

Global Optical Wafer Inspection System Market Growth 2025-2031

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Abstracts

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The global Optical Wafer Inspection System market size is predicted to grow from US\$ 4715 million in 2025 to US\$ 6311 million in 2031; it is expected to grow at a CAGR of 5.0% from 2025 to 2031.

An Optical Wafer Inspection System is a critical piece of equipment used in the semiconductor manufacturing process to inspect silicon wafers for defects. These systems employ optical technologies, such as microscopes, lasers, and cameras, to detect and analyze imperfections on the wafer surface and within the wafer structure. The goal is to identify defects early in the manufacturing process to ensure the quality and reliability of the semiconductor devices that will eventually be produced from these wafers.

The global market for Optical Wafer Inspection Systems is experiencing significant growth, driven by advancements in semiconductor technology, increasing demand for high-performance electronics, and the ongoing miniaturization of electronic components.

Asia-Pacific Dominance: The Asia-Pacific region, particularly China, Taiwan, South Korea, and Japan, dominates the global optical wafer inspection systems market. This is due to the concentration of semiconductor manufacturing facilities in these regions, coupled with significant investments in new production technologies.

North America and Europe: In North America and Europe, the focus is on innovation and the development of advanced semiconductor technologies, driving the demand for

cutting-edge inspection systems in these regions.

LP Information, Inc. (LPI) ' newest research report, the “Optical Wafer Inspection System Industry Forecast” looks at past sales and reviews total world Optical Wafer Inspection System sales in 2024, providing a comprehensive analysis by region and market sector of projected Optical Wafer Inspection System sales for 2025 through 2031. With Optical Wafer Inspection System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Optical Wafer Inspection System industry.

This Insight Report provides a comprehensive analysis of the global Optical Wafer 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 Optical Wafer Inspection System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Optical Wafer Inspection System market.

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

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

Segmentation by Type:

Bright & Dark Field Defect Inspection System

Non-Pattern Surface Inspection System

Macro Defect Inspection System

Segmentation by Application:

4 inch

6 inch

8 inch

12 inch

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

Hitachi High-Tech

NanoSystem Solutions

Onto Innovation

RSIC scientific instrument

Wuhan Jingce Electronic Technology

Hangzhou Changchuan Technology

Shanghai Micro Electronics Equipment (Group)

Skyverse Technology Co., Ltd.

Key Questions Addressed in this Report

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

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

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

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

How does Optical Wafer 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 Optical Wafer Inspection System Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Optical Wafer Inspection System by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Optical Wafer Inspection System by Country/Region, 2020, 2024 & 2031
- 2.2 Optical Wafer Inspection System Segment by Type
 - 2.2.1 Bright & Dark Field Defect Inspection System
 - 2.2.2 Non-Pattern Surface Inspection System
 - 2.2.3 Macro Defect Inspection System
- 2.3 Optical Wafer Inspection System Sales by Type
 - 2.3.1 Global Optical Wafer Inspection System Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Optical Wafer Inspection System Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Optical Wafer Inspection System Sale Price by Type (2020-2025)
- 2.4 Optical Wafer Inspection System Segment by Application
 - 2.4.1 4 inch
 - 2.4.2 6 inch
 - 2.4.3 8 inch
 - 2.4.4 12 inch
 - 2.4.5 Others
- 2.5 Optical Wafer Inspection System Sales by Application
 - 2.5.1 Global Optical Wafer Inspection System Sale Market Share by Application

(2020-2025)

2.5.2 Global Optical Wafer Inspection System Revenue and Market Share by Application (2020-2025)

2.5.3 Global Optical Wafer Inspection System Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Optical Wafer Inspection System Breakdown Data by Company

