

Global Semiconductor X-Ray Inspection Equipment Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Semiconductor X-Ray Inspection Equipment market size was valued at US\$ 262 million in 2025 and is forecast to a readjusted size of US\$ 449 million by 2032 with a CAGR of 7.7% during review period.

Semiconductor X-Ray Inspection Equipment refers to non-destructive inspection systems that use X-ray transmission, multi-angle imaging, laminography, or computed tomography to visualize and analyze internal structures and hidden defects in semiconductor wafers, dies, packages, interconnects, and semiconductor modules. The equipment is primarily used to detect and quantify voids, cracks, delamination, bridging, missing or malformed bumps, solder-joint defects, wire-bond abnormalities, TSV/TGV defects, internal alignment errors, and other defects that cannot be reliably identified by surface optical inspection. Semiconductor X-Ray Inspection Equipment increasingly combines microfocus or nanofocus X-ray sources, high-resolution detectors, precision motion systems, automated material handling, reconstruction algorithms, defect-recognition software, and production-line communication interfaces.

Key Findings

Advanced packaging is becoming the principal incremental demand driver for Semiconductor X-Ray Inspection Equipment

2D remains important for rapid screening, while 2.5D and 3D technologies address increasingly complex multilayer structures

3D Computed Tomography Equipment is gaining strategic importance in micro-bump, TSV, TGV and heterogeneous integration inspection

Asia remains the principal demand region, supported by the concentration of semiconductor manufacturing, packaging and equipment investment

Market Trends

Semiconductor X-Ray Inspection Equipment is evolving from primarily offline defect visualization toward automated, quantitative and production-integrated inspection and metrology. Advanced packaging architectures such as chiplets, 2.5D/3D ICs, high-bandwidth memory, wafer-level packaging and panel-level packaging introduce denser interconnect structures, smaller micro-bumps, stacked dies and optically inaccessible interfaces, increasing the value of depth-resolved X-ray inspection. Technology development is therefore focused on higher-resolution X-ray sources, larger and faster detectors, improved reconstruction algorithms, reduced scan time and lower radiation dose. At the same time, inspection software is becoming a larger part of system differentiation. AI-assisted defect recognition, automatic recipe generation, statistical process control and closed-loop process feedback are moving X-ray systems closer to semiconductor metrology platforms rather than stand-alone imaging tools. Production-compatible 2.5D and planar CT approaches are also improving the balance between inspection depth and throughput, while full 3D CT continues to expand from laboratory and failure-analysis applications toward automated fab and packaging-line environments.

Market Dynamics

Drivers

Demand for Semiconductor X-Ray Inspection Equipment is being driven by increasing semiconductor package complexity and the rising economic cost of hidden defects. AI accelerators, high-performance computing devices and high-bandwidth memory increasingly rely on advanced packaging, heterogeneous integration and high-density interconnects, where defects in micro-bumps, TSVs, solder interfaces or buried structures may not be visible with conventional optical techniques. Rising device value also increases the economic benefit of identifying process excursions before

subsequent high-value manufacturing steps are completed. The continued expansion of advanced packaging and semiconductor test investment reinforces this demand environment; SEMI reported that assembly and packaging equipment sales increased materially in 2025 as advanced packaging adoption expanded.

Restraints

The principal constraints are equipment cost, inspection throughput and the technical trade-off between spatial resolution, field of view and scan speed. High-resolution 3D CT systems require precision X-ray sources, detectors, motion platforms, reconstruction computing and sophisticated algorithms, resulting in higher capital costs than conventional 2D inspection systems. Full volumetric reconstruction may also require longer acquisition and processing times, limiting the economics of 100% inspection for high-volume products. Semiconductor materials and increasingly complex multilayer packages can introduce image overlap, attenuation and reconstruction artifacts, while radiation dose must be controlled for sensitive devices. These factors encourage customers to use different inspection depths at different process steps rather than adopting one technology across every inspection point.

Opportunities

The largest emerging opportunities are associated with advanced packaging production lines where buried structures need both inspection and quantitative metrology. Wafer-level and panel-level packaging, chiplets, CoWoS-type structures, 2.5D/3D integration, micro-bumps, TSVs and emerging glass substrates with TGVs are increasing requirements for depth discrimination and three-dimensional measurement. This creates opportunities not only for higher-end 3D CT systems but also for production-oriented 2.5D and planar CT solutions that can deliver sufficient layer separation at higher throughput. Another opportunity is the integration of X-ray inspection data into process-control systems, allowing equipment to move from final defect screening toward feedback-driven yield management. Cleanroom compatibility, SECS/GEM connectivity, automated wafer or panel handling and AI-enabled analysis are therefore becoming increasingly important competitive capabilities.

Challenges

The market faces increasing requirements for simultaneous improvements in resolution,

throughput, repeatability and automation. As interconnect dimensions shrink toward tens of microns and below, equipment manufacturers must detect smaller defects without creating inspection bottlenecks. Algorithm robustness is another challenge because package structures, materials and defect signatures vary significantly between customers and processes, making universal inspection recipes difficult to establish. Customers also increasingly require measurement traceability and stable performance across multiple production lines and geographic sites. In addition, semiconductor manufacturers evaluate X-ray alongside optical inspection, acoustic microscopy, electrical test and other complementary techniques, requiring X-ray suppliers to demonstrate clear economic value at each process step rather than relying solely on imaging performance.

Industry Chain Analysis

The upstream industry chain for Semiconductor X-Ray Inspection Equipment consists primarily of microfocus and nanofocus X-ray sources, high-resolution flat-panel or photon-sensitive detectors, precision motion stages, motors and encoders, radiation-shielding materials, industrial computers, image-processing hardware and semiconductor-compatible automation components. X-ray source focal-spot performance, detector sensitivity, mechanical stability and geometric calibration are particularly important to achievable resolution and measurement repeatability. Software is taking an increasingly important share of system value as image reconstruction, automated defect recognition, dimensional metrology and process-data analysis become core determinants of inspection productivity. Some equipment manufacturers develop key X-ray, imaging or algorithm technologies internally, while others integrate specialized components from upstream suppliers.

