Defect Inspection System Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Fully Automatic Wafer Defect Inspection System Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading

Countries

Table 26. Global Fully Automatic Wafer Defect Inspection System Sales by Type (K Units)

Table 27. Global Fully Automatic Wafer Defect Inspection System Market Size by Type (M USD)

Table 28. Global Fully Automatic Wafer Defect Inspection System Sales (K Units) by Type (2020-2025)

Table 29. Global Fully Automatic Wafer Defect Inspection System Sales Market Share by Type (2020-2025)

Table 30. Global Fully Automatic Wafer Defect Inspection System Market Size (M USD) by Type (2020-2025)

Table 31. Global Fully Automatic Wafer Defect Inspection System Market Share by Type (2020-2025)

Table 32. Global Fully Automatic Wafer Defect Inspection System Price (USD/Unit) by Type (2020-2025)

Table 33. Global Fully Automatic Wafer Defect Inspection System Sales (K Units) by Application

Table 34. Global Fully Automatic Wafer Defect Inspection System Market Size by Application

Table 35. Global Fully Automatic Wafer Defect Inspection System Sales by Application (2020-2025) & (K Units)

Table 36. Global Fully Automatic Wafer Defect Inspection System Sales Market Share by Application (2020-2025)

Table 37. Global Fully Automatic Wafer Defect Inspection System Market Size by Application (2020-2025) & (M USD)

Table 38. Global Fully Automatic Wafer Defect Inspection System Market Share by Application (2020-2025)

Table 39. Global Fully Automatic Wafer Defect Inspection System Sales Growth Rate by Application (2020-2025)

Table 40. Global Fully Automatic Wafer Defect Inspection System Sales by Region (2020-2025) & (K Units)

Table 41. Global Fully Automatic Wafer Defect Inspection System Sales Market Share by Region (2020-2025)

Table 42. Global Fully Automatic Wafer Defect Inspection System Market Size by Region (2020-2025) & (M USD)

Table 43. Global Fully Automatic Wafer Defect Inspection System Market Size by Region (2020-2025)

Table 44. North America Fully Automatic Wafer Defect Inspection System Sales by Country (2020-2025) & (K Units)

Table 45. North America Fully Automatic Wafer Defect Inspection System Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Fully Automatic Wafer Defect Inspection System Sales by Country (2020-2025) & (K Units)

Table 47. Europe Fully Automatic Wafer Defect Inspection System Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Fully Automatic Wafer Defect Inspection System Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Fully Automatic Wafer Defect Inspection System Market Size by Region (2020-2025) & (M USD)

Table 50. South America Fully Automatic Wafer Defect Inspection System Sales by Country (2020-2025) & (K Units)

Table 51. South America Fully Automatic Wafer Defect Inspection System Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Fully Automatic Wafer Defect Inspection System Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Fully Automatic Wafer Defect Inspection System Market Size by Region (2020-2025) & (M USD)

Table 54. Global Fully Automatic Wafer Defect Inspection System Production (K Units) by Region(2020-2025)

Table 55. Global Fully Automatic Wafer Defect Inspection System Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Fully Automatic Wafer Defect Inspection System Revenue Market Share by Region (2020-2025)

Table 57. Global Fully Automatic Wafer Defect Inspection System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Fully Automatic Wafer Defect Inspection System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Fully Automatic Wafer Defect Inspection System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Fully Automatic Wafer Defect Inspection System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Fully Automatic Wafer Defect Inspection System Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. KLA Corporation Basic Information

Table 63. KLA Corporation Fully Automatic Wafer Defect Inspection System Product Overview

