

Global X-Ray Defect Inspection for Semiconductor Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G66622A196FEEN.html>

Date: June 2026

Pages: 106

Price: US\$ 4,480.00 (Single User License)

ID: G66622A196FEEN

Abstracts

The global X-Ray Defect Inspection for Semiconductor market size is expected to reach \$ 1008 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

In 2025, global x-Ray defect inspection for semiconductor production reached approximately 688 units, the average price is 980 k usd/unit. X-Ray defect inspection for semiconductor is a precision inspection method that uses X-ray fluoroscopy technology to non-destructively inspect the internal structure of semiconductor chips to find and locate their internal defects. The principle is to transmit X-rays through the packaged chip, and the attenuation degree of the rays is different due to the difference in material density, so as to form a two-dimensional or three-dimensional image of the internal structure on the detector. This method can effectively detect internal problems that cannot be detected by traditional optical inspection, such as wafer bonding voids, solder joints, wire fractures, insufficient filling of through silicon vias, and cracks and delamination in the packaging layer. It is a key technical link to ensure chip reliability, perform failure analysis, and improve the yield of advanced packaging processes.

Market Concentration and Key Players:

Internationally, the market concentration of semiconductor X-ray defect detection is relatively high, mainly concentrated in developed countries in Europe and America. For example, Bruker and Nordson and other large manufacturers; from the domestic point of view, semiconductor X-ray defect detection still has a lot of room for development.

Manufacturing Processes and Market Trends:

The manufacturing technology of semiconductor X-ray defect inspection equipment is a system engineering integrating high-precision machinery, advanced ray source and detector technology and complex software algorithm. The core lies in the manufacture of microfocus ray sources capable of producing stable high-intensity X-rays, which depend on special cathode materials and precision vacuum packaging processes. The fabrication of high-resolution flat panel detectors is also critical, requiring the precise combination of scintillator materials with large-scale sensor arrays to capture tiny signals. The integration of the whole machine requires extremely high mechanical stability and motion control accuracy to ensure that the sample stage can move and rotate accurately in the micron or even nanometer level in multiple axes. Finally, powerful 3D reconstruction and intelligent analysis software is the 'brain' of the device, and its development involves extensive image processing and deep optimization of artificial intelligence algorithms.

Current market trends are strongly driven by cutting-edge demand from the semiconductor industry, with technology evolving towards higher resolution, faster inspection and more intelligent analysis capabilities. In order to cope with the complex structure of through-silicon vias and stacked chips in advanced packages, the penetration ability and imaging accuracy of devices continue to improve. Deep integration of artificial intelligence and machine learning has become the standard direction, and automatic recognition and classification of defect patterns through algorithms has significantly improved detection efficiency and accuracy. On the other hand, equipment is increasingly integrated from offline laboratories to online or near-line inspection scenarios to meet the needs of real-time process control and yield monitoring in intelligent manufacturing. With the popularization of more diversified devices such as compound semiconductors and micro-electronic mechanical systems, the application range of detection equipment is expanding continuously, and its development closely follows the general trend of semiconductor technology evolution to smaller size, higher density and three-dimensional integration.

This report studies the global X-Ray Defect Inspection for Semiconductor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for X-Ray Defect Inspection for Semiconductor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of X-Ray Defect Inspection for Semiconductor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global X-Ray Defect Inspection for Semiconductor total production and demand, 2021-2032, (K Units)

Global X-Ray Defect Inspection for Semiconductor total production value, 2021-2032, (USD Million)

Global X-Ray Defect Inspection for Semiconductor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global X-Ray Defect Inspection for Semiconductor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: X-Ray Defect Inspection for Semiconductor domestic production, consumption, key domestic manufacturers and share

Global X-Ray Defect Inspection for Semiconductor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global X-Ray Defect Inspection for Semiconductor production by Theory, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global X-Ray Defect Inspection for Semiconductor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global X-Ray Defect Inspection for Semiconductor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bruker (USA), Nordson (USA), Nikon, Rigaku (Japan), Viscom (Germany), Unicomp Technology (China), SEC Co., Ltd (Korea), Comet Yxlon, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World X-Ray Defect Inspection for Semiconductor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K US\$/Unit) by manufacturer, by Theory, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the

forecast year.