The midstream consists of Semiconductor X-Ray Inspection Equipment manufacturers responsible for system integration, imaging architecture, automation, reconstruction algorithms, application software and customer-specific process development. Equipment value increases significantly when systems move from general-purpose offline imaging toward semiconductor-specific automated inspection because they require wafer, tray or panel handling, cleanroom compatibility, recipe management, factory communication protocols and high-throughput defect classification. Downstream customers include semiconductor IDMs, foundries, OSAT companies, advanced packaging manufacturers, power semiconductor producers, research institutions and failure-analysis laboratories. The value chain is gradually shifting from equipment sales toward a combination of hardware, software, application engineering, algorithm

upgrades and long-term service support.

Segment Insights

By the confirmed product segmentation, the market consists of 2D X-ray Inspection Equipment, 2.5D X-ray Inspection Equipment and 3D Computed Tomography Equipment. 2D systems retain an important position because of relatively high imaging speed, straightforward operation and cost advantages, making them suitable for rapid detection of voids, solder defects, wire-bond abnormalities and other structures where depth separation is less critical. However, overlapping features in multilayer packages increasingly limit conventional transmission images as semiconductor packaging becomes more complex.

2.5D X-ray Inspection Equipment occupies an important intermediate position between speed and structural separation. Multi-angle imaging and laminography can isolate selected layers more effectively than 2D imaging while avoiding part of the acquisition and reconstruction burden of full CT, making this technology increasingly attractive for inline advanced-packaging inspection. 3D Computed Tomography Equipment provides the greatest volumetric visibility and supports virtual cross-sectioning and quantitative analysis of complex internal structures. Its strategic importance is increasing in micro-bump, TSV/TGV, flip-chip and multilayer advanced-packaging applications, particularly where failure analysis, process development and high-value production require accurate three-dimensional defect localization. Improvements in acquisition speed and reconstruction algorithms are gradually expanding 3D CT from laboratory inspection into automated production environments.

Downstream Market Opportunities

Advanced packaging represents the most significant downstream opportunity for Semiconductor X-Ray Inspection Equipment. AI processors, HBM, chiplets and heterogeneous integration are increasing adoption of wafer-level packaging, 2.5D/3D integration and high-density interconnect structures, which create more hidden interfaces and raise the cost of undetected defects. Wafer bump inspection, flip-chip bonding, TSV/TGV inspection, SiP, power semiconductor modules and advanced substrate inspection therefore offer increasing equipment demand. High-volume manufacturing customers are particularly likely to prioritize automated 2.5D and 3D solutions capable of 100% or high-sampling-rate inspection, while R&D, process development and failure-analysis applications continue to support demand for flexible

high-resolution CT platforms.

Regional Insights

Asia is the principal demand center for Semiconductor X-Ray Inspection Equipment because semiconductor fabrication, memory production, OSAT capacity and advanced packaging manufacturing are highly concentrated in the region. China, Taiwan and South Korea together accounted for 79% of global semiconductor equipment spending in 2025, indicating the scale of the regional semiconductor manufacturing base rather than a corresponding share of the X-ray inspection market. Taiwan and South Korea are particularly important for AI-related advanced packaging, HBM and 2.5D/3D integration, while China continues to expand domestic semiconductor manufacturing, packaging and inspection-equipment capability. Japan remains important through its semiconductor equipment, materials, power-device and high-end manufacturing ecosystem, and Southeast Asia benefits from continued OSAT and electronics manufacturing investment.

North America and Europe represent strategically important markets for advanced semiconductor R&D, equipment development, failure analysis and new domestic semiconductor capacity. The United States is benefiting from new fab and advanced-packaging investment associated with supply-chain localization and AI infrastructure, while Europe maintains strong demand in automotive, power semiconductor, industrial and research applications. Regional purchasing priorities differ: Asian high-volume manufacturing sites place greater emphasis on throughput, automation and line integration, whereas North American and European customers also represent significant demand for high-resolution CT, process development and laboratory-based analytical systems. Continued regionalization of semiconductor production is creating additional opportunities for inspection-equipment suppliers with global application engineering and service networks.

Competitive Landscape Analysis

The Semiconductor X-Ray Inspection Equipment market has a diverse competitive structure spanning high-resolution industrial CT specialists, semiconductor-focused automated X-ray inspection suppliers and broader electronics inspection companies extending into advanced packaging. Comet Yxlon, Nikon Metrology, Waygate Technologies, ZEISS Industrial Quality Solutions, Bruker and RX Solutions have strong

capabilities in high-resolution X-ray and CT imaging, with competition centered on image quality, spatial resolution, reconstruction performance and analytical flexibility. Nordson Test & Inspection has strengthened its position in semiconductor-specific automated X-ray metrology and inline AXI, while Viscom, ViTrox, Saki Corporation, Test Research, SEC, PEMTRON and other automated inspection suppliers compete increasingly on production throughput, software algorithms and factory integration. Asian suppliers, including Wuxi Unicomp Technology, Shenzhen Zhuomao Technology, Jutze Intelligence Technology and Zhengye Technology, are expanding their semiconductor and electronics X-ray portfolios and increasing competition in cost-performance, localization and application support. The market remains technology-driven rather than purely scale-driven: equipment suppliers capable of combining high-resolution imaging with automation, semiconductor-specific defect libraries, AI-assisted analysis and stable high-volume manufacturing performance are better positioned to participate in the shift from offline inspection to inline process control.

Report Scope

This report is a detailed and comprehensive analysis for global Semiconductor X-Ray Inspection Equipment market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Semiconductor X-Ray Inspection Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Semiconductor X-Ray Inspection Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Semiconductor X-Ray Inspection Equipment market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average

selling prices (K US\$/Unit), 2021-2032

Global Semiconductor X-Ray Inspection Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Semiconductor X-Ray Inspection Equipment
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Semiconductor X-Ray Inspection Equipment market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Comet Yxlon, Nordson Test & Inspection, Waygate Technologies, Nikon Metrology, ZEISS Industrial Quality Solutions, Bruker, Shimadzu, OMRON, Viscom, ViTrox, etc.