3.1.1 Global Optical Wafer Inspection System Annual Sales by Company (2020-2025)

3.1.2 Global Optical Wafer Inspection System Sales Market Share by Company (2020-2025)

3.2 Global Optical Wafer Inspection System Annual Revenue by Company (2020-2025)

3.2.1 Global Optical Wafer Inspection System Revenue by Company (2020-2025)

3.2.2 Global Optical Wafer Inspection System Revenue Market Share by Company (2020-2025)

3.3 Global Optical Wafer Inspection System Sale Price by Company

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

3.4.1 Key Manufacturers Optical Wafer Inspection System Product Location Distribution

3.4.2 Players Optical Wafer 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) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

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

4.1 World Historic Optical Wafer Inspection System Market Size by Geographic Region (2020-2025)

4.1.1 Global Optical Wafer Inspection System Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Optical Wafer Inspection System Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Optical Wafer Inspection System Market Size by Country/Region (2020-2025)

4.2.1 Global Optical Wafer Inspection System Annual Sales by Country/Region

(2020-2025)

4.2.2 Global Optical Wafer Inspection System Annual Revenue by Country/Region

(2020-2025)

4.3 Americas Optical Wafer Inspection System Sales Growth

4.4 APAC Optical Wafer Inspection System Sales Growth

4.5 Europe Optical Wafer Inspection System Sales Growth

4.6 Middle East & Africa Optical Wafer Inspection System Sales Growth

5 AMERICAS

5.1 Americas Optical Wafer Inspection System Sales by Country

5.1.1 Americas Optical Wafer Inspection System Sales by Country (2020-2025)

5.1.2 Americas Optical Wafer Inspection System Revenue by Country (2020-2025)

5.2 Americas Optical Wafer Inspection System Sales by Type (2020-2025)

5.3 Americas Optical Wafer Inspection System Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Optical Wafer Inspection System Sales by Region

6.1.1 APAC Optical Wafer Inspection System Sales by Region (2020-2025)

6.1.2 APAC Optical Wafer Inspection System Revenue by Region (2020-2025)

6.2 APAC Optical Wafer Inspection System Sales by Type (2020-2025)

6.3 APAC Optical Wafer Inspection System Sales by Application (2020-2025)

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 Optical Wafer Inspection System by Country

7.1.1 Europe Optical Wafer Inspection System Sales by Country (2020-2025)

- 7.1.2 Europe Optical Wafer Inspection System Revenue by Country (2020-2025)
- 7.2 Europe Optical Wafer Inspection System Sales by Type (2020-2025)
- 7.3 Europe Optical Wafer Inspection System Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Optical Wafer Inspection System by Country
 - 8.1.1 Middle East & Africa Optical Wafer Inspection System Sales by Country (2020-2025)
 - 8.1.2 Middle East & Africa Optical Wafer Inspection System Revenue by Country (2020-2025)
- 8.2 Middle East & Africa Optical Wafer Inspection System Sales by Type (2020-2025)
- 8.3 Middle East & Africa Optical Wafer Inspection System Sales by Application (2020-2025)
- 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 Optical Wafer Inspection System
- 10.3 Manufacturing Process Analysis of Optical Wafer Inspection System
- 10.4 Industry Chain Structure of Optical Wafer Inspection System

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Optical Wafer Inspection System Distributors

11.3 Optical Wafer Inspection System Customer

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

12.1 Global Optical Wafer Inspection System Market Size Forecast by Region

12.1.1 Global Optical Wafer Inspection System Forecast by Region (2026-2031)

12.1.2 Global Optical Wafer Inspection System Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global Optical Wafer Inspection System Forecast by Type (2026-2031)

12.7 Global Optical Wafer Inspection System Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 KLA Corporation

13.1.1 KLA Corporation Company Information

13.1.2 KLA Corporation Optical Wafer Inspection System Product Portfolios and Specifications

13.1.3 KLA Corporation Optical Wafer Inspection System Sales, Revenue, Price and Gross Margin (2020-2025)

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 Optical Wafer Inspection System Product Portfolios and Specifications

13.2.3 Applied Materials Optical Wafer Inspection System Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Applied Materials Main Business Overview