Global X-Ray Defect Inspection for Semiconductor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global X-Ray Defect Inspection for Semiconductor Market, Segmentation by Theory:

2D

3D

Global X-Ray Defect Inspection for Semiconductor Market, Segmentation by Structure:

Inline

Offline

Global X-Ray Defect Inspection for Semiconductor Market, Segmentation by Automation:

Semi-automatic

Full-automatic

Global X-Ray Defect Inspection for Semiconductor Market, Segmentation by Application:

Impurity Analysis

Solder Joint inspection

Others

Companies Profiled:

Bruker (USA)

Nordson (USA)

Nikon

Rigaku (Japan)

Viscom (Germany)

Unicomp Technology (China)

SEC Co., Ltd (Korea)

Comet Yxlon

Key Questions Answered:

1. How big is the global X-Ray Defect Inspection for Semiconductor market?
2. What is the demand of the global X-Ray Defect Inspection for Semiconductor market?
3. What is the year over year growth of the global X-Ray Defect Inspection for Semiconductor market?

4. What is the production and production value of the global X-Ray Defect Inspection for Semiconductor market?
5. Who are the key producers in the global X-Ray Defect Inspection for Semiconductor market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 X-Ray Defect Inspection for Semiconductor Introduction
- 1.2 World X-Ray Defect Inspection for Semiconductor Supply & Forecast
 - 1.2.1 World X-Ray Defect Inspection for Semiconductor Production Value (2021 & 2025 & 2032)
 - 1.2.2 World X-Ray Defect Inspection for Semiconductor Production (2021-2032)
 - 1.2.3 World X-Ray Defect Inspection for Semiconductor Pricing Trends (2021-2032)
- 1.3 World X-Ray Defect Inspection for Semiconductor Production by Region (Based on Production Site)
 - 1.3.1 World X-Ray Defect Inspection for Semiconductor Production Value by Region (2021-2032)
 - 1.3.2 World X-Ray Defect Inspection for Semiconductor Production by Region (2021-2032)
 - 1.3.3 World X-Ray Defect Inspection for Semiconductor Average Price by Region (2021-2032)
 - 1.3.4 North America X-Ray Defect Inspection for Semiconductor Production (2021-2032)
 - 1.3.5 Europe X-Ray Defect Inspection for Semiconductor Production (2021-2032)
 - 1.3.6 Asia-Pacific X-Ray Defect Inspection for Semiconductor Production (2021-2032)
 - 1.3.7 Latin America X-Ray Defect Inspection for Semiconductor Production (2021-2032)
 - 1.3.8 Middle East & Africa X-Ray Defect Inspection for Semiconductor Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 X-Ray Defect Inspection for Semiconductor Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 X-Ray Defect Inspection for Semiconductor Major Market Trends

2 DEMAND SUMMARY

- 2.1 World X-Ray Defect Inspection for Semiconductor Demand (2021-2032)
- 2.2 World X-Ray Defect Inspection for Semiconductor Consumption by Region
 - 2.2.1 World X-Ray Defect Inspection for Semiconductor Consumption by Region (2021-2026)
 - 2.2.2 World X-Ray Defect Inspection for Semiconductor Consumption Forecast by Region (2027-2032)
- 2.3 United States X-Ray Defect Inspection for Semiconductor Consumption

(2021-2032)

2.4 China X-Ray Defect Inspection for Semiconductor Consumption (2021-2032)

2.5 Europe X-Ray Defect Inspection for Semiconductor Consumption (2021-2032)

2.6 Japan X-Ray Defect Inspection for Semiconductor Consumption (2021-2032)

2.7 South Korea X-Ray Defect Inspection for Semiconductor Consumption (2021-2032)

2.8 ASEAN X-Ray Defect Inspection for Semiconductor Consumption (2021-2032)

2.9 India X-Ray Defect Inspection for Semiconductor Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World X-Ray Defect Inspection for Semiconductor Production Value by Manufacturer (2021-2026)

