



Online X-Ray Inspection Machine with Real-time Image Processing Adjustable Conveyor Speed and High Resolution Imaging

Basic Information

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



Product Specification

- Tube Type: Closed
- Conveyor Speed: Adjustable, Typically Up To 60 M/min
- Material Compatibility: Suitable For Various Packaging Materials Including Plastic, Glass, Metal, And Cardboard
- Machine Dimensions: Varies, Typically Around 2000mm X 800mm X 1500mm
- Operating Voltage: 220V/110V, 50/60Hz
- User Interface: Touchscreen Control Panel With Graphical User Interface
- Detection Objects: Metal Contaminants, Foreign Objects, Product Integrity
- Safety Features: Lead Shielding, Interlock System, Radiation Protection Compliance

Our Product Introduction

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Product Description:

The Online X-Ray Inspection Machine is an advanced automatic industrial X-ray machine designed to meet the rigorous demands of modern non-destructive testing (NDT) applications. Engineered with cutting-edge technology, this X-ray NDT equipment offers unparalleled inspection accuracy, efficiency, and safety, making it an indispensable tool for quality control in various industrial sectors. One of the most notable features of this online X-ray inspection system is its adjustable conveyor speed, which typically operates up to 60 meters per minute. This flexibility allows users to customize the inspection process according to their production line requirements, ensuring seamless integration without compromising throughput. The high conveyor speed combined with automatic inspection capabilities significantly enhances productivity while maintaining consistent inspection quality.

The imaging technology employed in this machine leverages either a digital flat panel detector or a line scan detector, both of which contribute to its superior performance. These advanced detectors provide high-resolution images with exceptional clarity and detail, allowing for the detection of even the smallest defects within complex components. The resolution capability of up to 0.1 mm ensures that every minute flaw is captured, facilitating precise analysis and reliable decision-making in quality assurance processes.

This microfocus X-ray inspection system is designed with robust safety features to protect both operators and the environment from radiation exposure. It incorporates lead shielding that effectively contains X-ray emissions within the inspection chamber, minimizing any risk of leakage. Additionally, an interlock system is integrated to prevent accidental exposure by automatically shutting down the X-ray source if the machine's safety doors are opened during operation. The entire system complies strictly with radiation protection standards, ensuring that it meets all regulatory requirements and industry best practices.

The online X-ray inspection machine excels in a wide range of inspection types, from material integrity assessments to defect identification in electronic components, automotive parts, aerospace assemblies, and more. Its automatic functionality reduces the need for manual intervention, enabling continuous, real-time inspection that enhances production line efficiency while maintaining stringent quality control standards.

Moreover, the combination of microfocus X-ray technology and high-resolution detectors allows this system to perform detailed internal inspections without damaging or altering the tested components. This non-invasive method preserves the integrity of the products while providing invaluable insights into their internal structure, solder joints, weld quality, and other critical attributes.

In summary, the Online X-Ray Inspection Machine represents a state-of-the-art solution in the field of industrial X-ray inspection. Its adjustable conveyor speed, advanced digital imaging technology, high resolution, and comprehensive safety features make it an ideal choice for industries seeking reliable, efficient, and safe X-ray NDT equipment. Whether deployed for routine quality control or complex analysis tasks, this microfocus X-ray inspection system delivers consistent, high-quality results that drive operational excellence and product reliability.

Features:

- Microfocus X-ray inspection system for high-resolution imaging
- Imaging technology: Digital Flat Panel Detector or Line Scan Detector
- Suitable for various packaging materials including plastic, glass, metal, and cardboard
- Online SMT X-ray machine designed for continuous production lines
- Inline SMT X-ray machine integration for seamless inspection process
- Touchscreen control panel with graphical user interface for ease of use
- Compact design with a weight of approximately 500-800 Kg
- Efficient defect detection and quality control in real-time
- Robust construction ensuring durability and long-term operation

Technical Parameters:

Application	Non-destructive Testing And Quality Control
Safety Features	Lead Shielding, Interlock System, Radiation Protection Compliance
User Interface	Touchscreen Control Panel With Graphical User Interface
Tube Voltage	90KV-130KV
Microfocus Size	5-15 μm / 5 μm
Weight	Approximately 500-800 Kg
Resolution	High Resolution, Up To 0.1 Mm
Machine Dimensions	Varies, Typically Around 2000mm X 800mm X 1500mm
Software Features	Real-time Image Processing, Defect Detection, Data Logging
Power Consumption	Typically 1-3 KW

Applications:

The WisdomshowWi AXI-7600 is an advanced automatic Industrial X-ray machine designed to meet the stringent demands of modern manufacturing and quality control processes. Originating from Shenzhen, China, this Microfocus X-ray inspection system operates efficiently at 220V/110V and 50/60Hz, making it adaptable to various industrial environments worldwide. Its compact dimensions, typically around 2000mm X 800mm X 1500mm, allow it to fit seamlessly into production lines without compromising space.

This X-ray inspection solution is ideal for a wide range of application occasions and scenarios. In electronics manufacturing, it excels at inspecting printed circuit boards (PCBs) to detect hidden defects such as solder joint issues, component misalignments, and internal cracks, ensuring product reliability and performance. The microfocus size ranging from 5-15 μm , with an option as precise as 5 μm , allows for high-resolution imaging essential for identifying minute defects that are invisible to traditional inspection methods.