13.2.5 Applied Materials Latest Developments

13.3 Hitachi High-Tech

13.3.1 Hitachi High-Tech Company Information

13.3.2 Hitachi High-Tech Optical Wafer Inspection System Product Portfolios and Specifications

13.3.3 Hitachi High-Tech Optical Wafer Inspection System Sales, Revenue, Price and Gross Margin (2020-2025)

13.3.4 Hitachi High-Tech Main Business Overview

13.3.5 Hitachi High-Tech Latest Developments

13.4 NanoSystem Solutions

13.4.1 NanoSystem Solutions Company Information

13.4.2 NanoSystem Solutions Optical Wafer Inspection System Product Portfolios and Specifications

13.4.3 NanoSystem Solutions Optical Wafer Inspection System Sales, Revenue, Price and Gross Margin (2020-2025)

13.4.4 NanoSystem Solutions Main Business Overview

13.4.5 NanoSystem Solutions Latest Developments

13.5 Onto Innovation

13.5.1 Onto Innovation Company Information

13.5.2 Onto Innovation Optical Wafer Inspection System Product Portfolios and Specifications

13.5.3 Onto Innovation Optical Wafer Inspection System Sales, Revenue, Price and Gross Margin (2020-2025)

13.5.4 Onto Innovation Main Business Overview

13.5.5 Onto Innovation Latest Developments

13.6 RSIC scientific instrument

13.6.1 RSIC scientific instrument Company Information

13.6.2 RSIC scientific instrument Optical Wafer Inspection System Product Portfolios and Specifications

13.6.3 RSIC scientific instrument Optical Wafer Inspection System Sales, Revenue, Price and Gross Margin (2020-2025)

13.6.4 RSIC scientific instrument Main Business Overview

13.6.5 RSIC scientific instrument Latest Developments

13.7 Wuhan Jingce Electronic Technology

13.7.1 Wuhan Jingce Electronic Technology Company Information

13.7.2 Wuhan Jingce Electronic Technology Optical Wafer Inspection System Product Portfolios and Specifications

13.7.3 Wuhan Jingce Electronic Technology Optical Wafer Inspection System Sales, Revenue, Price and Gross Margin (2020-2025)

13.7.4 Wuhan Jingce Electronic Technology Main Business Overview

- 13.7.5 Wuhan Jingce Electronic Technology Latest Developments
- 13.8 Hangzhou Changchuan Technology
 - 13.8.1 Hangzhou Changchuan Technology Company Information
 - 13.8.2 Hangzhou Changchuan Technology Optical Wafer Inspection System Product Portfolios and Specifications
 - 13.8.3 Hangzhou Changchuan Technology Optical Wafer Inspection System Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 Hangzhou Changchuan Technology Main Business Overview
 - 13.8.5 Hangzhou Changchuan Technology Latest Developments
- 13.9 Shanghai Micro Electronics Equipment (Group)
 - 13.9.1 Shanghai Micro Electronics Equipment (Group) Company Information
 - 13.9.2 Shanghai Micro Electronics Equipment (Group) Optical Wafer Inspection System Product Portfolios and Specifications
 - 13.9.3 Shanghai Micro Electronics Equipment (Group) Optical Wafer Inspection System Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 Shanghai Micro Electronics Equipment (Group) Main Business Overview
 - 13.9.5 Shanghai Micro Electronics Equipment (Group) Latest Developments
- 13.10 Skyverse Technology Co., Ltd.
 - 13.10.1 Skyverse Technology Co., Ltd. Company Information
 - 13.10.2 Skyverse Technology Co., Ltd. Optical Wafer Inspection System Product Portfolios and Specifications
 - 13.10.3 Skyverse Technology Co., Ltd. Optical Wafer Inspection System Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.10.4 Skyverse Technology Co., Ltd. Main Business Overview
 - 13.10.5 Skyverse Technology Co., Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

LIST OF TABLES

- Table 1. Optical Wafer Inspection System Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Table 2. Optical Wafer Inspection System Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)
- Table 3. Major Players of Bright & DarkField Defect Inspection System
- Table 4. Major Players of Non-Pattern Surface Inspection System
- Table 5. Major Players of Macro Defect Inspection System
- Table 6. Global Optical Wafer Inspection System Sales by Type (2020-2025) & (Units)

