



Online X-Ray Inspection Machine with 90KV-130KV Tube Voltage and 5-15 μm Microfocus Size for Real-time Image Processing

Our Product Introduction

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Basic Information

- Place of Origin: China, Shenzhen
- Brand Name: WisdomshowWi
- Model Number: AXI-7600



Product Specification

- Application: Non-destructive Testing And Quality Control
- Microfocus Size: 5-15 μm /5 μm
- Software Features: Real-time Image Processing, Defect Detection, Data Logging
- Tube Voltage: 90KV-130KV
- Imaging Technology: Digital Flat Panel Detector Or Line Scan Detector
- Safety Features: Lead Shielding, Interlock System, Radiation Protection Compliance
- Inspection Type: X-Ray
- Material Compatibility: Suitable For Various Packaging Materials Including Plastic, Glass, Metal, And Cardboard
- Productname: Online X-Ray Inspection Machine



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Product Description:

The Online X-Ray Inspection Machine is an advanced 3D X-ray inspection system designed to meet the rigorous demands of modern manufacturing and quality control processes. Utilizing cutting-edge imaging technology, this automatic X-ray machine employs either a Digital Flat Panel Detector or a Line Scan Detector to deliver precise and high-resolution images. This enables comprehensive inspection of a wide range of products in real time, ensuring the highest standards of quality and safety.

One of the standout features of this online SMT X-ray machine is its adjustable conveyor speed, which typically operates up to 60 meters per minute. This flexibility allows the system to be seamlessly integrated into various production lines, accommodating different throughput requirements without compromising inspection accuracy. The conveyor system ensures smooth and continuous product flow, facilitating efficient online inspection without interrupting manufacturing processes.

The Online X-Ray Inspection Machine is specifically engineered to detect multiple types of defects and contaminants. It excels in identifying metal contaminants, foreign objects, and assessing product integrity. This capability is crucial for industries that require non-destructive testing and quality control to maintain product reliability and consumer safety. By detecting hidden flaws and contaminants that are invisible to the naked eye, this system helps prevent defective products from reaching the market, thereby reducing recalls and enhancing brand reputation.

Power efficiency is another key advantage of this automatic X-ray machine. With a typical power consumption ranging from 1 to 3 kilowatts, it operates economically without sacrificing performance. This low power requirement contributes to reduced operational costs and supports sustainable manufacturing practices, making it an environmentally friendly choice for businesses committed to energy conservation.

Applications of the Online X-Ray Inspection Machine are diverse and span multiple industries, including electronics, pharmaceuticals, food processing, and automotive manufacturing. Its ability to perform non-destructive testing and quality control ensures that products meet strict regulatory standards and customer expectations. In electronics manufacturing, for example, the online SMT X-ray machine is indispensable for inspecting solder joints and component placements on printed circuit boards, detecting defects that could affect device functionality.

Moreover, the 3D X-ray inspection system enhances defect detection by providing volumetric imaging, which offers a more complete understanding of internal structures compared to traditional 2D X-ray systems. This three-dimensional insight allows operators to identify and analyze complex defects with greater accuracy and confidence, ultimately leading to improved product quality and reduced waste. In summary, the Online X-Ray Inspection Machine combines state-of-the-art imaging technology, adjustable conveyor speed, and efficient power consumption to deliver a robust solution for non-destructive testing and quality control. Its ability to detect metal contaminants, foreign objects, and ensure product integrity makes it an indispensable tool for manufacturers aiming to uphold the highest quality standards. Whether integrated as an online SMT X-ray machine in electronics production or deployed across other industries, this automatic X-ray machine provides reliable, high-speed inspection that enhances productivity and protects brand reputation.

Features:

- Product Name: Online X-Ray Inspection Machine
- Application: Non-destructive Testing and Quality Control
- High Resolution: Up to 0.1 mm for precise inspection
- Safety Features: Includes Lead Shielding, Interlock System, and Radiation Protection Compliance
- Weight: Approximately 500-800 Kg for robust industrial use
- Type: Industrial X-ray machine designed for demanding environments
- Technology: Microfocus X-ray inspection system for detailed imaging
- Use Case: Ideal as inline SMT X-ray equipment for seamless integration in production lines

Technical Parameters:

Tube Type	Closed
Tube Voltage	90KV-130KV
Safety Features	Lead Shielding, Interlock System, Radiation Protection Compliance
Machine Dimensions	Varies, Typically Around 2000mm X 800mm X 1500mm
Inspection Type	X-Ray
Software Features	Real-time Image Processing, Defect Detection, Data Logging
Resolution	High Resolution, Up To 0.1 Mm
Conveyor Speed	Adjustable, Typically Up To 60 M/min
Operating Voltage	220V/110V, 50/60Hz
Application	Non-destructive Testing And Quality Control

Applications:

The WisdomshowWi Online X-Ray Inspection Machine, model AXI-7600, originating from Shenzhen, China, is an advanced solution designed for a wide range of product application occasions and scenarios. This cutting-edge X-ray solder joint inspection system is ideal for environments requiring meticulous non-destructive testing (NDT) and stringent quality control measures. Its robust design and sophisticated imaging capabilities make it an indispensable tool in modern manufacturing lines, especially where precision and reliability

are paramount.