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

Semiconductor X-Ray Inspection Equipment market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

2D X-ray Inspection Equipment

2.5D X-ray Inspection Equipment

3D Computed Tomography Equipment

Market segment by Inspection Mode

Offline X-ray Inspection Equipment

Inline X-ray Inspection Equipment

Market segment by Technology

Microfocus X-ray Inspection Equipment

Nanofocus X-ray Inspection Equipment

Others

Market segment by Application

Wafer X-ray Inspection

Advanced Packaging X-ray Inspection

Semiconductor Package X-ray Inspection

Power Semiconductor X-ray Inspection

Semiconductor Substrate X-ray Inspection

Others

Major players covered

Comet Yxlon

Nordson Test & Inspection

Waygate Technologies

Nikon Metrology

ZEISS Industrial Quality Solutions

Bruker

Shimadzu

OMRON

Viscom

ViTrox

Saki Corporation

Test Research, Inc.

SEC Co., Ltd.

Creative Electron

Glenbrook Technologies

RX Solutions

Hitachi High-Tech

MARS TOHKEN SOLUTION Co., Ltd.

TECHNO HORIZON Co., Ltd.

SOFTEX Co., Ltd.

XAVIS Co., Ltd.

PEMTRON Corporation

Wuxi Unicomp Technology Co., Ltd.

Shenzhen Zhuomao Technology Co., Ltd.

Jutze Intelligence Technology Co., Ltd.

Zhengye Technology Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Semiconductor X-Ray Inspection Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semiconductor X-Ray Inspection Equipment, with price, sales quantity, revenue, and global market share of Semiconductor X-Ray Inspection Equipment from 2021 to 2026.

Chapter 3, the Semiconductor X-Ray Inspection Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Semiconductor X-Ray Inspection Equipment breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Semiconductor X-Ray Inspection Equipment market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Semiconductor X-Ray Inspection Equipment.

Chapter 14 and 15, to describe Semiconductor X-Ray Inspection Equipment sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Semiconductor X-Ray Inspection Equipment Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 2D X-ray Inspection Equipment

1.3.3 2.5D X-ray Inspection Equipment

1.3.4 3D Computed Tomography Equipment

1.4 Market Analysis by Inspection Mode

1.4.1 Overview: Global Semiconductor X-Ray Inspection Equipment Consumption Value by Inspection Mode: 2021 Versus 2025 Versus 2032

1.4.2 Offline X-ray Inspection Equipment

1.4.3 Inline X-ray Inspection Equipment

1.5 Market Analysis by Technology

1.5.1 Overview: Global Semiconductor X-Ray Inspection Equipment Consumption Value by Technology: 2021 Versus 2025 Versus 2032

1.5.2 Microfocus X-ray Inspection Equipment

1.5.3 Nanofocus X-ray Inspection Equipment

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Semiconductor X-Ray Inspection Equipment Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Wafer X-ray Inspection

1.6.3 Advanced Packaging X-ray Inspection

1.6.4 Semiconductor Package X-ray Inspection

1.6.5 Power Semiconductor X-ray Inspection

1.6.6 Semiconductor Substrate X-ray Inspection

1.6.7 Others

1.7 Global Semiconductor X-Ray Inspection Equipment Market Size & Forecast

1.7.1 Global Semiconductor X-Ray Inspection Equipment Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Semiconductor X-Ray Inspection Equipment Sales Quantity (2021-2032)

1.7.3 Global Semiconductor X-Ray Inspection Equipment Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Comet Yxlon

2.1.1 Comet Yxlon Details

2.1.2 Comet Yxlon Major Business

2.1.3 Comet Yxlon Semiconductor X-Ray Inspection Equipment Product and Services

2.1.4 Comet Yxlon Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Comet Yxlon Recent Developments/Updates

2.2 Nordson Test & Inspection

2.2.1 Nordson Test & Inspection Details

2.2.2 Nordson Test & Inspection Major Business

2.2.3 Nordson Test & Inspection Semiconductor X-Ray Inspection Equipment Product and Services

2.2.4 Nordson Test & Inspection Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Nordson Test & Inspection Recent Developments/Updates

2.3 Waygate Technologies

2.3.1 Waygate Technologies Details

2.3.2 Waygate Technologies Major Business

2.3.3 Waygate Technologies Semiconductor X-Ray Inspection Equipment Product and Services

2.3.4 Waygate Technologies Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Waygate Technologies Recent Developments/Updates

2.4 Nikon Metrology

2.4.1 Nikon Metrology Details

2.4.2 Nikon Metrology Major Business

2.4.3 Nikon Metrology Semiconductor X-Ray Inspection Equipment Product and Services

2.4.4 Nikon Metrology Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Nikon Metrology Recent Developments/Updates

2.5 ZEISS Industrial Quality Solutions

2.5.1 ZEISS Industrial Quality Solutions Details

2.5.2 ZEISS Industrial Quality Solutions Major Business

2.5.3 ZEISS Industrial Quality Solutions Semiconductor X-Ray Inspection Equipment Product and Services

2.5.4 ZEISS Industrial Quality Solutions Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 ZEISS Industrial Quality Solutions Recent Developments/Updates

2.6 Bruker

2.6.1 Bruker Details

2.6.2 Bruker Major Business

2.6.3 Bruker Semiconductor X-Ray Inspection Equipment Product and Services

2.6.4 Bruker Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Bruker Recent Developments/Updates

2.7 Shimadzu

2.7.1 Shimadzu Details

2.7.2 Shimadzu Major Business

2.7.3 Shimadzu Semiconductor X-Ray Inspection Equipment Product and Services

2.7.4 Shimadzu Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Shimadzu Recent Developments/Updates

2.8 OMRON

2.8.1 OMRON Details

2.8.2 OMRON Major Business

2.8.3 OMRON Semiconductor X-Ray Inspection Equipment Product and Services

2.8.4 OMRON Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 OMRON Recent Developments/Updates

2.9 Viscom

2.9.1 Viscom Details

2.9.2 Viscom Major Business

2.9.3 Viscom Semiconductor X-Ray Inspection Equipment Product and Services

2.9.4 Viscom Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Viscom Recent Developments/Updates

2.10 ViTrox

2.10.1 ViTrox Details

2.10.2 ViTrox Major Business

2.10.3 ViTrox Semiconductor X-Ray Inspection Equipment Product and Services

2.10.4 ViTrox Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 ViTrox Recent Developments/Updates

2.11 Saki Corporation

2.11.1 Saki Corporation Details

2.11.2 Saki Corporation Major Business

2.11.3 Saki Corporation Semiconductor X-Ray Inspection Equipment Product and Services

2.11.4 Saki Corporation Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Saki Corporation Recent Developments/Updates

2.12 Test Research, Inc.

2.12.1 Test Research, Inc. Details

2.12.2 Test Research, Inc. Major Business

2.12.3 Test Research, Inc. Semiconductor X-Ray Inspection Equipment Product and Services

2.12.4 Test Research, Inc. Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Test Research, Inc. Recent Developments/Updates