3.2 World X-Ray Defect Inspection for Semiconductor Production by Manufacturer (2021-2026)

3.3 World X-Ray Defect Inspection for Semiconductor Average Price by Manufacturer (2021-2026)

3.4 X-Ray Defect Inspection for Semiconductor Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global X-Ray Defect Inspection for Semiconductor Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for X-Ray Defect Inspection for Semiconductor in 2025

3.5.3 Global Concentration Ratios (CR8) for X-Ray Defect Inspection for Semiconductor in 2025

3.6 X-Ray Defect Inspection for Semiconductor Market: Overall Company Footprint Analysis

3.6.1 X-Ray Defect Inspection for Semiconductor Market: Region Footprint

3.6.2 X-Ray Defect Inspection for Semiconductor Market: Company Product Type Footprint

3.6.3 X-Ray Defect Inspection for Semiconductor Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: X-Ray Defect Inspection for Semiconductor Production Value Comparison

4.1.1 United States VS China: X-Ray Defect Inspection for Semiconductor Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: X-Ray Defect Inspection for Semiconductor Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: X-Ray Defect Inspection for Semiconductor Production Comparison

4.2.1 United States VS China: X-Ray Defect Inspection for Semiconductor Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: X-Ray Defect Inspection for Semiconductor Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: X-Ray Defect Inspection for Semiconductor Consumption Comparison

4.3.1 United States VS China: X-Ray Defect Inspection for Semiconductor Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: X-Ray Defect Inspection for Semiconductor Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based X-Ray Defect Inspection for Semiconductor Manufacturers and Market Share, 2021-2026

4.4.1 United States Based X-Ray Defect Inspection for Semiconductor Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Value (2021-2026)

4.4.3 United States Based Manufacturers X-Ray Defect Inspection for Semiconductor Production (2021-2026)

4.5 China Based X-Ray Defect Inspection for Semiconductor Manufacturers and Market Share

4.5.1 China Based X-Ray Defect Inspection for Semiconductor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Value (2021-2026)

4.5.3 China Based Manufacturers X-Ray Defect Inspection for Semiconductor Production (2021-2026)

4.6 Rest of World Based X-Ray Defect Inspection for Semiconductor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based X-Ray Defect Inspection for Semiconductor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers X-Ray Defect Inspection for Semiconductor Production (2021-2026)

5 MARKET ANALYSIS BY THEORY

5.1 World X-Ray Defect Inspection for Semiconductor Market Size Overview by Theory: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Theory

5.2.1 2D

5.2.2 3D

5.3 Market Segment by Theory

5.3.1 World X-Ray Defect Inspection for Semiconductor Production by Theory (2021-2032)

5.3.2 World X-Ray Defect Inspection for Semiconductor Production Value by Theory (2021-2032)

5.3.3 World X-Ray Defect Inspection for Semiconductor Average Price by Theory (2021-2032)

6 MARKET ANALYSIS BY STRUCTURE

6.1 World X-Ray Defect Inspection for Semiconductor Market Size Overview by Structure: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Structure

6.2.1 Inline

6.2.2 Offline

6.3 Market Segment by Structure

6.3.1 World X-Ray Defect Inspection for Semiconductor Production by Structure (2021-2032)

6.3.2 World X-Ray Defect Inspection for Semiconductor Production Value by Structure (2021-2032)

6.3.3 World X-Ray Defect Inspection for Semiconductor Average Price by Structure (2021-2032)

7 MARKET ANALYSIS BY AUTOMATION

7.1 World X-Ray Defect Inspection for Semiconductor Market Size Overview by Automation: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Automation

7.2.1 Semi-automatic

7.2.2 Full-automatic

7.3 Market Segment by Automation

7.3.1 World X-Ray Defect Inspection for Semiconductor Production by Automation (2021-2032)

7.3.2 World X-Ray Defect Inspection for Semiconductor Production Value by Automation (2021-2032)

7.3.3 World X-Ray Defect Inspection for Semiconductor Average Price by Automation (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World X-Ray Defect Inspection for Semiconductor Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Impurity Analysis

