

# Global X-ray Inspection Systems Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global X-ray Inspection Systems market size is expected to reach \$ 2070 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

In 2025, global X-ray Inspection Machines production reached approximately 12,500 units.

X-ray Inspection Systems are systematic solutions for non-destructive testing and analysis of the internal structure of targets based on the principle of X-ray penetration imaging. These systems typically consist of an X-ray source, detector, motion control platform, and image processing software. By imaging differences in X-ray attenuation, they identify internal defects, structural anomalies, and foreign objects. Depending on the application and technology approach, they can be divided into 2D X-ray imaging systems, 3D CT (Computed Tomography) systems, and Automated X-ray Inspection (AXI) systems. Compared to standalone equipment, 'systems' emphasize hardware and software integration and production line integration capabilities, enabling online inspection and data traceability. They are widely used in semiconductor packaging, PCB, battery, automotive parts, aerospace, and food safety, and are a crucial infrastructure for quality control in advanced manufacturing.

The X-ray Inspection Systems industry chain consists of upstream core components, midstream system integration, and downstream applications. The upstream sector includes X-ray sources (microfocus/nanofocus), detectors (flat panel detectors, linear array detectors), high-voltage power supplies, precision motion systems, and image algorithm software, with X-ray sources and detectors having the highest technological barriers. The midstream sector comprises system integrators and equipment manufacturers, such as ZEISS, Nikon Metrology, Waygate Technologies, Nordson, and

Omron, providing standardized and customized solutions. Downstream applications cover fields such as electronics manufacturing, new energy (power batteries), automotive industry, aerospace, food inspection, and public safety. With the development of high-end manufacturing, customers' demands for high resolution, automation, and datafication are increasing, driving the industry chain towards higher precision and intelligence.

Global key manufacturers of X-ray inspection systems include YXLON International, Nikon Metrology, Nordson, ZEISS, etc.

The X-ray Inspection Systems market is expanding steadily, driven by the upgrading of advanced manufacturing and increasing safety requirements. In the electronics sector, advanced packaging and high-density PCBs are accelerating demand for automated X-ray inspection (AXI) systems. In the new energy sector, stricter safety standards for lithium-ion batteries are boosting adoption. In automotive and aerospace industries, higher reliability requirements are further expanding market applications. In food and security sectors, regulatory tightening and safety awareness are supporting stable growth. From a technology perspective, 3D CT and inline CT systems are becoming key high-end solutions, while AI-driven defect recognition and data analytics are improving automation and efficiency. Regionally, Asia represents the largest demand market, while Europe and North America lead in high-end technologies. Over the next 5-10 years, the industry is expected to evolve toward higher resolution, faster throughput, and intelligent inspection, maintaining solid growth momentum.

This report studies the global X-ray Inspection Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for X-ray Inspection Systems 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 Inspection Systems that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global X-ray Inspection Systems total production and demand, 2021-2032, (Units)

Global X-ray Inspection Systems total production value, 2021-2032, (USD Million)

Global X-ray Inspection Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global X-ray Inspection Systems consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: X-ray Inspection Systems domestic production, consumption, key domestic manufacturers and share

Global X-ray Inspection Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global X-ray Inspection Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global X-ray Inspection Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global X-ray Inspection Systems 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 Comet Yxlon, Nikon Metrology, Nordson, ZEISS, Unicomp Technology, Waygate Technologie, Anritsu Industrial Solutions, Viscom, North Star Imaging, Toshiba, 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 Inspection Systems market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, 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 Inspection Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global X-ray Inspection Systems Market, Segmentation by Type:

2D X-Ray System

3D X-Ray System

#### Global X-ray Inspection Systems Market, Segmentation by X-Ray Source:

Microfocus X-Ray Inspection System

Nanofocus X-Ray Inspection System

High Energy X-Ray Inspection System

#### Global X-ray Inspection Systems Market, Segmentation by Structure:

Inline Type

Offline

#### Global X-ray Inspection Systems Market, Segmentation by Application:

General Industry

Automotive Industry

Electronics and Semiconductor Industry

Lithium Battery Industry

Food and Pharmaceutical Packaging

Others

Companies Profiled:

Comet Yxlon

Nikon Metrology

Nordson

ZEISS

Unicomp Technology

Waygate Technologie

Anritsu Industrial Solutions

Viscom

North Star Imaging

Toshiba

Omron

Ishida

Mettler-Toledo International

Sanying Precision Instruments Co., Ltd

ViTrox Corporation

SEC Co.,Ltd

Innometry

Saki Corporation

XAVIS Co., Ltd

Test Research Inc. (TRI)

Meyer Advanced Optoelectronic Technology

VJ Technologies

Dandong Aolong Group Co., Ltd

Sesotec GmbH

Guangdong Zhengye Technology Co., Ltd

Loma

VisiConsult

Dandong Huaray

Shimadzu

Rigaku

SOFTEX

Nissin Electronics

MARS TOHKEN

MinebeaMitsumi Inc

**Key Questions Answered:**

1. How big is the global X-ray Inspection Systems market?
2. What is the demand of the global X-ray Inspection Systems market?
3. What is the year over year growth of the global X-ray Inspection Systems market?
4. What is the production and production value of the global X-ray Inspection Systems market?
5. Who are the key producers in the global X-ray Inspection Systems market?
6. What are the growth factors driving the market demand?

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