Table 64. KLA Corporation Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 65. KLA Corporation Business Overview
- Table 66. KLA Corporation SWOT Analysis
- Table 67. KLA Corporation Recent Developments
- Table 68. Applied Materials Basic Information
- Table 69. Applied Materials Fully Automatic Wafer Defect Inspection System Product Overview
- Table 70. Applied Materials Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 71. Applied Materials Business Overview
- Table 72. Applied Materials SWOT Analysis
- Table 73. Applied Materials Recent Developments
- Table 74. Lasertec Basic Information
- Table 75. Lasertec Fully Automatic Wafer Defect Inspection System Product Overview
- Table 76. Lasertec Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Lasertec Business Overview
- Table 78. Lasertec SWOT Analysis
- Table 79. Lasertec Recent Developments
- Table 80. Hitachi High-Tech Corporation Basic Information
- Table 81. Hitachi High-Tech Corporation Fully Automatic Wafer Defect Inspection System Product Overview
- Table 82. Hitachi High-Tech Corporation Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Hitachi High-Tech Corporation Business Overview
- Table 84. Hitachi High-Tech Corporation Recent Developments
- Table 85. ASML Basic Information
- Table 86. ASML Fully Automatic Wafer Defect Inspection System Product Overview
- Table 87. ASML Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. ASML Business Overview
- Table 89. ASML Recent Developments
- Table 90. Onto Innovation Basic Information
- Table 91. Onto Innovation Fully Automatic Wafer Defect Inspection System Product Overview
- Table 92. Onto Innovation Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Onto Innovation Business Overview
- Table 94. Onto Innovation Recent Developments

Table 95. Camtek Basic Information

Table 96. Camtek Fully Automatic Wafer Defect Inspection System Product Overview

Table 97. Camtek Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Camtek Business Overview

Table 99. Camtek Recent Developments

Table 100. SCREEN Semiconductor Solutions Basic Information

Table 101. SCREEN Semiconductor Solutions Fully Automatic Wafer Defect Inspection System Product Overview

Table 102. SCREEN Semiconductor Solutions Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. SCREEN Semiconductor Solutions Business Overview

Table 104. SCREEN Semiconductor Solutions Recent Developments

Table 105. Skyverse Technology Basic Information

Table 106. Skyverse Technology Fully Automatic Wafer Defect Inspection System Product Overview

Table 107. Skyverse Technology Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Skyverse Technology Business Overview

Table 109. Skyverse Technology Recent Developments

Table 110. Toray Engineering Basic Information

Table 111. Toray Engineering Fully Automatic Wafer Defect Inspection System Product Overview

Table 112. Toray Engineering Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Toray Engineering Business Overview

Table 114. Toray Engineering Recent Developments

Table 115. NEXTIN Basic Information

Table 116. NEXTIN Fully Automatic Wafer Defect Inspection System Product Overview

Table 117. NEXTIN Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 118. NEXTIN Business Overview

Table 119. NEXTIN Recent Developments

Table 120. Suzhou TZTEK (Muetec) Basic Information

Table 121. Suzhou TZTEK (Muetec) Fully Automatic Wafer Defect Inspection System Product Overview

Table 122. Suzhou TZTEK (Muetec) Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 123. Suzhou TZTEK (Muetec) Business Overview
- Table 124. Suzhou TZTEK (Muetec) Recent Developments
- Table 125. Microtronic Basic Information
- Table 126. Microtronic Fully Automatic Wafer Defect Inspection System Product Overview
- Table 127. Microtronic Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. Microtronic Business Overview
- Table 129. Microtronic Recent Developments
- Table 130. Bruker Basic Information
- Table 131. Bruker Fully Automatic Wafer Defect Inspection System Product Overview
- Table 132. Bruker Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. Bruker Business Overview
- Table 134. Bruker Recent Developments
- Table 135. SMEE Basic Information
- Table 136. SMEE Fully Automatic Wafer Defect Inspection System Product Overview
- Table 137. SMEE Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. SMEE Business Overview
- Table 139. SMEE Recent Developments
- Table 140. Hangzhou Changchuan Technology Basic Information
- Table 141. Hangzhou Changchuan Technology Fully Automatic Wafer Defect Inspection System Product Overview
- Table 142. Hangzhou Changchuan Technology Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 143. Hangzhou Changchuan Technology Business Overview
- Table 144. Hangzhou Changchuan Technology Recent Developments
- Table 145. Wuhan Jingce Electronic Group Basic Information
- Table 146. Wuhan Jingce Electronic Group Fully Automatic Wafer Defect Inspection System Product Overview
- Table 147. Wuhan Jingce Electronic Group Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 148. Wuhan Jingce Electronic Group Business Overview
- Table 149. Wuhan Jingce Electronic Group Recent Developments
- Table 150. Angkun Vision (Beijing) Technology Basic Information
- Table 151. Angkun Vision (Beijing) Technology Fully Automatic Wafer Defect Inspection