8.2.2 Solder Joint inspection

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World X-Ray Defect Inspection for Semiconductor Production by Application (2021-2032)

8.3.2 World X-Ray Defect Inspection for Semiconductor Production Value by Application (2021-2032)

8.3.3 World X-Ray Defect Inspection for Semiconductor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Bruker (USA)

9.1.1 Bruker (USA) Details

9.1.2 Bruker (USA) Major Business

9.1.3 Bruker (USA) X-Ray Defect Inspection for Semiconductor Product and Services

9.1.4 Bruker (USA) X-Ray Defect Inspection for Semiconductor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Bruker (USA) Recent Developments/Updates

9.1.6 Bruker (USA) Competitive Strengths & Weaknesses

9.2 Nordson (USA)

9.2.1 Nordson (USA) Details

9.2.2 Nordson (USA) Major Business

9.2.3 Nordson (USA) X-Ray Defect Inspection for Semiconductor Product and Services

9.2.4 Nordson (USA) X-Ray Defect Inspection for Semiconductor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Nordson (USA) Recent Developments/Updates

9.2.6 Nordson (USA) Competitive Strengths & Weaknesses

9.3 Nikon

9.3.1 Nikon Details

9.3.2 Nikon Major Business

9.3.3 Nikon X-Ray Defect Inspection for Semiconductor Product and Services

9.3.4 Nikon X-Ray Defect Inspection for Semiconductor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Nikon Recent Developments/Updates

9.3.6 Nikon Competitive Strengths & Weaknesses

9.4 Rigaku (Japan)

9.4.1 Rigaku (Japan) Details

9.4.2 Rigaku (Japan) Major Business

9.4.3 Rigaku (Japan) X-Ray Defect Inspection for Semiconductor Product and Services

9.4.4 Rigaku (Japan) X-Ray Defect Inspection for Semiconductor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Rigaku (Japan) Recent Developments/Updates

9.4.6 Rigaku (Japan) Competitive Strengths & Weaknesses

9.5 Viscom (Germany)

9.5.1 Viscom (Germany) Details

9.5.2 Viscom (Germany) Major Business

9.5.3 Viscom (Germany) X-Ray Defect Inspection for Semiconductor Product and Services

9.5.4 Viscom (Germany) X-Ray Defect Inspection for Semiconductor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Viscom (Germany) Recent Developments/Updates

9.5.6 Viscom (Germany) Competitive Strengths & Weaknesses

9.6 Unicomp Technology (China)

9.6.1 Unicomp Technology (China) Details

9.6.2 Unicomp Technology (China) Major Business

9.6.3 Unicomp Technology (China) X-Ray Defect Inspection for Semiconductor Product and Services

9.6.4 Unicomp Technology (China) X-Ray Defect Inspection for Semiconductor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Unicomp Technology (China) Recent Developments/Updates

9.6.6 Unicom Technology (China) Competitive Strengths & Weaknesses

9.7 SEC Co., Ltd (Korea)

9.7.1 SEC Co., Ltd (Korea) Details

9.7.2 SEC Co., Ltd (Korea) Major Business

9.7.3 SEC Co., Ltd (Korea) X-Ray Defect Inspection for Semiconductor Product and Services

9.7.4 SEC Co., Ltd (Korea) X-Ray Defect Inspection for Semiconductor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 SEC Co., Ltd (Korea) Recent Developments/Updates

9.7.6 SEC Co., Ltd (Korea) Competitive Strengths & Weaknesses

9.8 Comet Yxlon

9.8.1 Comet Yxlon Details

9.8.2 Comet Yxlon Major Business

9.8.3 Comet Yxlon X-Ray Defect Inspection for Semiconductor Product and Services

9.8.4 Comet Yxlon X-Ray Defect Inspection for Semiconductor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Comet Yxlon Recent Developments/Updates

9.8.6 Comet Yxlon Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 X-Ray Defect Inspection for Semiconductor Industry Chain

10.2 X-Ray Defect Inspection for Semiconductor Upstream Analysis

10.2.1 X-Ray Defect Inspection for Semiconductor Core Raw Materials

10.2.2 Main Manufacturers of X-Ray Defect Inspection for Semiconductor Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 X-Ray Defect Inspection for Semiconductor Production Mode

