Online X-Ray Inspection Machine with Min Defect Resolution 1μm and Stage Load Capacity up to 10kg for Max Product Size 500mm × 500mm Inline X-Ray Inspection System

Our Product Introduction

Basic Information

- Brand Name: WISDOMSHOW
- Certification: CE
- Model Number: S-8700
- Minimum Order Quantity: Radiation Safety License (Yue Huan Fu Zheng [B0774]); Exemption Filing For Radioisotopes And Radiation Devices
- Packaging Details: Standard Export Wooden Case Packaging
- Payment Terms: T/T,Negotiable
- Supply Ability: Approx. 50-100 Units/month



Product Specification

- Focal Spot Size: 2μm
- Min Defect Resolution: 1μm
- Total Power: 2500W
- Dimensions: L1560×W1780×H1830mm
- Stage Load Capacity: ≤10kg
- Max Product Size: 500mm × 500mm
- Power Supply: 220V/50-60Hz
- Machine Weight: Approx.4000kg
- Highlight: **Min Defect Resolution 1μm Online X-Ray Inspection Machine**

  ,

  Stage Load Capacity up to 10kg Inline X-Ray Inspection System

  ,

  Max Product Size 500mm × 500mm Online SMT



More Images



for more products please visit us on bgaxraymachine.com

for more products please visit us on bgaxraymachine.com

Product Description

Product Description:

The Online X-Ray Inspection Machine is a state-of-the-art solution designed to meet the rigorous demands of modern manufacturing environments, particularly in the electronics industry. This advanced system is engineered to deliver exceptional precision and reliability, making it an indispensable tool for quality control processes. Featuring a minimum defect resolution of less than 1 micrometer (1μm), the machine ensures that even the tiniest flaws in solder joints and other critical components are detected with unparalleled accuracy. This level of precision is vital for maintaining the integrity and performance of high-density electronic assemblies.

Capable of accommodating products up to 500mm * 500mm in size, the Online X-Ray Inspection Machine offers remarkable versatility for a wide range of applications. Whether inspecting small circuit boards or larger assemblies, this equipment can handle diverse product dimensions without compromising inspection quality. The stage load capacity supports weights of up to 10 kilograms (≤10kg), enabling it to manage various product types and sizes efficiently. This ensures that the machine can be seamlessly integrated into different production lines, enhancing operational flexibility.

Weighing approximately 4000 kilograms, the robust construction of this machine underscores its durability and industrial-grade performance. The substantial weight contributes to system stability, which is essential for achieving consistent inspection results, especially in high-speed inline production environments. Despite its solid build, the machine is designed for ease of installation and integration within existing manufacturing setups.

With a total power consumption of 2500 watts, the Online X-Ray Inspection Machine balances high performance with energy efficiency. This power specification supports the advanced X-ray source, high-resolution detectors, and precision motion control systems that collectively enable the machine to perform complex inspections rapidly and accurately. The relatively moderate power requirement also helps reduce operational costs, making it a cost-effective choice for continuous inline inspection processes.

As an integral component of an X-ray solder joint inspection system, this machine excels in detecting solder joint defects such as voids, insufficient solder, bridging, and misalignment. These defects can critically impact the reliability and functionality of electronic devices, making thorough inspection essential. The system's capability to perform inline SMT X-ray inspection means it can be seamlessly incorporated into Surface Mount Technology (SMT) production lines, providing real-time quality assurance without slowing down manufacturing throughput.

The Online X-Ray Inspection Machine's inline SMT X-ray equipment design facilitates automated, non-destructive testing, enabling manufacturers to identify defects early in the production process. This proactive approach minimizes rework and scrap rates, ultimately improving yield and reducing costs. The machine's precision and speed are particularly beneficial for industries where high reliability and stringent quality standards are mandatory, such as automotive electronics, aerospace, medical devices, and consumer electronics.

In summary, the Online X-Ray Inspection Machine is a powerful and precise inline SMT X-ray equipment solution that combines high-resolution imaging, robust construction, and versatile product handling capabilities. Its ability to detect defects smaller than 1μm, accommodate product sizes up to 500mm * 500mm, and support loads up to 10kg makes it a highly adaptable tool for various manufacturing needs. With an approximate weight of 4000kg and a total power consumption of 2500W, this machine is designed to deliver reliable, energy-efficient performance in demanding production environments. As a critical element of any X-ray solder joint inspection system, it ensures superior quality control and enhances overall manufacturing efficiency.

Features:

Product Name: Online X-Ray Inspection Machine
Min Defect Resolution: 1μm for high precision detection
Total Power Consumption: 2500W ensuring efficient operation
Power Supply: 220V/50-60Hz compatible with standard electrical systems
Dimensions: L1560*W1780*H1830mm, compact design for easy integration
Max Product Size: 500mm * 500mm suitable for a wide range of applications
Advanced inline SMT X-ray equipment for seamless production line inspection
Comprehensive X-ray inspection system providing reliable defect analysis
Innovative X-ray inspection solution designed to enhance quality control

Technical Parameters:

Focal Spot Size	2μm
Power Supply	220V/50-60Hz
Stage Load Capacity	≤10kg
Total Power	2500W
Max Product Size	500mm * 500mm
Machine Weight	Approx. 4000kg
Min Defect Resolution	1μm
Dimensions (L*W*H)	1560mm * 1780mm * 1830mm

Applications:

The WISDOMSHOW S-8700 Online X-Ray Inspection Machine is an advanced X-ray inspection system designed to meet the rigorous demands of modern manufacturing and quality control environments. Its high precision with a focal spot size of 2μm and minimum defect

resolution of less than 1μm makes it ideal for applications requiring meticulous inspection and defect detection. The machine's compact dimensions (L1560*W1780*H1830mm) and robust weight of approximately 4000kg ensure stability and durability in various industrial settings.

This Real-time X-ray machine is perfectly suited for the electronics manufacturing sector, especially for Surface-Mount Technology (SMT) lines where non-destructive inspection of solder joints, component placement, and internal defects is critical. The online SMT X-ray machine enables continuous monitoring of production lines, facilitating immediate detection of faults and reducing the risk of defective products reaching the market. Its total power consumption of 2500W is optimized for industrial efficiency, balancing performance with energy use.

Beyond electronics, the WISDOMSHOW S-8700 is widely applicable in aerospace, automotive, and medical device manufacturing, where stringent quality assurance is paramount. Its CE certification and compliance with Radiation Safety License requirements (Yue Huan Fu Zheng [B0774]) ensure that it meets international safety standards, providing users with confidence in its safe operation. The system's packaging in a standard export wooden case guarantees secure delivery and easy installation at customer sites worldwide.

With a supply capacity of approximately 50-100 units per month and flexible payment terms such as T/T and negotiable options, the WISDOMSHOW S-8700 Online X-ray inspection system is accessible to a broad range of businesses from small workshops to large-scale production facilities. Typical application scenarios include inline quality control in SMT assembly lines, real-time inspection in semiconductor fabrication, and detailed internal examination of complex components without damaging them.

In summary, the WISDOMSHOW S-8700 Online SMT X-ray machine is an indispensable tool for industries that demand precision, reliability, and efficiency in defect detection. Its real-time X-ray capabilities streamline inspection processes, enhance product quality, and reduce waste, making it an essential asset for any advanced manufacturing operation.

Shenzhen Wisdomshow Technology Co.,ltd

+86 18926538696 elysia.li@wdsbga.cn bgaxraymachine.com

No. 3 Kangtai 3rd Road, Shatou Community, Shajing Street, Bao'an District, Shenzhen, China