2.13 SEC Co., Ltd.

2.13.1 SEC Co., Ltd. Details

2.13.2 SEC Co., Ltd. Major Business

2.13.3 SEC Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

2.13.4 SEC Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 SEC Co., Ltd. Recent Developments/Updates

2.14 Creative Electron

2.14.1 Creative Electron Details

2.14.2 Creative Electron Major Business

2.14.3 Creative Electron Semiconductor X-Ray Inspection Equipment Product and Services

2.14.4 Creative Electron Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Creative Electron Recent Developments/Updates

2.15 Glenbrook Technologies

2.15.1 Glenbrook Technologies Details

2.15.2 Glenbrook Technologies Major Business

2.15.3 Glenbrook Technologies Semiconductor X-Ray Inspection Equipment Product and Services

2.15.4 Glenbrook Technologies Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 Glenbrook Technologies Recent Developments/Updates

2.16 RX Solutions

2.16.1 RX Solutions Details

- 2.16.2 RX Solutions Major Business
- 2.16.3 RX Solutions Semiconductor X-Ray Inspection Equipment Product and Services
- 2.16.4 RX Solutions Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.16.5 RX Solutions Recent Developments/Updates
- 2.17 Hitachi High-Tech
 - 2.17.1 Hitachi High-Tech Details
 - 2.17.2 Hitachi High-Tech Major Business
 - 2.17.3 Hitachi High-Tech Semiconductor X-Ray Inspection Equipment Product and Services
 - 2.17.4 Hitachi High-Tech Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.17.5 Hitachi High-Tech Recent Developments/Updates
- 2.18 MARS TOHKEN SOLUTION Co., Ltd.
 - 2.18.1 MARS TOHKEN SOLUTION Co., Ltd. Details
 - 2.18.2 MARS TOHKEN SOLUTION Co., Ltd. Major Business
 - 2.18.3 MARS TOHKEN SOLUTION Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services
 - 2.18.4 MARS TOHKEN SOLUTION Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.18.5 MARS TOHKEN SOLUTION Co., Ltd. Recent Developments/Updates
- 2.19 TECHNO HORIZON Co., Ltd.
 - 2.19.1 TECHNO HORIZON Co., Ltd. Details
 - 2.19.2 TECHNO HORIZON Co., Ltd. Major Business
 - 2.19.3 TECHNO HORIZON Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services
 - 2.19.4 TECHNO HORIZON Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.19.5 TECHNO HORIZON Co., Ltd. Recent Developments/Updates
- 2.20 SOFTEX Co., Ltd.
 - 2.20.1 SOFTEX Co., Ltd. Details
 - 2.20.2 SOFTEX Co., Ltd. Major Business
 - 2.20.3 SOFTEX Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services
 - 2.20.4 SOFTEX Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.20.5 SOFTEX Co., Ltd. Recent Developments/Updates

2.21 XAVIS Co., Ltd.

2.21.1 XAVIS Co., Ltd. Details

2.21.2 XAVIS Co., Ltd. Major Business

2.21.3 XAVIS Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

2.21.4 XAVIS Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.21.5 XAVIS Co., Ltd. Recent Developments/Updates

2.22 PEMTRON Corporation

2.22.1 PEMTRON Corporation Details

2.22.2 PEMTRON Corporation Major Business

2.22.3 PEMTRON Corporation Semiconductor X-Ray Inspection Equipment Product and Services

2.22.4 PEMTRON Corporation Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.22.5 PEMTRON Corporation Recent Developments/Updates

2.23 Wuxi Unicomp Technology Co., Ltd.

2.23.1 Wuxi Unicomp Technology Co., Ltd. Details

2.23.2 Wuxi Unicomp Technology Co., Ltd. Major Business

2.23.3 Wuxi Unicomp Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

2.23.4 Wuxi Unicomp Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.23.5 Wuxi Unicomp Technology Co., Ltd. Recent Developments/Updates

2.24 Shenzhen Zhuomao Technology Co., Ltd.

2.24.1 Shenzhen Zhuomao Technology Co., Ltd. Details

2.24.2 Shenzhen Zhuomao Technology Co., Ltd. Major Business

2.24.3 Shenzhen Zhuomao Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

2.24.4 Shenzhen Zhuomao Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.24.5 Shenzhen Zhuomao Technology Co., Ltd. Recent Developments/Updates

2.25 Jutze Intelligence Technology Co., Ltd.

2.25.1 Jutze Intelligence Technology Co., Ltd. Details

2.25.2 Jutze Intelligence Technology Co., Ltd. Major Business

2.25.3 Jutze Intelligence Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

2.25.4 Jutze Intelligence Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.25.5 Jutze Intelligence Technology Co., Ltd. Recent Developments/Updates

2.26 Zhengye Technology Co., Ltd.

2.26.1 Zhengye Technology Co., Ltd. Details

2.26.2 Zhengye Technology Co., Ltd. Major Business

2.26.3 Zhengye Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

2.26.4 Zhengye Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.26.5 Zhengye Technology Co., Ltd. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SEMICONDUCTOR X-RAY INSPECTION EQUIPMENT BY MANUFACTURER

3.1 Global Semiconductor X-Ray Inspection Equipment Sales Quantity by Manufacturer (2021-2026)

3.2 Global Semiconductor X-Ray Inspection Equipment Revenue by Manufacturer (2021-2026)

3.3 Global Semiconductor X-Ray Inspection Equipment Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Semiconductor X-Ray Inspection Equipment by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Semiconductor X-Ray Inspection Equipment Manufacturer Market Share in 2025

