5μm Focal Spot Size 1600W Offline X-Ray Inspection Machine with 480mm × 420mm Inspection Area for Semiconductor Analysis

Our Product Introduction

Basic Information

- Brand Name: Wisdomshow
- Model Number: S7000



Product Specification

- Machine Weight: Approx. 1250 KG
- Total Power: 1600W
- Focal Spot Size: 5μm
- Dimensions: L1400×W1400×H1600mm
- Max Inspection Area: 480mm × 420mm
- Temperature Control: Automatic
- Resolution: 5.8 LP/mm
- Stage Load Capacity: 10 KG
- Highlight: **5μm Focal Spot Offline X-Ray Inspection Machine**, **1600W Industrial X-Ray Inspection System**, **480mm × 420mm X-Ray Inspection Equipment**



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 Offline X-Ray Inspection Machine is a state-of-the-art Industrial X Ray Machine designed to provide precise and reliable inspection solutions for a variety of industrial applications. With its robust construction and advanced imaging technology, this machine is ideal for quality control, defect detection, and detailed analysis in manufacturing environments. It serves as an indispensable tool for industries requiring non-destructive testing and inspection, including electronics, automotive, aerospace, and more.

Weighing approximately 1250 KG, the Offline X-Ray Inspection Machine is built with durability and stability in mind, ensuring consistent performance even in demanding industrial settings. Its compact dimensions of L1400*W1400*H1600mm make it suitable for integration into existing production lines or laboratory setups without occupying excessive space. Despite its relatively compact footprint, the machine offers a generous maximum inspection area of 480mm * 420mm, allowing users to accommodate a wide range of component sizes and assemblies for thorough examination.

One of the key features of this Industrial X Ray Machine is its high-precision Industrial X Ray Tube, which boasts a focal spot size of just 5μm. This fine focal spot size enables the machine to deliver high-resolution images with exceptional clarity and detail, essential for identifying minute defects such as cracks, voids, solder joint issues, and component misalignments. The superior imaging capability ensures that users can achieve accurate diagnostics and maintain stringent quality standards in their production processes.

The Offline X-Ray Inspection Machine is particularly well-suited for inspecting surface-mount technology (SMT) components, making it an ideal SMT X Ray Machine for electronics manufacturers. The machine's advanced imaging system can easily penetrate complex assemblies and densely packed circuit boards, providing clear visualization of internal structures without damaging the components. This capability significantly enhances the efficiency and effectiveness of failure analysis, process optimization, and quality assurance in electronics manufacturing.

The machine's inspection platform features a stage load capacity of up to 10 KG, accommodating various types of samples, including heavy or bulky assemblies. This flexibility allows users to inspect a diverse array of products and components with ease, enhancing the machine's versatility across different industries and inspection requirements. The stage is designed for smooth and precise movement, facilitating accurate positioning and scanning during the inspection process.

Additionally, the Offline X-Ray Inspection Machine incorporates user-friendly controls and software interfaces, enabling operators to perform inspections efficiently with minimal training. The intuitive interface supports image acquisition, analysis, and reporting, streamlining workflow and improving productivity. The machine's robust build and reliable performance minimize downtime and maintenance needs, making it a cost-effective investment for businesses focused on quality and safety.

In summary, the Offline X-Ray Inspection Machine combines advanced Industrial X Ray Tube technology with practical design features to deliver a high-performance, reliable inspection solution. Its precise imaging capabilities, suitable dimensions, and substantial stage load capacity make it an excellent choice for various industrial applications, especially in the electronics sector as an SMT X Ray Machine. Whether used for routine quality control or detailed failure analysis, this machine enhances product reliability and manufacturing efficiency, ensuring that businesses can meet the highest standards of quality assurance.

Features:

Product Name: Offline X-Ray Inspection Machine
Automatic Temperature Control for stable operation
Total Power Consumption: 1600W
Machine Weight: Approximately 1250 KG
Maximum Inspection Area: 480mm * 420mm
High Precision Focal Spot Size: 5μm
Ideal SMT X Ray Machine for detailed PCB inspections
Advanced Inspection Tools integrated for thorough analysis
Reliable Industrial X Ray Machine suitable for various manufacturing environments

Technical Parameters:

Stage Load Capacity	10 KG
Total Power	1600W
Resolution	5.8 LP/mm
Dimensions	L1400*W1400*H1600mm
Focal Spot Size	5μm
Max Inspection Area	480mm * 420mm
Temperature Control	Automatic
Machine Weight	Approx. 1250 KG

Applications:

The Wisdomshow S7000 Offline X-Ray Inspection Machine is a versatile and powerful tool designed for a wide range of product application occasions and inspection scenarios. With its compact dimensions of L1400*W1400*H1600mm and a robust machine weight of approximately 1250 KG, this industrial X Ray machine offers stability and precision in various environments. Its high resolution of 5.8 LP/mm and a maximum inspection area of 480mm * 420mm make it ideal for detailed internal inspections, ensuring that even the

smallest defects or inconsistencies can be detected with ease.
This advanced inspection tool is widely used in manufacturing and quality control settings where non-destructive testing is critical. For instance, in the electronics industry, the S7000 is perfect for examining printed circuit boards (PCBs), solder joints, and components without dismantling the product, thus saving time and reducing waste. The industrial X Ray tube integrated into the machine provides clear and sharp imaging, allowing operators to identify faults such as cracks, voids, or misalignments that could affect product reliability.
In the automotive and aerospace sectors, the Wisdomshow S7000 plays a crucial role in inspecting safety-critical parts, such as castings, welds, and composite materials. The machine's stage load capacity of 10 KG supports a variety of components, ensuring that parts can be securely positioned during inspection for accurate results. Additionally, this offline industrial X Ray machine is suitable for use in research and development laboratories, where prototype components need thorough evaluation before mass production.
Quality assurance departments also benefit from the S7000's capabilities in inspecting packaging integrity, especially for pharmaceuticals and food products, where contamination or packaging defects could have serious consequences. The standalone nature of this offline inspection tool means it can be deployed flexibly across different production lines or inspection stations without requiring constant network connectivity.
Overall, the Wisdomshow S7000 Offline X-Ray Inspection Machine combines cutting-edge industrial X Ray technology with user-friendly operation, making it an indispensable inspection tool across diverse industrial applications. Its precise imaging, reliable construction, and adaptable design ensure that it meets the stringent demands of modern quality control and product assurance processes.

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