3500kg X-ray Inspection System with 570mm × 570mm Loading Area and 5μm Focal Spot Size for Component Analysis

Our Product Introduction

Basic Information

- Brand Name: WISDOMSHOW
- Certification: CE
- Model Number: S-9200
- 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

- Max Sample Weight: ≤10kg
- Loading Area: 570mm × 570mm
- Machine Weight: Approx.3500kg
- Total Power: 2500W
- Power Supply: 220V/50-60Hz
- Max Inspection Area: 550mm × 550mm
- Focal Spot Size: 5μm
- Dimensions: L1650×W1850×H1950mm
- Highlight: **3500kg X-ray Inspection System**, **570mm × 570mm Loading Area X-ray Inspection Machine** , **5μm Focal Spot Size X-ray Inspection System**

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Product Description

Product Description:

The Online X-Ray Inspection Machine is an advanced real-time X-ray machine designed specifically for the electronics manufacturing industry, particularly for the inspection of Surface Mount Technology (SMT) components. This state-of-the-art online SMT X-ray machine provides highly accurate, non-destructive inspection capabilities, enabling manufacturers to detect hidden defects and ensure the highest quality standards in their production lines.

With compact dimensions of L1650*W1850*H1950mm, the Online X-Ray Inspection Machine fits seamlessly into most manufacturing environments without requiring excessive floor space. Despite its relatively small footprint, this machine offers a generous loading area of 570mm * 570mm, providing ample space for inspecting various sizes of circuit boards and SMT assemblies. This makes it highly versatile and suitable for different production requirements.

The power supply requirements for this online SMT X-ray machine are standard, operating at 220V with a frequency range of 50-60Hz. This ensures compatibility with a wide range of industrial power systems globally, facilitating easy installation and integration into existing production lines. The machine operates with a total power consumption of 2500W, balancing high performance with energy efficiency to minimize operational costs.

One of the standout features of this real-time X-ray machine is its focal spot size of just 5μm. This ultra-fine focal spot size is critical for achieving exceptional image resolution and clarity, allowing for detailed inspection of even the smallest SMT components and solder joints. The precision provided by this focal spot size enhances defect detection capabilities, including the identification of voids, misalignments, solder bridge faults, and other common manufacturing defects that can compromise product reliability.

As an online SMT X-ray machine, this product is designed to be integrated directly into the production line, enabling continuous, real-time inspection without interrupting the manufacturing process. This online operation capability significantly increases inspection throughput and reduces bottlenecks, helping manufacturers maintain high productivity rates while ensuring quality control. The real-time imaging feature allows operators to instantly view and analyze X-ray images, facilitating quicker decision-making and faster response to detected issues.

Moreover, the Online X-Ray Inspection Machine incorporates advanced software algorithms and user-friendly interfaces to streamline the inspection process. Automated defect recognition and reporting tools reduce the need for manual intervention, minimizing human error and enhancing overall inspection accuracy. The machine's robust design and reliable performance make it suitable for 24/7 operation in demanding industrial environments.

In summary, the Online X-Ray Inspection Machine is an essential tool for electronics manufacturers seeking to improve product quality and reliability through precise, real-time inspection of SMT assemblies. Its compact size, efficient power consumption, fine focal spot size, and generous loading area make it a versatile and effective solution for modern production lines. By integrating this online SMT X-ray machine, manufacturers can achieve higher yield rates, reduce waste, and ensure that only defect-free products reach the market.

Features:

Product Name: Online X-Ray Inspection Machine
Max Sample Weight: ≤10kg
Total Power: 2500W
Max Inspection Area: 550mm * 550mm
Dimensions: L1650*W1850*H1950mm
Focal Spot Size: 5μm
Advanced X-ray solder joint inspection system for precise defect detection
High-resolution 3D X-ray inspection system for comprehensive analysis
Real-time X-ray machine enabling immediate inspection results and feedback

Technical Parameters:

Machine Weight	Approx. 3500kg
Max Sample Weight	≤10kg
Focal Spot Size	5μm
Dimensions (L*W*H)	1650*1850*1950mm
Loading Area	570mm * 570mm
Power Supply	220V/50-60Hz
Max Inspection Area	550mm * 550mm
Total Power	2500W

Applications:

The WISDOMSHOW S-9200 Online X-Ray Inspection Machine is an advanced solution designed specifically for the inspection and quality control of printed circuit boards (PCBs) and other electronic components. This PCB X-ray machine is ideal for use in manufacturing environments where precision and reliability are paramount, ensuring that every product meets strict quality standards. Its compact dimensions (L1650*W1850*H1950mm) and loading area of 570mm * 570mm make it suitable for integration into existing production lines without occupying excessive space.

One of the primary application occasions for the WISDOMSHOW S-9200 is in electronics manufacturing plants where it performs non-

destructive testing to detect hidden defects within PCBs, such as solder joint failures, voids, and misalignments. The machine's capability to handle samples weighing up to 10kg makes it versatile enough for inspecting a wide range of PCB sizes and complexities. Thanks to its powerful 2500W total power and stable 220V/50-60Hz power supply, the PCB X-ray machine delivers consistent performance during continuous online inspections.

The S-9200 model is also highly suitable for research and development laboratories engaged in the design and testing of new electronic components. Engineers and technicians can utilize the machine to analyze internal structures without damaging the samples, enabling rapid iterations and improvements. Additionally, its CE certification and compliance with Radiation Safety License (Yue Huan Fu Zheng [B0774]) and Exemption Filing for Radioisotopes and Radiation Devices ensure safe operation in various industrial environments.

Another key scenario for deploying the WISDOMSHOW PCB X-ray machine is quality assurance departments in contract manufacturing organizations (CMOs) and original equipment manufacturers (OEMs). The machine's high supply ability of approximately 50-100 units per month and standard export wooden case packaging make it an accessible choice for businesses scaling up their inspection capabilities globally. Payment terms such as T/T and negotiable options facilitate smooth procurement processes.

In summary, the WISDOMSHOW S-9200 Online X-Ray Inspection Machine is an essential tool for electronics manufacturers, R&D labs, and quality assurance teams requiring precise, reliable, and safe PCB inspection. Its advanced features and certifications position it as a leading PCB X-ray machine capable of enhancing product quality and operational efficiency across multiple industrial scenarios.

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