3.4.3 Top 6 Semiconductor X-Ray Inspection Equipment Manufacturer Market Share in 2025

3.5 Semiconductor X-Ray Inspection Equipment Market: Overall Company Footprint Analysis

3.5.1 Semiconductor X-Ray Inspection Equipment Market: Region Footprint

3.5.2 Semiconductor X-Ray Inspection Equipment Market: Company Product Type Footprint

3.5.3 Semiconductor X-Ray Inspection Equipment Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Semiconductor X-Ray Inspection Equipment Market Size by Region

4.1.1 Global Semiconductor X-Ray Inspection Equipment Sales Quantity by Region (2021-2032)

4.1.2 Global Semiconductor X-Ray Inspection Equipment Consumption Value by Region (2021-2032)

4.1.3 Global Semiconductor X-Ray Inspection Equipment Average Price by Region (2021-2032)

4.2 North America Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032)

4.3 Europe Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032)

4.4 Asia-Pacific Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032)

4.5 South America Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032)

4.6 Middle East & Africa Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2021-2032)

5.2 Global Semiconductor X-Ray Inspection Equipment Consumption Value by Type (2021-2032)

5.3 Global Semiconductor X-Ray Inspection Equipment Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2021-2032)

6.2 Global Semiconductor X-Ray Inspection Equipment Consumption Value by Application (2021-2032)

6.3 Global Semiconductor X-Ray Inspection Equipment Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2021-2032)

7.2 North America Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2021-2032)

7.3 North America Semiconductor X-Ray Inspection Equipment Market Size by Country

7.3.1 North America Semiconductor X-Ray Inspection Equipment Sales Quantity by Country (2021-2032)

7.3.2 North America Semiconductor X-Ray Inspection Equipment Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2021-2032)

8.2 Europe Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2021-2032)

8.3 Europe Semiconductor X-Ray Inspection Equipment Market Size by Country

8.3.1 Europe Semiconductor X-Ray Inspection Equipment Sales Quantity by Country (2021-2032)

8.3.2 Europe Semiconductor X-Ray Inspection Equipment Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Semiconductor X-Ray Inspection Equipment Market Size by Region

9.3.1 Asia-Pacific Semiconductor X-Ray Inspection Equipment Sales Quantity by

Region (2021-2032)

9.3.2 Asia-Pacific Semiconductor X-Ray Inspection Equipment Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2021-2032)

10.2 South America Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2021-2032)

10.3 South America Semiconductor X-Ray Inspection Equipment Market Size by Country

10.3.1 South America Semiconductor X-Ray Inspection Equipment Sales Quantity by Country (2021-2032)

10.3.2 South America Semiconductor X-Ray Inspection Equipment Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Semiconductor X-Ray Inspection Equipment Market Size by Country

11.3.1 Middle East & Africa Semiconductor X-Ray Inspection Equipment Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Semiconductor X-Ray Inspection Equipment Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Semiconductor X-Ray Inspection Equipment Market Drivers

12.2 Semiconductor X-Ray Inspection Equipment Market Restraints

12.3 Semiconductor X-Ray Inspection Equipment Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Semiconductor X-Ray Inspection Equipment and Key Manufacturers

13.2 Manufacturing Costs Percentage of Semiconductor X-Ray Inspection Equipment

13.3 Semiconductor X-Ray Inspection Equipment Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Semiconductor X-Ray Inspection Equipment Typical Distributors

14.3 Semiconductor X-Ray Inspection Equipment Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Semiconductor X-Ray Inspection Equipment Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Semiconductor X-Ray Inspection Equipment Consumption Value by Inspection Mode, (USD Million), 2021 & 2025 & 2032

Table 3. Global Semiconductor X-Ray Inspection Equipment Consumption Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 4. Global Semiconductor X-Ray Inspection Equipment Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Comet Yxlon Basic Information, Manufacturing Base and Competitors

Table 6. Comet Yxlon Major Business

Table 7. Comet Yxlon Semiconductor X-Ray Inspection Equipment Product and Services

Table 8. Comet Yxlon Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Comet Yxlon Recent Developments/Updates

Table 10. Nordson Test & Inspection Basic Information, Manufacturing Base and Competitors

Table 11. Nordson Test & Inspection Major Business

Table 12. Nordson Test & Inspection Semiconductor X-Ray Inspection Equipment Product and Services

Table 13. Nordson Test & Inspection Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Nordson Test & Inspection Recent Developments/Updates

Table 15. Waygate Technologies Basic Information, Manufacturing Base and Competitors

Table 16. Waygate Technologies Major Business

Table 17. Waygate Technologies Semiconductor X-Ray Inspection Equipment Product and Services

Table 18. Waygate Technologies Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Waygate Technologies Recent Developments/Updates

Table 20. Nikon Metrology Basic Information, Manufacturing Base and Competitors

Table 21. Nikon Metrology Major Business
Table 22. Nikon Metrology Semiconductor X-Ray Inspection Equipment Product and Services
Table 23. Nikon Metrology Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 24. Nikon Metrology Recent Developments/Updates
Table 25. ZEISS Industrial Quality Solutions Basic Information, Manufacturing Base and Competitors
Table 26. ZEISS Industrial Quality Solutions Major Business
Table 27. ZEISS Industrial Quality Solutions Semiconductor X-Ray Inspection Equipment Product and Services
Table 28. ZEISS Industrial Quality Solutions Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 29. ZEISS Industrial Quality Solutions Recent Developments/Updates
Table 30. Bruker Basic Information, Manufacturing Base and Competitors
Table 31. Bruker Major Business
Table 32. Bruker Semiconductor X-Ray Inspection Equipment Product and Services
Table 33. Bruker Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 34. Bruker Recent Developments/Updates
Table 35. Shimadzu Basic Information, Manufacturing Base and Competitors
Table 36. Shimadzu Major Business
Table 37. Shimadzu Semiconductor X-Ray Inspection Equipment Product and Services
Table 38. Shimadzu Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 39. Shimadzu Recent Developments/Updates
Table 40. OMRON Basic Information, Manufacturing Base and Competitors
Table 41. OMRON Major Business
Table 42. OMRON Semiconductor X-Ray Inspection Equipment Product and Services
Table 43. OMRON Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 44. OMRON Recent Developments/Updates
Table 45. Viscom Basic Information, Manufacturing Base and Competitors
Table 46. Viscom Major Business