Table 7. Global Optical Wafer Inspection System Sales Market Share byType
(2020-2025)

Table 8. Global Optical Wafer Inspection System Revenue byType (2020-2025) & (\$
million)

Table 9. Global Optical Wafer Inspection System Revenue Market Share byType
(2020-2025)

Table 10. Global Optical Wafer Inspection System Sale Price byType (2020-2025) & (K
US\$/Unit)

Table 11. Global Optical Wafer Inspection System Sale by Application (2020-2025) &
(Units)

Table 12. Global Optical Wafer Inspection System Sale Market Share by Application
(2020-2025)

Table 13. Global Optical Wafer Inspection System Revenue by Application (2020-2025)
& (\$ million)

Table 14. Global Optical Wafer Inspection System Revenue Market Share by
Application (2020-2025)

Table 15. Global Optical Wafer Inspection System Sale Price by Application
(2020-2025) & (K US\$/Unit)

Table 16. Global Optical Wafer Inspection System Sales by Company (2020-2025) &
(Units)

Table 17. Global Optical Wafer Inspection System Sales Market Share by Company
(2020-2025)

Table 18. Global Optical Wafer Inspection System Revenue by Company (2020-2025) &
(\$ millions)

Table 19. Global Optical Wafer Inspection System Revenue Market Share by Company
(2020-2025)

Table 20. Global Optical Wafer Inspection System Sale Price by Company (2020-2025)
& (K US\$/Unit)

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

Table 22. Players Optical Wafer Inspection System Products Offered

Table 23. Optical Wafer Inspection System Concentration Ratio (CR3, CR5 and CR10)
& (2023-2025)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Optical Wafer Inspection System Sales by Geographic Region
(2020-2025) & (Units)

Table 27. Global Optical Wafer Inspection System Sales Market Share Geographic
Region (2020-2025)

Table 28. Global Optical Wafer Inspection System Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 29. Global Optical Wafer Inspection System Revenue Market Share by Geographic Region (2020-2025)

Table 30. Global Optical Wafer Inspection System Sales by Country/Region (2020-2025) & (Units)

Table 31. Global Optical Wafer Inspection System Sales Market Share by Country/Region (2020-2025)

Table 32. Global Optical Wafer Inspection System Revenue by Country/Region (2020-2025) & (\$ millions)

Table 33. Global Optical Wafer Inspection System Revenue Market Share by Country/Region (2020-2025)

Table 34. Americas Optical Wafer Inspection System Sales by Country (2020-2025) & (Units)

Table 35. Americas Optical Wafer Inspection System Sales Market Share by Country (2020-2025)

Table 36. Americas Optical Wafer Inspection System Revenue by Country (2020-2025) & (\$ millions)

Table 37. Americas Optical Wafer Inspection System Sales byType (2020-2025) & (Units)

Table 38. Americas Optical Wafer Inspection System Sales by Application (2020-2025) & (Units)

Table 39. APAC Optical Wafer Inspection System Sales by Region (2020-2025) & (Units)

Table 40. APAC Optical Wafer Inspection System Sales Market Share by Region (2020-2025)

Table 41. APAC Optical Wafer Inspection System Revenue by Region (2020-2025) & (\$ millions)

Table 42. APAC Optical Wafer Inspection System Sales byType (2020-2025) & (Units)

Table 43. APAC Optical Wafer Inspection System Sales by Application (2020-2025) & (Units)

Table 44. Europe Optical Wafer Inspection System Sales by Country (2020-2025) & (Units)

Table 45. Europe Optical Wafer Inspection System Revenue by Country (2020-2025) & (\$ millions)

Table 46. Europe Optical Wafer Inspection System Sales byType (2020-2025) & (Units)

Table 47. Europe Optical Wafer Inspection System Sales by Application (2020-2025) & (Units)

Table 48. Middle East & Africa Optical Wafer Inspection System Sales by Country

(2020-2025) & (Units)