System Product Overview

Table 152. Angkun Vision (Beijing) Technology Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 153. Angkun Vision (Beijing) Technology Business Overview

Table 154. Angkun Vision (Beijing) Technology Recent Developments

Table 155. Nanotronics Basic Information

Table 156. Nanotronics Fully Automatic Wafer Defect Inspection System Product Overview

Table 157. Nanotronics Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 158. Nanotronics Business Overview

Table 159. Nanotronics Recent Developments

Table 160. Visiontec Group Basic Information

Table 161. Visiontec Group Fully Automatic Wafer Defect Inspection System Product Overview

Table 162. Visiontec Group Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 163. Visiontec Group Business Overview

Table 164. Visiontec Group Recent Developments

Table 165. Hefei Yuwei Semiconductor Technology Basic Information

Table 166. Hefei Yuwei Semiconductor Technology Fully Automatic Wafer Defect Inspection System Product Overview

Table 167. Hefei Yuwei Semiconductor Technology Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 168. Hefei Yuwei Semiconductor Technology Business Overview

Table 169. Hefei Yuwei Semiconductor Technology Recent Developments

Table 170. Suzhou Secote (Optima) Basic Information

Table 171. Suzhou Secote (Optima) Fully Automatic Wafer Defect Inspection System Product Overview

Table 172. Suzhou Secote (Optima) Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 173. Suzhou Secote (Optima) Business Overview

Table 174. Suzhou Secote (Optima) Recent Developments

Table 175. DJEL Basic Information

Table 176. DJEL Fully Automatic Wafer Defect Inspection System Product Overview

Table 177. DJEL Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 178. DJEL Business Overview

Table 179. DJEL Recent Developments

Table 180. Jiangsu VPTEK Basic Information

Table 181. Jiangsu VPTEK Fully Automatic Wafer Defect Inspection System Product Overview

Table 182. Jiangsu VPTEK Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 183. Jiangsu VPTEK Business Overview

Table 184. Jiangsu VPTEK Recent Developments

Table 185. Ever Red New Technology Basic Information

Table 186. Ever Red New Technology Fully Automatic Wafer Defect Inspection System Product Overview

Table 187. Ever Red New Technology Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 188. Ever Red New Technology Business Overview

Table 189. Ever Red New Technology Recent Developments

Table 190. Confovis Basic Information

Table 191. Confovis Fully Automatic Wafer Defect Inspection System Product Overview

Table 192. Confovis Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 193. Confovis Business Overview

Table 194. Confovis Recent Developments

Table 195. Zhongdao Optoelectronic Basic Information

Table 196. Zhongdao Optoelectronic Fully Automatic Wafer Defect Inspection System Product Overview

Table 197. Zhongdao Optoelectronic Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 198. Zhongdao Optoelectronic Business Overview

Table 199. Zhongdao Optoelectronic Recent Developments

Table 200. Suzhou Xinshi Technology Basic Information

Table 201. Suzhou Xinshi Technology Fully Automatic Wafer Defect Inspection System Product Overview

Table 202. Suzhou Xinshi Technology Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 203. Suzhou Xinshi Technology Business Overview

Table 204. Suzhou Xinshi Technology Recent Developments

Table 205. RSIC scientific instrument (Shanghai) Basic Information

Table 206. RSIC scientific instrument (Shanghai) Fully Automatic Wafer Defect Inspection System Product Overview

