

Global Semiconductor Manufacturing X-Ray Measurement and 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 Manufacturing X-Ray Measurement and Inspection Equipment market size was valued at US\$ 437 million in 2025 and is forecast to a readjusted size of US\$ 653 million by 2032 with a CAGR of 6.0% during review period.

X-Ray Measurement and Inspection Equipment uses the penetration, differential absorption, photosensitivity and fluorescence effects of X-rays on objects to project the density distribution information of each part of the object onto the X-ray collection and imaging device. X-Ray Measurement and Inspection Equipment forms corresponding images to observe the internal structure and conditions of objects. In the semiconductor industry, X-ray testing equipment is commonly used to detect the quality of chips and wafers, as well as potential defects in the manufacturing process.

The global key manufacturers of Semiconductor Manufacturing X-ray Measurement and Inspection Equipment include Nordson Corporation, Nikon and Comet Yxlon, etc, top 3 manufacturers hold a share approximately 28%. Nordson Corporation is the world's largest Semiconductor Manufacturing X-ray Measurement and Inspection Equipment manufacturer, with a market share of more than 11%. Asia Pacific, North America and Europe are the major Semiconductor Manufacturing X-ray Measurement and Inspection Equipment market, they have a market share of more than 96%. Asia Pacific is the largest market with a share of 81%. In terms of product type, 3D X-ray is the largest market segment with a share of more than 74%. In terms of applications, Wafer Inspection is the largest downstream segment, with a market share of about 46%.

This report is a detailed and comprehensive analysis for global Semiconductor Manufacturing X-Ray Measurement and 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 Manufacturing X-Ray Measurement and Inspection Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Semiconductor Manufacturing X-Ray Measurement and 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 Manufacturing X-Ray Measurement and 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 Manufacturing X-Ray Measurement and 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 Manufacturing X-Ray Measurement and 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 Manufacturing X-Ray Measurement and 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 Nordson Corporation, Shenzhen Unicomp Technology, ZEISS, Nikon, Comet Yxlon, Saki Corporation, Omron, KLA Corporation, Viscom, ViTrox Corporation, etc.

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

Market Segmentation

Semiconductor Manufacturing X-Ray Measurement and 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 segment by Type

2D X-ray

3D X-ray

Market segment by Application

Wafer Inspection

Post Packaging Inspection

Chip Inspection

Major players covered

Nordson Corporation

Shenzhen Unicomp Technology

ZEISS

Nikon

Comet Yxlon

Saki Corporation

Omron

KLA Corporation

Viscom

ViTrox Corporation

Bruker

Sxray Raysolution (Shenzhen)

Test Research, Inc

Techvalley

SEC

Shenzhen Zhuomao Technology

Guangdong Zhengye Technology

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)

The content of the study subjects, includes a total of 15 chapters:

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

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

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

Chapter 4, the Semiconductor Manufacturing X-Ray Measurement and 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 Manufacturing X-Ray Measurement and 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 Manufacturing X-Ray Measurement and Inspection Equipment.

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

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