10.6 X-Ray Defect Inspection for Semiconductor Procurement Model

10.7 X-Ray Defect Inspection for Semiconductor Industry Sales Model and Sales Channels

10.7.1 X-Ray Defect Inspection for Semiconductor Sales Model

10.7.2 X-Ray Defect Inspection for Semiconductor Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World X-Ray Defect Inspection for Semiconductor Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World X-Ray Defect Inspection for Semiconductor Production Value by Region (2021-2026) & (USD Million)

Table 3. World X-Ray Defect Inspection for Semiconductor Production Value by Region (2027-2032) & (USD Million)

Table 4. World X-Ray Defect Inspection for Semiconductor Production Value Market Share by Region (2021-2026)

Table 5. World X-Ray Defect Inspection for Semiconductor Production Value Market Share by Region (2027-2032)

Table 6. World X-Ray Defect Inspection for Semiconductor Production by Region (2021-2026) & (K Units)

Table 7. World X-Ray Defect Inspection for Semiconductor Production by Region (2027-2032) & (K Units)

Table 8. World X-Ray Defect Inspection for Semiconductor Production Market Share by Region (2021-2026)

Table 9. World X-Ray Defect Inspection for Semiconductor Production Market Share by Region (2027-2032)

Table 10. World X-Ray Defect Inspection for Semiconductor Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World X-Ray Defect Inspection for Semiconductor Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. X-Ray Defect Inspection for Semiconductor Major Market Trends

Table 13. World X-Ray Defect Inspection for Semiconductor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World X-Ray Defect Inspection for Semiconductor Consumption by Region (2021-2026) & (K Units)

Table 15. World X-Ray Defect Inspection for Semiconductor Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World X-Ray Defect Inspection for Semiconductor Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key X-Ray Defect Inspection for Semiconductor Producers in 2025

Table 18. World X-Ray Defect Inspection for Semiconductor Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key X-Ray Defect Inspection for Semiconductor Producers in 2025

Table 20. World X-Ray Defect Inspection for Semiconductor Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global X-Ray Defect Inspection for Semiconductor Company Evaluation Quadrant

Table 22. World X-Ray Defect Inspection for Semiconductor Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and X-Ray Defect Inspection for Semiconductor Production Site of Key Manufacturer

Table 24. X-Ray Defect Inspection for Semiconductor Market: Company Product Type Footprint

Table 25. X-Ray Defect Inspection for Semiconductor Market: Company Product Application Footprint

Table 26. X-Ray Defect Inspection for Semiconductor Competitive Factors

Table 27. X-Ray Defect Inspection for Semiconductor New Entrant and Capacity Expansion Plans

Table 28. X-Ray Defect Inspection for Semiconductor Mergers & Acquisitions Activity

Table 29. United States VS China X-Ray Defect Inspection for Semiconductor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China X-Ray Defect Inspection for Semiconductor Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China X-Ray Defect Inspection for Semiconductor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based X-Ray Defect Inspection for Semiconductor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers X-Ray Defect Inspection for Semiconductor Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Market Share (2021-2026)

Table 37. China Based X-Ray Defect Inspection for Semiconductor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers X-Ray Defect Inspection for Semiconductor

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers X-Ray Defect Inspection for Semiconductor Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Market Share (2021-2026)

Table 42. Rest of World Based X-Ray Defect Inspection for Semiconductor Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers X-Ray Defect Inspection for Semiconductor Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Market Share (2021-2026)

Table 47. World X-Ray Defect Inspection for Semiconductor Production Value by Theory, (USD Million), 2021 & 2025 & 2032

Table 48. World X-Ray Defect Inspection for Semiconductor Production by Theory (2021-2026) & (K Units)

Table 49. World X-Ray Defect Inspection for Semiconductor Production by Theory (2027-2032) & (K Units)

Table 50. World X-Ray Defect Inspection for Semiconductor Production Value by Theory (2021-2026) & (USD Million)

Table 51. World X-Ray Defect Inspection for Semiconductor Production Value by Theory (2027-2032) & (USD Million)