Table 49. Middle East & Africa Optical Wafer Inspection System Revenue Market Share by Country (2020-2025)

Table 50. Middle East & Africa Optical Wafer Inspection System Sales byType (2020-2025) & (Units)

Table 51. Middle East & Africa Optical Wafer Inspection System Sales by Application (2020-2025) & (Units)

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

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

Table 54. Key IndustryTrends of Optical Wafer Inspection System

Table 55. Optical Wafer Inspection System Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. Optical Wafer Inspection System Distributors List

Table 58. Optical Wafer Inspection System Customer List

Table 59. Global Optical Wafer Inspection System SalesForecast by Region (2026-2031) & (Units)

Table 60. Global Optical Wafer Inspection System RevenueForecast by Region (2026-2031) & (\$ millions)

Table 61. Americas Optical Wafer Inspection System SalesForecast by Country (2026-2031) & (Units)

Table 62. Americas Optical Wafer Inspection System Annual RevenueForecast by Country (2026-2031) & (\$ millions)

Table 63. APAC Optical Wafer Inspection System SalesForecast by Region (2026-2031) & (Units)

Table 64. APAC Optical Wafer Inspection System Annual RevenueForecast by Region (2026-2031) & (\$ millions)

Table 65. Europe Optical Wafer Inspection System SalesForecast by Country (2026-2031) & (Units)

Table 66. Europe Optical Wafer Inspection System RevenueForecast by Country (2026-2031) & (\$ millions)

Table 67. Middle East & Africa Optical Wafer Inspection System SalesForecast by Country (2026-2031) & (Units)

Table 68. Middle East & Africa Optical Wafer Inspection System RevenueForecast by Country (2026-2031) & (\$ millions)

Table 69. Global Optical Wafer Inspection System SalesForecast byType (2026-2031) & (Units)

Table 70. Global Optical Wafer Inspection System RevenueForecast byType (2026-2031) & (\$ millions)

Table 71. Global Optical Wafer Inspection System SalesForecast by Application (2026-2031) & (Units)

Table 72. Global Optical Wafer Inspection System RevenueForecast by Application (2026-2031) & (\$ millions)

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

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

Table 75. KLA Corporation Optical Wafer Inspection System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 76. KLA Corporation Main Business

Table 77. KLA Corporation Latest Developments

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

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

Table 80. Applied Materials Optical Wafer Inspection System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 81. Applied Materials Main Business

Table 82. Applied Materials Latest Developments

Table 83. Hitachi High-Tech Basic Information, Optical Wafer Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 84. Hitachi High-Tech Optical Wafer Inspection System Product Portfolios and Specifications

Table 85. Hitachi High-Tech Optical Wafer Inspection System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 86. Hitachi High-Tech Main Business

Table 87. Hitachi High-Tech Latest Developments

Table 88. NanoSystem Solutions Basic Information, Optical Wafer Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 89. NanoSystem Solutions Optical Wafer Inspection System Product Portfolios and Specifications

Table 90. NanoSystem Solutions Optical Wafer Inspection System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 91. NanoSystem Solutions Main Business

Table 92. NanoSystem Solutions Latest Developments

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

Table 94. Onto Innovation Optical Wafer Inspection System Product Portfolios and

Specifications

Table 95. Onto Innovation Optical Wafer Inspection System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 96. Onto Innovation Main Business

Table 97. Onto Innovation Latest Developments

Table 98. RSIC scientific instrument Basic Information, Optical Wafer Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 99. RSIC scientific instrument Optical Wafer Inspection System Product Portfolios and Specifications

Table 100. RSIC scientific instrument Optical Wafer Inspection System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 101. RSIC scientific instrument Main Business

Table 102. RSIC scientific instrument Latest Developments

Table 103. Wuhan Jingce ElectronicTechnology Basic Information, Optical Wafer Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 104. Wuhan Jingce ElectronicTechnology Optical Wafer Inspection System Product Portfolios and Specifications

Table 105. Wuhan Jingce ElectronicTechnology Optical Wafer Inspection System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 106. Wuhan Jingce ElectronicTechnology Main Business