Table 47. Viscom Semiconductor X-Ray Inspection Equipment Product and Services

Table 48. Viscom Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Viscom Recent Developments/Updates

Table 50. ViTrox Basic Information, Manufacturing Base and Competitors

Table 51. ViTrox Major Business

Table 52. ViTrox Semiconductor X-Ray Inspection Equipment Product and Services

Table 53. ViTrox Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. ViTrox Recent Developments/Updates

Table 55. Saki Corporation Basic Information, Manufacturing Base and Competitors

Table 56. Saki Corporation Major Business

Table 57. Saki Corporation Semiconductor X-Ray Inspection Equipment Product and Services

Table 58. Saki Corporation Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Saki Corporation Recent Developments/Updates

Table 60. Test Research, Inc. Basic Information, Manufacturing Base and Competitors

Table 61. Test Research, Inc. Major Business

Table 62. Test Research, Inc. Semiconductor X-Ray Inspection Equipment Product and Services

Table 63. Test Research, Inc. Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Test Research, Inc. Recent Developments/Updates

Table 65. SEC Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 66. SEC Co., Ltd. Major Business

Table 67. SEC Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

Table 68. SEC Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. SEC Co., Ltd. Recent Developments/Updates

Table 70. Creative Electron Basic Information, Manufacturing Base and Competitors

Table 71. Creative Electron Major Business

Table 72. Creative Electron Semiconductor X-Ray Inspection Equipment Product and

Services

Table 73. Creative Electron Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Creative Electron Recent Developments/Updates

Table 75. Glenbrook Technologies Basic Information, Manufacturing Base and Competitors

Table 76. Glenbrook Technologies Major Business

Table 77. Glenbrook Technologies Semiconductor X-Ray Inspection Equipment Product and Services

Table 78. Glenbrook Technologies Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Glenbrook Technologies Recent Developments/Updates

Table 80. RX Solutions Basic Information, Manufacturing Base and Competitors

Table 81. RX Solutions Major Business

Table 82. RX Solutions Semiconductor X-Ray Inspection Equipment Product and Services

Table 83. RX Solutions Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. RX Solutions Recent Developments/Updates

Table 85. Hitachi High-Tech Basic Information, Manufacturing Base and Competitors

Table 86. Hitachi High-Tech Major Business

Table 87. Hitachi High-Tech Semiconductor X-Ray Inspection Equipment Product and Services

Table 88. Hitachi High-Tech Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. Hitachi High-Tech Recent Developments/Updates

Table 90. MARS TOHKEN SOLUTION Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 91. MARS TOHKEN SOLUTION Co., Ltd. Major Business

Table 92. MARS TOHKEN SOLUTION Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

Table 93. MARS TOHKEN SOLUTION Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 94. MARS TOHKEN SOLUTION Co., Ltd. Recent Developments/Updates

Table 95. TECHNO HORIZON Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 96. TECHNO HORIZON Co., Ltd. Major Business

Table 97. TECHNO HORIZON Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

Table 98. TECHNO HORIZON Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 99. TECHNO HORIZON Co., Ltd. Recent Developments/Updates

Table 100. SOFTEX Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 101. SOFTEX Co., Ltd. Major Business

Table 102. SOFTEX Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

Table 103. SOFTEX Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. SOFTEX Co., Ltd. Recent Developments/Updates

Table 105. XAVIS Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 106. XAVIS Co., Ltd. Major Business

Table 107. XAVIS Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

Table 108. XAVIS Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. XAVIS Co., Ltd. Recent Developments/Updates

Table 110. PEMTRON Corporation Basic Information, Manufacturing Base and Competitors

Table 111. PEMTRON Corporation Major Business

Table 112. PEMTRON Corporation Semiconductor X-Ray Inspection Equipment Product and Services

Table 113. PEMTRON Corporation Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. PEMTRON Corporation Recent Developments/Updates

Table 115. Wuxi Unicomp Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 116. Wuxi Unicomp Technology Co., Ltd. Major Business

Table 117. Wuxi Unicomp Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

Table 118. Wuxi Unicomp Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 119. Wuxi Unicomp Technology Co., Ltd. Recent Developments/Updates

Table 120. Shenzhen Zhuomao Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 121. Shenzhen Zhuomao Technology Co., Ltd. Major Business

Table 122. Shenzhen Zhuomao Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

Table 123. Shenzhen Zhuomao Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 124. Shenzhen Zhuomao Technology Co., Ltd. Recent Developments/Updates

Table 125. Jutze Intelligence Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 126. Jutze Intelligence Technology Co., Ltd. Major Business

Table 127. Jutze Intelligence Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

Table 128. Jutze Intelligence Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 129. Jutze Intelligence Technology Co., Ltd. Recent Developments/Updates

Table 130. Zhengye Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 131. Zhengye Technology Co., Ltd. Major Business

Table 132. Zhengye Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Product and Services

Table 133. Zhengye Technology Co., Ltd. Semiconductor X-Ray Inspection Equipment Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. Zhengye Technology Co., Ltd. Recent Developments/Updates

Table 135. Global Semiconductor X-Ray Inspection Equipment Sales Quantity by Manufacturer (2021-2026) & (Units)

Table 136. Global Semiconductor X-Ray Inspection Equipment Revenue by Manufacturer (2021-2026) & (USD Million)

Table 137. Global Semiconductor X-Ray Inspection Equipment Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 138. Market Position of Manufacturers in Semiconductor X-Ray Inspection Equipment, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 139. Head Office and Semiconductor X-Ray Inspection Equipment Production Site of Key Manufacturer

Table 140. Semiconductor X-Ray Inspection Equipment Market: Company Product Type Footprint

Table 141. Semiconductor X-Ray Inspection Equipment Market: Company Product Application Footprint

Table 142. Semiconductor X-Ray Inspection Equipment New Market Entrants and Barriers to Market Entry

Table 143. Semiconductor X-Ray Inspection Equipment Mergers, Acquisition, Agreements, and Collaborations

Table 144. Global Semiconductor X-Ray Inspection Equipment Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 145. Global Semiconductor X-Ray Inspection Equipment Sales Quantity by Region (2021-2026) & (Units)