Table 52. World X-Ray Defect Inspection for Semiconductor Average Price by Theory (2021-2026) & (K US\$/Unit)

Table 53. World X-Ray Defect Inspection for Semiconductor Average Price by Theory (2027-2032) & (K US\$/Unit)

Table 54. World X-Ray Defect Inspection for Semiconductor Production Value by Structure, (USD Million), 2021 & 2025 & 2032

Table 55. World X-Ray Defect Inspection for Semiconductor Production by Structure (2021-2026) & (K Units)

Table 56. World X-Ray Defect Inspection for Semiconductor Production by Structure (2027-2032) & (K Units)

Table 57. World X-Ray Defect Inspection for Semiconductor Production Value by Structure (2021-2026) & (USD Million)

Table 58. World X-Ray Defect Inspection for Semiconductor Production Value by Structure (2027-2032) & (USD Million)

Table 59. World X-Ray Defect Inspection for Semiconductor Average Price by Structure (2021-2026) & (K US\$/Unit)

Table 60. World X-Ray Defect Inspection for Semiconductor Average Price by Structure (2027-2032) & (K US\$/Unit)

Table 61. World X-Ray Defect Inspection for Semiconductor Production Value by Automation, (USD Million), 2021 & 2025 & 2032

Table 62. World X-Ray Defect Inspection for Semiconductor Production by Automation (2021-2026) & (K Units)

Table 63. World X-Ray Defect Inspection for Semiconductor Production by Automation (2027-2032) & (K Units)

Table 64. World X-Ray Defect Inspection for Semiconductor Production Value by Automation (2021-2026) & (USD Million)

Table 65. World X-Ray Defect Inspection for Semiconductor Production Value by Automation (2027-2032) & (USD Million)

Table 66. World X-Ray Defect Inspection for Semiconductor Average Price by Automation (2021-2026) & (K US\$/Unit)

Table 67. World X-Ray Defect Inspection for Semiconductor Average Price by Automation (2027-2032) & (K US\$/Unit)

Table 68. World X-Ray Defect Inspection for Semiconductor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World X-Ray Defect Inspection for Semiconductor Production by Application (2021-2026) & (K Units)

Table 70. World X-Ray Defect Inspection for Semiconductor Production by Application (2027-2032) & (K Units)

Table 71. World X-Ray Defect Inspection for Semiconductor Production Value by Application (2021-2026) & (USD Million)

Table 72. World X-Ray Defect Inspection for Semiconductor Production Value by Application (2027-2032) & (USD Million)

Table 73. World X-Ray Defect Inspection for Semiconductor Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World X-Ray Defect Inspection for Semiconductor Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Bruker (USA) Basic Information, Manufacturing Base and Competitors

Table 76. Bruker (USA) Major Business

Table 77. Bruker (USA) X-Ray Defect Inspection for Semiconductor Product and Services

Table 78. Bruker (USA) X-Ray Defect Inspection for Semiconductor Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Bruker (USA) Recent Developments/Updates
Table 80. Bruker (USA) Competitive Strengths & Weaknesses
Table 81. Nordson (USA) Basic Information, Manufacturing Base and Competitors
Table 82. Nordson (USA) Major Business
Table 83. Nordson (USA) X-Ray Defect Inspection for Semiconductor Product and Services
Table 84. Nordson (USA) X-Ray Defect Inspection for Semiconductor Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Nordson (USA) Recent Developments/Updates
Table 86. Nordson (USA) Competitive Strengths & Weaknesses
Table 87. Nikon Basic Information, Manufacturing Base and Competitors
Table 88. Nikon Major Business
Table 89. Nikon X-Ray Defect Inspection for Semiconductor Product and Services
Table 90. Nikon X-Ray Defect Inspection for Semiconductor Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Nikon Recent Developments/Updates
Table 92. Nikon Competitive Strengths & Weaknesses
Table 93. Rigaku (Japan) Basic Information, Manufacturing Base and Competitors
Table 94. Rigaku (Japan) Major Business
Table 95. Rigaku (Japan) X-Ray Defect Inspection for Semiconductor Product and Services
Table 96. Rigaku (Japan) X-Ray Defect Inspection for Semiconductor Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Rigaku (Japan) Recent Developments/Updates
Table 98. Rigaku (Japan) Competitive Strengths & Weaknesses
Table 99. Viscom (Germany) Basic Information, Manufacturing Base and Competitors
Table 100. Viscom (Germany) Major Business
Table 101. Viscom (Germany) X-Ray Defect Inspection for Semiconductor Product and Services
Table 102. Viscom (Germany) X-Ray Defect Inspection for Semiconductor Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Viscom (Germany) Recent Developments/Updates
Table 104. Viscom (Germany) Competitive Strengths & Weaknesses
Table 105. Unicomp Technology (China) Basic Information, Manufacturing Base and Competitors