Table 207. RSIC scientific instrument (Shanghai) Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 208. RSIC scientific instrument (Shanghai) Business Overview

Table 209. RSIC scientific instrument (Shanghai) Recent Developments

Table 210. Gaoshi Technology (Suzhou) Basic Information

Table 211. Gaoshi Technology (Suzhou) Fully Automatic Wafer Defect Inspection System Product Overview

Table 212. Gaoshi Technology (Suzhou) Fully Automatic Wafer Defect Inspection System Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 213. Gaoshi Technology (Suzhou) Business Overview

Table 214. Gaoshi Technology (Suzhou) Recent Developments

Table 215. Global Fully Automatic Wafer Defect Inspection System Sales Forecast by Region (2026-2035) & (K Units)

Table 216. Global Fully Automatic Wafer Defect Inspection System Market Size Forecast by Region (2026-2035) & (M USD)

Table 217. North America Fully Automatic Wafer Defect Inspection System Sales Forecast by Country (2026-2035) & (K Units)

Table 218. North America Fully Automatic Wafer Defect Inspection System Market Size Forecast by Country (2026-2035) & (M USD)

Table 219. Europe Fully Automatic Wafer Defect Inspection System Sales Forecast by Country (2026-2035) & (K Units)

Table 220. Europe Fully Automatic Wafer Defect Inspection System Market Size Forecast by Country (2026-2035) & (M USD)

Table 221. Asia Pacific Fully Automatic Wafer Defect Inspection System Sales Forecast by Region (2026-2035) & (K Units)

Table 222. Asia Pacific Fully Automatic Wafer Defect Inspection System Market Size Forecast by Region (2026-2035) & (M USD)

Table 223. South America Fully Automatic Wafer Defect Inspection System Sales Forecast by Country (2026-2035) & (K Units)

Table 224. South America Fully Automatic Wafer Defect Inspection System Market Size Forecast by Country (2026-2035) & (M USD)

Table 225. Middle East and Africa Fully Automatic Wafer Defect Inspection System Sales Forecast by Country (2026-2035) & (Units)

Table 226. Middle East and Africa Fully Automatic Wafer Defect Inspection System Market Size Forecast by Country (2026-2035) & (M USD)

Table 227. Global Fully Automatic Wafer Defect Inspection System Sales Forecast by Type (2026-2035) & (K Units)

Table 228. Global Fully Automatic Wafer Defect Inspection System Market Size Forecast by Type (2026-2035) & (M USD)

Table 229. Global Fully Automatic Wafer Defect Inspection System Price Forecast by Type (2026-2035) & (USD/Unit)

Table 230. Global Fully Automatic Wafer Defect Inspection System Sales (K Units) Forecast by Application (2026-2035)

Table 231. Global Fully Automatic Wafer Defect Inspection System Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Fully Automatic Wafer Defect Inspection System
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Fully Automatic Wafer Defect Inspection System Market Size (M USD), 2025-2035
- Figure 5. Global Fully Automatic Wafer Defect Inspection System Market Size (M USD) (2020-2035)
- Figure 6. Global Fully Automatic Wafer Defect Inspection System Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Fully Automatic Wafer Defect Inspection System Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Fully Automatic Wafer Defect Inspection System Product Life Cycle
- Figure 13. Fully Automatic Wafer Defect Inspection System Sales Share by Manufacturers in 2025
- Figure 14. Global Fully Automatic Wafer Defect Inspection System Revenue Share by Manufacturers in 2025
- Figure 15. Fully Automatic Wafer Defect Inspection System Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Fully Automatic Wafer Defect Inspection System Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Fully Automatic Wafer Defect Inspection System Revenue in 2025
- Figure 18. Industry Chain Map of Fully Automatic Wafer Defect Inspection System
- Figure 19. Global Fully Automatic Wafer Defect Inspection System Market PEST Analysis
- Figure 20. Global Fully Automatic Wafer Defect Inspection System Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers

- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Fully Automatic Wafer Defect Inspection System Market Share by Type
- Figure 27. Sales Market Share of Fully Automatic Wafer Defect Inspection System by Type (2020-2025)
- Figure 28. Sales Market Share of Fully Automatic Wafer Defect Inspection System by Type in 2025
- Figure 29. Market Share of Fully Automatic Wafer Defect Inspection System by Type (2020-2025)
- Figure 30. Market Share of Fully Automatic Wafer Defect Inspection System by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Fully Automatic Wafer Defect Inspection System Market Share by Application
- Figure 33. Global Fully Automatic Wafer Defect Inspection System Sales Market Share by Application (2020-2025)
- Figure 34. Global Fully Automatic Wafer Defect Inspection System Sales Market Share by Application in 2025
- Figure 35. Global Fully Automatic Wafer Defect Inspection System Market Share by Application (2020-2025)
- Figure 36. Global Fully Automatic Wafer Defect Inspection System Market Share by Application in 2025
- Figure 37. Global Fully Automatic Wafer Defect Inspection System Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Fully Automatic Wafer Defect Inspection System Sales Market Share by Region (2020-2025)
- Figure 39. Global Fully Automatic Wafer Defect Inspection System Market Size by Region (2020-2025)
- Figure 40. North America Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Fully Automatic Wafer Defect Inspection System Sales Market Share by Country in 2024
- Figure 43. North America Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Fully Automatic Wafer Defect Inspection System Market Size by Country in 2024
- Figure 45. U.S. Fully Automatic Wafer Defect Inspection System Sales and Growth

Rate (2020-2025) & (K Units)

Figure 46. U.S. Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Fully Automatic Wafer Defect Inspection System Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Fully Automatic Wafer Defect Inspection System Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Fully Automatic Wafer Defect Inspection System Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Fully Automatic Wafer Defect Inspection System Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Fully Automatic Wafer Defect Inspection System Sales Market Share by Country in 2024

Figure 53. Europe Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Fully Automatic Wafer Defect Inspection System Market Size by Country in 2024

Figure 55. Germany Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Fully Automatic Wafer Defect Inspection System Sales Market Share by Region in 2024

Figure 67. Asia Pacific Fully Automatic Wafer Defect Inspection System Market Size by Region in 2024

Figure 68. China Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (K Units)

Figure 79. South America Fully Automatic Wafer Defect Inspection System Sales Market Share by Country in 2024

Figure 80. South America Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (M USD)

Figure 81. South America Fully Automatic Wafer Defect Inspection System Market Size by Country in 2024

Figure 82. Brazil Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Fully Automatic Wafer Defect Inspection System Sales and Growth

Rate (2020-2025) & (K Units)

Figure 85. Argentina Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Fully Automatic Wafer Defect Inspection System Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Fully Automatic Wafer Defect Inspection System Market Size by Region in 2024

Figure 92. Saudi Arabia Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Fully Automatic Wafer Defect Inspection System Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Fully Automatic Wafer Defect Inspection System Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Fully Automatic Wafer Defect Inspection System Production Market Share by Region (2020-2025)

Figure 103. North America Fully Automatic Wafer Defect Inspection System Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Fully Automatic Wafer Defect Inspection System Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Fully Automatic Wafer Defect Inspection System Production (K Units) Growth Rate (2020-2025)

Figure 106. China Fully Automatic Wafer Defect Inspection System Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Fully Automatic Wafer Defect Inspection System Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Fully Automatic Wafer Defect Inspection System Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Fully Automatic Wafer Defect Inspection System Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Fully Automatic Wafer Defect Inspection System Market Share Forecast by Type (2026-2035)

Figure 111. Global Fully Automatic Wafer Defect Inspection System Sales Forecast by Application (2026-2035)

Figure 112. Global Fully Automatic Wafer Defect Inspection System Market Share Forecast by Application (2026-2035)

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