In the automotive and aerospace industries, the AXI-7600 plays a crucial role in quality assurance by inspecting critical components like castings, welds, and assemblies for internal flaws such as porosity, inclusions, and structural integrity issues. This ensures compliance with safety standards and enhances product durability. The real-time image processing and defect detection software features enable operators to quickly analyze results, improving throughput and reducing inspection time.

Additionally, the AXI-7600 X-ray inspection solution is well-suited for use in medical device manufacturing, battery inspection, and packaging industries. Its data logging capability assists in traceability and quality documentation, which is vital for regulatory compliance and process optimization. The machine's safety features, including lead shielding, an interlock system, and radiation protection compliance, guarantee a secure working environment for operators, minimizing radiation exposure risks.

Overall, the WisdomshowWi AXI-7600 provides a versatile, reliable, and high-precision X-ray inspection solution tailored for diverse industrial needs. Whether integrated into a high-volume production line or used in R&D laboratories, this Microfocus X-ray inspection system delivers superior performance and robust safety, making it an indispensable tool for modern industrial inspection challenges.

Customization:

WisdomshowWi offers customized solutions for the AXI-7600 Online X-Ray Inspection Machine, designed to meet diverse inspection needs. Originating from Shenzhen, China, this SMT X-ray machine features advanced imaging technology with options for a Digital Flat Panel Detector or Line Scan Detector, ensuring precise and reliable inspection results.

Our automatic X-ray machine is engineered to operate efficiently with a power consumption typically between 1-3 KW and supports an operating voltage of 220V/110V, 50/60Hz. The user-friendly touchscreen control panel with a graphical user interface enhances the ease of operation and monitoring during the inspection process.

Whether you require customization in imaging technology, power specifications, or user interface preferences, WisdomshowWi's AXI-7600 SMT X-ray machine can be tailored to fit your specific production requirements, ensuring optimal performance and quality assurance in your inspection workflow.

Support and Services:

Our Online X-Ray Inspection Machine is designed to provide high-precision, non-destructive inspection for a wide range of industrial applications. To ensure optimal performance and longevity of your equipment, we offer comprehensive technical support and services.

Technical Support:

Our experienced technical support team is available to assist you with installation, calibration, troubleshooting, and routine maintenance guidance. We provide detailed user manuals and software updates to help you maximize the efficiency of your inspection process.

Remote diagnostics and on-site support services are also available to quickly resolve any operational issues.

Training Services:

We offer professional training sessions for your operators and maintenance personnel to ensure proper handling and maintenance of the X-Ray Inspection Machine. Training can be conducted at your facility or through online platforms, covering system operation, safety protocols, and basic troubleshooting techniques.

Maintenance and Repair:

Regular maintenance services are recommended to keep your inspection machine running at peak performance. Our service teams are equipped to perform preventive maintenance, repairs, and parts replacement using genuine components. We also offer service contracts tailored to your specific needs to minimize downtime and extend equipment lifespan.

Software and Upgrades:

Continuous improvements and feature enhancements are available through software updates. Our technical team will notify you of new releases and assist with installation to ensure your system remains up-to-date with the latest inspection technologies and compliance standards.

Consultation Services:

Our experts provide consultation to optimize your inspection processes, including system configuration, workflow integration, and customization options to meet your unique application requirements.

We are committed to delivering reliable and responsive support to help you achieve the best results with your Online X-Ray Inspection Machine.

Packing and Shipping:

The Online X-Ray Inspection Machine is carefully packaged to ensure safe delivery and optimal performance upon arrival. Each unit is securely enclosed in a custom-fitted foam mold within a sturdy, double-walled cardboard box to protect against shocks and vibrations during transit.

All sensitive components are wrapped with anti-static materials to prevent electrostatic discharge damage. The packaging also includes clear handling instructions and warning labels to ensure proper care during unloading and installation.

For shipping, the product is palletized and shrink-wrapped to provide additional stability and protection. We offer multiple shipping options, including air freight and sea freight, tailored to meet customer requirements for delivery speed and cost efficiency.

Upon receipt, customers are advised to inspect the packaging for any visible damage and report any issues immediately. Our customer support team is available to assist with installation guidance and after-sales service to ensure seamless integration of the Online X-Ray Inspection Machine into your production line.

FAQ:

Q1: What is the brand and model number of the 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: The WisdomshowWi AXI-7600 is manufactured in Shenzhen, China.

Q3: What applications is the AXI-7600 suitable for?

A3: The AXI-7600 is ideal for inspecting electronic components, circuit boards, and other industrial products to detect internal defects and ensure quality control.

Q4: Does the AXI-7600 support real-time online inspection?

A4: Yes, the AXI-7600 is designed for online real-time X-ray inspection to provide immediate feedback during the manufacturing process.

Q5: What are the key features of the WisdomshowWi AXI-7600?

A5: Key features include high-resolution imaging, advanced defect detection algorithms, user-friendly interface, and robust construction suitable for continuous online inspection.



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