Table 146. Global Semiconductor X-Ray Inspection Equipment Sales Quantity by Region (2027-2032) & (Units)

Table 147. Global Semiconductor X-Ray Inspection Equipment Consumption Value by Region (2021-2026) & (USD Million)

Table 148. Global Semiconductor X-Ray Inspection Equipment Consumption Value by Region (2027-2032) & (USD Million)

Table 149. Global Semiconductor X-Ray Inspection Equipment Average Price by Region (2021-2026) & (K US\$/Unit)

Table 150. Global Semiconductor X-Ray Inspection Equipment Average Price by Region (2027-2032) & (K US\$/Unit)

Table 151. Global Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2021-2026) & (Units)

Table 152. Global Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2027-2032) & (Units)

Table 153. Global Semiconductor X-Ray Inspection Equipment Consumption Value by Type (2021-2026) & (USD Million)

Table 154. Global Semiconductor X-Ray Inspection Equipment Consumption Value by Type (2027-2032) & (USD Million)

Table 155. Global Semiconductor X-Ray Inspection Equipment Average Price by Type (2021-2026) & (K US\$/Unit)

Table 156. Global Semiconductor X-Ray Inspection Equipment Average Price by Type (2027-2032) & (K US\$/Unit)

Table 157. Global Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 158. Global Semiconductor X-Ray Inspection Equipment Sales Quantity by

Application (2027-2032) & (Units)

Table 159. Global Semiconductor X-Ray Inspection Equipment Consumption Value by Application (2021-2026) & (USD Million)

Table 160. Global Semiconductor X-Ray Inspection Equipment Consumption Value by Application (2027-2032) & (USD Million)

Table 161. Global Semiconductor X-Ray Inspection Equipment Average Price by Application (2021-2026) & (K US\$/Unit)

Table 162. Global Semiconductor X-Ray Inspection Equipment Average Price by Application (2027-2032) & (K US\$/Unit)

Table 163. North America Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2021-2026) & (Units)

Table 164. North America Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2027-2032) & (Units)

Table 165. North America Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 166. North America Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2027-2032) & (Units)

Table 167. North America Semiconductor X-Ray Inspection Equipment Sales Quantity by Country (2021-2026) & (Units)

Table 168. North America Semiconductor X-Ray Inspection Equipment Sales Quantity by Country (2027-2032) & (Units)

Table 169. North America Semiconductor X-Ray Inspection Equipment Consumption Value by Country (2021-2026) & (USD Million)

Table 170. North America Semiconductor X-Ray Inspection Equipment Consumption Value by Country (2027-2032) & (USD Million)

Table 171. Europe Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2021-2026) & (Units)

Table 172. Europe Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2027-2032) & (Units)

Table 173. Europe Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 174. Europe Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2027-2032) & (Units)

Table 175. Europe Semiconductor X-Ray Inspection Equipment Sales Quantity by Country (2021-2026) & (Units)

Table 176. Europe Semiconductor X-Ray Inspection Equipment Sales Quantity by Country (2027-2032) & (Units)

Table 177. Europe Semiconductor X-Ray Inspection Equipment Consumption Value by Country (2021-2026) & (USD Million)

Table 178. Europe Semiconductor X-Ray Inspection Equipment Consumption Value by Country (2027-2032) & (USD Million)

Table 179. Asia-Pacific Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2021-2026) & (Units)

Table 180. Asia-Pacific Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2027-2032) & (Units)

Table 181. Asia-Pacific Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 182. Asia-Pacific Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2027-2032) & (Units)

Table 183. Asia-Pacific Semiconductor X-Ray Inspection Equipment Sales Quantity by Region (2021-2026) & (Units)

Table 184. Asia-Pacific Semiconductor X-Ray Inspection Equipment Sales Quantity by Region (2027-2032) & (Units)

Table 185. Asia-Pacific Semiconductor X-Ray Inspection Equipment Consumption Value by Region (2021-2026) & (USD Million)

Table 186. Asia-Pacific Semiconductor X-Ray Inspection Equipment Consumption Value by Region (2027-2032) & (USD Million)

Table 187. South America Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2021-2026) & (Units)

Table 188. South America Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2027-2032) & (Units)

Table 189. South America Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2021-2026) & (Units)

Table 190. South America Semiconductor X-Ray Inspection Equipment Sales Quantity by Application (2027-2032) & (Units)

Table 191. South America Semiconductor X-Ray Inspection Equipment Sales Quantity by Country (2021-2026) & (Units)

Table 192. South America Semiconductor X-Ray Inspection Equipment Sales Quantity by Country (2027-2032) & (Units)

Table 193. South America Semiconductor X-Ray Inspection Equipment Consumption Value by Country (2021-2026) & (USD Million)

Table 194. South America Semiconductor X-Ray Inspection Equipment Consumption Value by Country (2027-2032) & (USD Million)

Table 195. Middle East & Africa Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2021-2026) & (Units)

Table 196. Middle East & Africa Semiconductor X-Ray Inspection Equipment Sales Quantity by Type (2027-2032) & (Units)

Table 197. Middle East & Africa Semiconductor X-Ray Inspection Equipment Sales

Quantity by Application (2021-2026) & (Units)

Table 198. Middle East & Africa Semiconductor X-Ray Inspection Equipment Sales

Quantity by Application (2027-2032) & (Units)

Table 199. Middle East & Africa Semiconductor X-Ray Inspection Equipment Sales

Quantity by Country (2021-2026) & (Units)

Table 200. Middle East & Africa Semiconductor X-Ray Inspection Equipment Sales

Quantity by Country (2027-2032) & (Units)

Table 201. Middle East & Africa Semiconductor X-Ray Inspection Equipment

Consumption Value by Country (2021-2026) & (USD Million)

Table 202. Middle East & Africa Semiconductor X-Ray Inspection Equipment

Consumption Value by Country (2027-2032) & (USD Million)

Table 203. Semiconductor X-Ray Inspection Equipment Raw Material

Table 204. Key Manufacturers of Semiconductor X-Ray Inspection Equipment Raw Materials