Table 106. Unicom Technology (China) Major Business

Table 107. Unicom Technology (China) X-Ray Defect Inspection for Semiconductor Product and Services

Table 108. Unicom Technology (China) X-Ray Defect Inspection for Semiconductor Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Unicom Technology (China) Recent Developments/Updates

Table 110. Unicom Technology (China) Competitive Strengths & Weaknesses

Table 111. SEC Co., Ltd (Korea) Basic Information, Manufacturing Base and Competitors

Table 112. SEC Co., Ltd (Korea) Major Business

Table 113. SEC Co., Ltd (Korea) X-Ray Defect Inspection for Semiconductor Product and Services

Table 114. SEC Co., Ltd (Korea) X-Ray Defect Inspection for Semiconductor Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. SEC Co., Ltd (Korea) Recent Developments/Updates

Table 116. SEC Co., Ltd (Korea) Competitive Strengths & Weaknesses

Table 117. Comet Yxlon Basic Information, Manufacturing Base and Competitors

Table 118. Comet Yxlon Major Business

Table 119. Comet Yxlon X-Ray Defect Inspection for Semiconductor Product and Services

Table 120. Comet Yxlon X-Ray Defect Inspection for Semiconductor Production (K Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Comet Yxlon Recent Developments/Updates

Table 122. Comet Yxlon Competitive Strengths & Weaknesses

Table 123. Global Key Players of X-Ray Defect Inspection for Semiconductor Upstream (Raw Materials)

Table 124. Global X-Ray Defect Inspection for Semiconductor Typical Customers

Table 125. X-Ray Defect Inspection for Semiconductor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. X-Ray Defect Inspection for Semiconductor Picture

Figure 2. World X-Ray Defect Inspection for Semiconductor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World X-Ray Defect Inspection for Semiconductor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World X-Ray Defect Inspection for Semiconductor Production (2021-2032) & (K Units)

Figure 5. World X-Ray Defect Inspection for Semiconductor Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World X-Ray Defect Inspection for Semiconductor Production Value Market Share by Region (2021-2032)

Figure 7. World X-Ray Defect Inspection for Semiconductor Production Market Share by Region (2021-2032)

Figure 8. North America X-Ray Defect Inspection for Semiconductor Production (2021-2032) & (K Units)

Figure 9. Europe X-Ray Defect Inspection for Semiconductor Production (2021-2032) & (K Units)

Figure 10. Asia-Pacific X-Ray Defect Inspection for Semiconductor Production (2021-2032) & (K Units)

Figure 11. Latin America X-Ray Defect Inspection for Semiconductor Production (2021-2032) & (K Units)

Figure 12. Middle East & Africa X-Ray Defect Inspection for Semiconductor Production (2021-2032) & (K Units)

Figure 13. X-Ray Defect Inspection for Semiconductor Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World X-Ray Defect Inspection for Semiconductor Consumption (2021-2032) & (K Units)

Figure 16. World X-Ray Defect Inspection for Semiconductor Consumption Market Share by Region (2021-2032)

Figure 17. United States X-Ray Defect Inspection for Semiconductor Consumption (2021-2032) & (K Units)

Figure 18. China X-Ray Defect Inspection for Semiconductor Consumption (2021-2032) & (K Units)

Figure 19. Europe X-Ray Defect Inspection for Semiconductor Consumption (2021-2032) & (K Units)