Table 107. Wuhan Jingce ElectronicTechnology Latest Developments

Table 108. Hangzhou ChangchuanTechnology Basic Information, Optical Wafer Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 109. Hangzhou ChangchuanTechnology Optical Wafer Inspection System Product Portfolios and Specifications

Table 110. Hangzhou ChangchuanTechnology Optical Wafer Inspection System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 111. Hangzhou ChangchuanTechnology Main Business

Table 112. Hangzhou ChangchuanTechnology Latest Developments

Table 113. Shanghai Micro Electronics Equipment (Group) Basic Information, Optical Wafer Inspection System Manufacturing Base, Sales Area and Its Competitors

Table 114. Shanghai Micro Electronics Equipment (Group) Optical Wafer Inspection System Product Portfolios and Specifications

Table 115. Shanghai Micro Electronics Equipment (Group) Optical Wafer Inspection System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 116. Shanghai Micro Electronics Equipment (Group) Main Business

Table 117. Shanghai Micro Electronics Equipment (Group) Latest Developments

Table 118. SkyverseTechnology Co., Ltd. Basic Information, Optical Wafer Inspection

System Manufacturing Base, Sales Area and Its Competitors

Table 119. SkyverseTechnology Co., Ltd. Optical Wafer Inspection System Product Portfolios and Specifications

Table 120. SkyverseTechnology Co., Ltd. Optical Wafer Inspection System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2020-2025)

Table 121. SkyverseTechnology Co., Ltd. Main Business

Table 122. SkyverseTechnology Co., Ltd. Latest Developments

LIST OFFIGURES

Figure 1. Picture of Optical Wafer Inspection System

Figure 2. Optical Wafer Inspection System Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Optical Wafer Inspection System Sales Growth Rate 2020-2031 (Units)

Figure 7. Global Optical Wafer Inspection System Revenue Growth Rate 2020-2031 (\$ millions)

Figure 8. Optical Wafer Inspection System Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Figure 9. Optical Wafer Inspection System Sales Market Share by Country/Region (2024)

Figure 10. Optical Wafer Inspection System Sales Market Share by Country/Region (2020, 2024 & 2031)

Figure 11. Product Picture of Bright & DarkField Defect Inspection System

Figure 12. Product Picture of Non-Pattern Surface Inspection System

Figure 13. Product Picture of Macro Defect Inspection System

Figure 14. Global Optical Wafer Inspection System Sales Market Share byType in 2025

Figure 15. Global Optical Wafer Inspection System Revenue Market Share byType (2020-2025)

Figure 16. Optical Wafer Inspection System Consumed in 4 inch

Figure 17. Global Optical Wafer Inspection System Market: 4 inch (2020-2025) & (Units)

Figure 18. Optical Wafer Inspection System Consumed in 6 inch

Figure 19. Global Optical Wafer Inspection System Market: 6 inch (2020-2025) & (Units)

Figure 20. Optical Wafer Inspection System Consumed in 8 inch

Figure 21. Global Optical Wafer Inspection System Market: 8 inch (2020-2025) & (Units)

Figure 22. Optical Wafer Inspection System Consumed in 12 inch

Figure 23. Global Optical Wafer Inspection System Market: 12 inch (2020-2025) & (Units)

Figure 24. Optical Wafer Inspection System Consumed in Others

Figure 25. Global Optical Wafer Inspection System Market: Others (2020-2025) & (Units)

Figure 26. Global Optical Wafer Inspection System Sale Market Share by Application (2024)

Figure 27. Global Optical Wafer Inspection System Revenue Market Share by Application in 2025

Figure 28. Optical Wafer Inspection System Sales by Company in 2025 (Units)

Figure 29. Global Optical Wafer Inspection System Sales Market Share by Company in 2025

Figure 30. Optical Wafer Inspection System Revenue by Company in 2025 (\$ millions)

Figure 31. Global Optical Wafer Inspection System Revenue Market Share by Company in 2025