Table 205. Semiconductor X-Ray Inspection Equipment Typical Distributors

Table 206. Semiconductor X-Ray Inspection Equipment Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Semiconductor X-Ray Inspection Equipment Picture
- Figure 2. Global Semiconductor X-Ray Inspection Equipment Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Semiconductor X-Ray Inspection Equipment Revenue Market Share by Type in 2025
- Figure 4. 2D X-ray Inspection Equipment Examples
- Figure 5. 2.5D X-ray Inspection Equipment Examples
- Figure 6. 3D Computed Tomography Equipment Examples
- Figure 7. Global Semiconductor X-Ray Inspection Equipment Revenue by Inspection Mode, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Semiconductor X-Ray Inspection Equipment Revenue Market Share by Inspection Mode in 2025
- Figure 9. Offline X-ray Inspection Equipment Examples
- Figure 10. Inline X-ray Inspection Equipment Examples
- Figure 11. Global Semiconductor X-Ray Inspection Equipment Revenue by Technology, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global Semiconductor X-Ray Inspection Equipment Revenue Market Share by Technology in 2025
- Figure 13. Microfocus X-ray Inspection Equipment Examples
- Figure 14. Nanofocus X-ray Inspection Equipment Examples
- Figure 15. Others Examples
- Figure 16. Global Semiconductor X-Ray Inspection Equipment Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 17. Global Semiconductor X-Ray Inspection Equipment Revenue Market Share by Application in 2025
- Figure 18. Wafer X-ray Inspection Examples
- Figure 19. Advanced Packaging X-ray Inspection Examples
- Figure 20. Semiconductor Package X-ray Inspection Examples
- Figure 21. Power Semiconductor X-ray Inspection Examples
- Figure 22. Semiconductor Substrate X-ray Inspection Examples
- Figure 23. Others Examples
- Figure 24. Global Semiconductor X-Ray Inspection Equipment Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 25. Global Semiconductor X-Ray Inspection Equipment Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 26. Global Semiconductor X-Ray Inspection Equipment Sales Quantity (2021-2032) & (Units)

Figure 27. Global Semiconductor X-Ray Inspection Equipment Price (2021-2032) & (K US\$/Unit)

Figure 28. Global Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Manufacturer in 2025

Figure 29. Global Semiconductor X-Ray Inspection Equipment Revenue Market Share by Manufacturer in 2025

Figure 30. Producer Shipments of Semiconductor X-Ray Inspection Equipment by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 31. Top 3 Semiconductor X-Ray Inspection Equipment Manufacturer (Revenue) Market Share in 2025

Figure 32. Top 6 Semiconductor X-Ray Inspection Equipment Manufacturer (Revenue) Market Share in 2025

Figure 33. Global Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Region (2021-2032)

Figure 34. Global Semiconductor X-Ray Inspection Equipment Consumption Value Market Share by Region (2021-2032)

Figure 35. North America Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 36. Europe Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 37. Asia-Pacific Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 38. South America Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 39. Middle East & Africa Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 40. Global Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Type (2021-2032)

Figure 41. Global Semiconductor X-Ray Inspection Equipment Consumption Value Market Share by Type (2021-2032)

Figure 42. Global Semiconductor X-Ray Inspection Equipment Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 43. Global Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 44. Global Semiconductor X-Ray Inspection Equipment Revenue Market Share by Application (2021-2032)

Figure 45. Global Semiconductor X-Ray Inspection Equipment Average Price by

Application (2021-2032) & (K US\$/Unit)

Figure 46. North America Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Type (2021-2032)

Figure 47. North America Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 48. North America Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Country (2021-2032)

Figure 49. North America Semiconductor X-Ray Inspection Equipment Consumption Value Market Share by Country (2021-2032)

Figure 50. United States Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 51. Canada Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 52. Mexico Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 53. Europe Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Type (2021-2032)

Figure 54. Europe Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 55. Europe Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Country (2021-2032)

Figure 56. Europe Semiconductor X-Ray Inspection Equipment Consumption Value Market Share by Country (2021-2032)

Figure 57. Germany Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 58. France Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 59. United Kingdom Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 60. Russia Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 61. Italy Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 62. Asia-Pacific Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Type (2021-2032)

Figure 63. Asia-Pacific Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 64. Asia-Pacific Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Region (2021-2032)

Figure 65. Asia-Pacific Semiconductor X-Ray Inspection Equipment Consumption Value Market Share by Region (2021-2032)

Figure 66. China Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 67. Japan Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 68. South Korea Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 69. India Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 70. Southeast Asia Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 71. Australia Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 72. South America Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Type (2021-2032)

Figure 73. South America Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 74. South America Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Country (2021-2032)

Figure 75. South America Semiconductor X-Ray Inspection Equipment Consumption Value Market Share by Country (2021-2032)

Figure 76. Brazil Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 77. Argentina Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 78. Middle East & Africa Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Type (2021-2032)

Figure 79. Middle East & Africa Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Application (2021-2032)

Figure 80. Middle East & Africa Semiconductor X-Ray Inspection Equipment Sales Quantity Market Share by Country (2021-2032)

Figure 81. Middle East & Africa Semiconductor X-Ray Inspection Equipment Consumption Value Market Share by Country (2021-2032)

Figure 82. Turkey Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 83. Egypt Semiconductor X-Ray Inspection Equipment Consumption Value (2021-2032) & (USD Million)

Figure 84. Saudi Arabia Semiconductor X-Ray Inspection Equipment Consumption

Value (2021-2032) & (USD Million)

Figure 85. South Africa Semiconductor X-Ray Inspection Equipment Consumption

Value (2021-2032) & (USD Million)

Figure 86. Semiconductor X-Ray Inspection Equipment Market Drivers

Figure 87. Semiconductor X-Ray Inspection Equipment Market Restraints

Figure 88. Semiconductor X-Ray Inspection Equipment Market Trends

Figure 89. Porters Five Forces Analysis

Figure 90. Manufacturing Cost Structure Analysis of Semiconductor X-Ray Inspection Equipment in 2025

Figure 91. Manufacturing Process Analysis of Semiconductor X-Ray Inspection Equipment

Figure 92. Semiconductor X-Ray Inspection Equipment Industrial Chain

Figure 93. Sales Channel: Direct to End-User vs Distributors

Figure 94. Direct Channel Pros & Cons

Figure 95. Indirect Channel Pros & Cons

Figure 96. Methodology

Figure 97. Research Process and Data Source

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