Figure 20. Japan X-Ray Defect Inspection for Semiconductor Consumption (2021-2032) & (K Units)

Figure 21. South Korea X-Ray Defect Inspection for Semiconductor Consumption (2021-2032) & (K Units)

Figure 22. ASEAN X-Ray Defect Inspection for Semiconductor Consumption (2021-2032) & (K Units)

Figure 23. India X-Ray Defect Inspection for Semiconductor Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of X-Ray Defect Inspection for Semiconductor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for X-Ray Defect Inspection for Semiconductor Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for X-Ray Defect Inspection for Semiconductor Markets in 2025

Figure 27. United States VS China: X-Ray Defect Inspection for Semiconductor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: X-Ray Defect Inspection for Semiconductor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: X-Ray Defect Inspection for Semiconductor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Market Share 2025

Figure 31. China Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Market Share 2025

Figure 32. Rest of World Based Manufacturers X-Ray Defect Inspection for Semiconductor Production Market Share 2025

Figure 33. World X-Ray Defect Inspection for Semiconductor Production Value by Theory, (USD Million), 2021 & 2025 & 2032

Figure 34. World X-Ray Defect Inspection for Semiconductor Production Value Market Share by Theory in 2025

Figure 35. 2D

Figure 36. 3D

Figure 37. World X-Ray Defect Inspection for Semiconductor Production Market Share by Theory (2021-2032)

Figure 38. World X-Ray Defect Inspection for Semiconductor Production Value Market Share by Theory (2021-2032)

Figure 39. World X-Ray Defect Inspection for Semiconductor Average Price by Theory (2021-2032) & (K US\$/Unit)

Figure 40. World X-Ray Defect Inspection for Semiconductor Production Value by

Structure, (USD Million), 2021 & 2025 & 2032

Figure 41. World X-Ray Defect Inspection for Semiconductor Production Value Market Share by Structure in 2025

Figure 42. Inline

Figure 43. Offline

Figure 44. World X-Ray Defect Inspection for Semiconductor Production Market Share by Structure (2021-2032)

Figure 45. World X-Ray Defect Inspection for Semiconductor Production Value Market Share by Structure (2021-2032)

Figure 46. World X-Ray Defect Inspection for Semiconductor Average Price by Structure (2021-2032) & (K US\$/Unit)

Figure 47. World X-Ray Defect Inspection for Semiconductor Production Value by Automation, (USD Million), 2021 & 2025 & 2032

Figure 48. World X-Ray Defect Inspection for Semiconductor Production Value Market Share by Automation in 2025

Figure 49. Semi-automatic

Figure 50. Full-automatic

Figure 51. World X-Ray Defect Inspection for Semiconductor Production Market Share by Automation (2021-2032)

Figure 52. World X-Ray Defect Inspection for Semiconductor Production Value Market Share by Automation (2021-2032)

Figure 53. World X-Ray Defect Inspection for Semiconductor Average Price by Automation (2021-2032) & (K US\$/Unit)

Figure 54. World X-Ray Defect Inspection for Semiconductor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World X-Ray Defect Inspection for Semiconductor Production Value Market Share by Application in 2025

Figure 56. Impurity Analysis

Figure 57. Solder Joint inspection

Figure 58. Others

Figure 59. World X-Ray Defect Inspection for Semiconductor Production Market Share by Application (2021-2032)

Figure 60. World X-Ray Defect Inspection for Semiconductor Production Value Market Share by Application (2021-2032)

Figure 61. World X-Ray Defect Inspection for Semiconductor Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 62. X-Ray Defect Inspection for Semiconductor Industry Chain

Figure 63. X-Ray Defect Inspection for Semiconductor Procurement Model

Figure 64. X-Ray Defect Inspection for Semiconductor Sales Model

Figure 65. X-Ray Defect Inspection for Semiconductor Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

I would like to order

Product name: Global X-Ray Defect Inspection for Semiconductor Supply, Demand and Key Producers, 2026-2032

Product link: <https://marketpublishers.com/r/G66622A196FEEN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G66622A196FEEN.html>