Figure 32. Global Optical Wafer Inspection System Sales Market Share by Geographic Region (2020-2025)

Figure 33. Global Optical Wafer Inspection System Revenue Market Share by Geographic Region in 2025

Figure 34. Americas Optical Wafer Inspection System Sales 2020-2025 (Units)

Figure 35. Americas Optical Wafer Inspection System Revenue 2020-2025 (\$ millions)

Figure 36. APAC Optical Wafer Inspection System Sales 2020-2025 (Units)

Figure 37. APAC Optical Wafer Inspection System Revenue 2020-2025 (\$ millions)

Figure 38. Europe Optical Wafer Inspection System Sales 2020-2025 (Units)

Figure 39. Europe Optical Wafer Inspection System Revenue 2020-2025 (\$ millions)

Figure 40. Middle East & Africa Optical Wafer Inspection System Sales 2020-2025 (Units)

Figure 41. Middle East & Africa Optical Wafer Inspection System Revenue 2020-2025 (\$ millions)

Figure 42. Americas Optical Wafer Inspection System Sales Market Share by Country in 2025

Figure 43. Americas Optical Wafer Inspection System Revenue Market Share by Country (2020-2025)

Figure 44. Americas Optical Wafer Inspection System Sales Market Share by Type (2020-2025)

Figure 45. Americas Optical Wafer Inspection System Sales Market Share by Application (2020-2025)

Figure 46. United States Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 47. Canada Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 48. Mexico Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 49. Brazil Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 50. APAC Optical Wafer Inspection System Sales Market Share by Region in 2025

Figure 51. APAC Optical Wafer Inspection System Revenue Market Share by Region (2020-2025)

Figure 52. APAC Optical Wafer Inspection System Sales Market Share byType (2020-2025)

Figure 53. APAC Optical Wafer Inspection System Sales Market Share by Application (2020-2025)

Figure 54. China Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 55. Japan Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 56. South Korea Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 57. Southeast Asia Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 58. India Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 59. Australia Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 60. ChinaTaiwan Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 61. Europe Optical Wafer Inspection System Sales Market Share by Country in 2025

Figure 62. Europe Optical Wafer Inspection System Revenue Market Share by Country (2020-2025)

Figure 63. Europe Optical Wafer Inspection System Sales Market Share byType (2020-2025)

Figure 64. Europe Optical Wafer Inspection System Sales Market Share by Application (2020-2025)

Figure 65. Germany Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 66. France Optical Wafer Inspection System Revenue Growth 2020-2025 (\$

millions)

Figure 67. UK Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 68. Italy Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 69. Russia Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 70. Middle East & Africa Optical Wafer Inspection System Sales Market Share by Country (2020-2025)

Figure 71. Middle East & Africa Optical Wafer Inspection System Sales Market Share byType (2020-2025)

Figure 72. Middle East & Africa Optical Wafer Inspection System Sales Market Share by Application (2020-2025)

Figure 73. Egypt Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 74. South Africa Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 75. Israel Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 76. Turkey Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 77. GCC Countries Optical Wafer Inspection System Revenue Growth 2020-2025 (\$ millions)

Figure 78. Manufacturing Cost Structure Analysis of Optical Wafer Inspection System in 2025

Figure 79. Manufacturing Process Analysis of Optical Wafer Inspection System

Figure 80. Industry Chain Structure of Optical Wafer Inspection System

Figure 81. Channels of Distribution

Figure 82. Global Optical Wafer Inspection System Sales MarketForecast by Region (2026-2031)

Figure 83. Global Optical Wafer Inspection System Revenue Market ShareForecast by Region (2026-2031)

Figure 84. Global Optical Wafer Inspection System Sales Market ShareForecast byType (2026-2031)

Figure 85. Global Optical Wafer Inspection System Revenue Market ShareForecast byType (2026-2031)

Figure 86. Global Optical Wafer Inspection System Sales Market ShareForecast by Application (2026-2031)

Figure 87. Global Optical Wafer Inspection System Revenue Market ShareForecast by Application (2026-2031)

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