One of the primary application occasions for the AXI-7600 is in the electronics manufacturing industry, particularly within surface-mount technology (SMT) production lines. As an inline SMT X-ray machine, it seamlessly integrates into existing production workflows to provide real-time inspection of solder joints. This ensures that potential defects such as solder voids, bridging, or insufficient wetting are detected early, thereby reducing rework and enhancing product reliability.

The AXI-7600 is also extensively used in pharmaceutical and food industries where product integrity and safety are critical. Thanks to its digital flat panel detector or line scan detector imaging technology combined with a closed tube type X-ray source, it can accurately detect metal contaminants and foreign objects inside sealed packages without damaging the product. This capability supports compliance with strict regulatory standards and helps prevent contaminated goods from reaching consumers.

Another notable scenario for this X-ray NDT equipment is in automotive and aerospace component inspection. The machine's precise imaging technology allows for detailed internal examination of critical parts, verifying structural integrity and identifying any hidden flaws or inclusions. This non-destructive testing capability is essential for maintaining safety and performance standards in these high-stakes industries.

Furthermore, the AXI-7600's versatility makes it suitable for use in research and development laboratories, where detailed internal visualization of prototypes and materials is required. By providing clear, high-resolution images, the system aids engineers and scientists in analyzing complex assemblies and improving design quality.

In summary, the WisdomshowWi Online X-Ray Inspection Machine AXI-7600 is a versatile and reliable inline SMT X-ray machine and X-ray NDT equipment solution. Its ability to detect metal contaminants, foreign objects, and ensure product integrity through non-destructive testing makes it suitable for electronics manufacturing, pharmaceutical and food safety, automotive and aerospace industries, as well as research laboratories. Leveraging advanced digital flat panel or line scan detector technology and a closed tube type, it delivers unmatched inspection accuracy and efficiency across diverse application scenarios.

Customization:

WisdomshowWi presents the Online X-Ray Inspection Machine, model AXI-7600, designed and manufactured in Shenzhen, China. This advanced X-ray NDT equipment features a closed tube type and offers high resolution up to 0.1 mm, ensuring precise and reliable inspection results.

Our Microfocus X-ray inspection system boasts a microfocus size ranging from 5 to 15 μm , with options for 5 μm , enabling detailed non-destructive testing and quality control for various applications. The AXI-7600 is tailored to meet the rigorous demands of automatic X-ray machine operations, delivering consistent performance and efficiency.

We offer comprehensive product customization services to adapt the Online X-Ray Inspection Machine to your specific requirements. Whether you need adjustments in resolution, inspection area, or integration with existing workflows, our team is ready to provide solutions that enhance your quality control processes using cutting-edge X-ray technology.

Support and Services:

Our Online X-Ray Inspection Machine is supported by a dedicated technical support team committed to ensuring optimal performance and reliability. We provide comprehensive installation assistance, user training, and routine maintenance services to maximize the efficiency of your inspection processes.

Our technical support includes remote diagnostics, software updates, and troubleshooting to minimize downtime and address any operational issues promptly. We also offer customized calibration and validation services to meet specific industry standards and compliance requirements.

In addition, our service package includes preventive maintenance plans designed to extend the lifespan of your equipment and maintain consistent inspection accuracy. Our experts are available to guide you through system upgrades and integration with your existing production lines, ensuring seamless operation.

We strive to deliver prompt and professional support to help you achieve high-quality inspection results, improve defect detection rates, and enhance overall production efficiency with our cutting-edge Online X-Ray Inspection Machine.

Packing and Shipping:

Product Packaging:

The Online X-Ray Inspection Machine is carefully packaged to ensure safe delivery and optimal protection during transit. The machine is first wrapped in anti-static and shock-absorbing materials to prevent any damage from vibrations or impacts. It is then securely placed inside a custom-designed wooden crate with reinforced corners. The packaging includes foam inserts and padding to immobilize the equipment and protect sensitive components. All packaging materials are compliant with international shipping standards to guarantee the machine arrives in perfect working condition.

Shipping:

We offer worldwide shipping for the Online X-Ray Inspection Machine through reliable freight carriers. Shipping options include air freight for fast delivery and sea freight for cost-effective transportation. The machine is shipped as a palletized cargo with proper labeling, including handling instructions and customs documentation. Customers will receive tracking information once the shipment is dispatched. Additionally, we provide optional insurance coverage to safeguard against any unforeseen damage or loss during shipping.

FAQ:

Q1: What is the brand and model of this Online X-Ray Inspection Machine?

A1: The Online X-Ray Inspection Machine is branded WisdomshowWi, and the model number is AXI-7600.

Q2: Where is the WisdomshowWi AXI-7600 manufactured?

A2: This machine is manufactured in Shenzhen, China.

Q3: What types of inspections can the AXI-7600 perform?

A3: The AXI-7600 is designed for automated online X-ray inspection, capable of detecting internal defects, solder joint issues, and component misalignments in electronic assemblies.

Q4: Is the AXI-7600 suitable for high-speed production lines?

A4: Yes, the AXI-7600 is optimized for integration into high-speed production lines, providing real-time inspection without compromising throughput.

Q5: What kind of user interface does the WisdomshowWi AXI-7600 have?

A5: The AXI-7600 features an intuitive graphical user interface that allows easy programming, monitoring, and analysis of inspection results.



Shenzhen Wisdomshow Technology Co.,Ltd



+86 18926538696



elysia.li@wdsbga.cn



bgaxraymachine.com

No.6,Haosi Western Industry,Shangjing Town,Bao'an District,Shenzhen,China