Automatic Temperature Control Offline X-Ray Inspection Machine with 1600W Total Power and 5μm Focal Spot Size for Electronics Inspection

Our Product Introduction

Basic Information

- Brand Name: Wisdomshow
- Model Number: S7000



Product Specification

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



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Product Description

Product Description:

The Offline X-Ray Inspection Machine is a state-of-the-art solution designed to meet the rigorous demands of modern industrial inspection processes. This advanced electronics X ray machine is engineered to provide precise and reliable non-destructive testing, making it an indispensable tool in quality control and assurance across various industries. With a robust construction and innovative features, it delivers exceptional performance for detailed internal inspection of electronic components, assemblies, and other critical products.

Weighing approximately 1250 KG, the machine boasts a sturdy and stable frame that ensures consistent accuracy and durability during operation. Its substantial weight contributes to minimizing vibrations and enhancing image clarity, which is crucial for detecting minute defects or inconsistencies within complex electronic assemblies. This offline design allows it to be easily integrated into manufacturing and testing workflows without dependency on continuous network connections, offering flexibility and reliability in diverse environments.

The maximum inspection area of 480mm * 420mm provides a generous workspace, accommodating a wide range of component sizes and configurations. This spacious inspection window enables comprehensive analysis of large circuit boards, intricate electronic modules, and other sizable parts, facilitating thorough evaluation without the need for multiple scans or repositioning. This feature significantly improves inspection efficiency and throughput, making the machine ideal for high-volume production lines as well as specialized testing labs.

At the core of the machine's imaging capabilities is a focal spot size of just 5μm, which ensures ultra-fine resolution and detailed visualization of internal structures. This fine focal spot size enables the detection of microscopic defects such as solder joint flaws, voids, cracks, and foreign materials that could compromise product integrity. The high-resolution imaging performance of this electronics X ray machine empowers quality control teams to identify potential issues early in the production process, reducing rework, minimizing waste, and enhancing overall product reliability.

Temperature control is a critical aspect of maintaining consistent and accurate inspection results, and this offline X-Ray Inspection Machine is equipped with an automatic temperature control system. By precisely regulating the operating temperature, the machine maintains optimal performance even under varying environmental conditions. This automatic temperature control not only extends the lifespan of sensitive internal components but also ensures stable imaging quality, reducing the risk of thermal drift and associated inaccuracies during prolonged inspection sessions.

The total power consumption of the machine is 1600W, reflecting its energy-efficient design without compromising on performance. This balanced power requirement supports robust imaging capabilities and reliable operation while keeping energy costs and environmental impact at manageable levels. The machine's power management system is optimized to provide consistent output and accommodate continuous use, making it suitable for demanding production environments where uptime and reliability are paramount.

As a versatile inspection tool, the Offline X-Ray Inspection Machine integrates seamlessly with existing quality control systems and offers user-friendly interfaces for easy operation. Its advanced software solutions provide comprehensive image analysis, annotation, and reporting features, enabling inspectors to make informed decisions quickly and accurately. This electronics X ray machine is an essential component of modern inspection tools, delivering unparalleled precision and efficiency that drive product excellence and customer satisfaction.

In summary, the Offline X-Ray Inspection Machine stands out as a highly reliable and efficient inspection tool tailored for the electronics industry and beyond. Its combination of a substantial machine weight of approximately 1250 KG, a large maximum inspection area of 480mm * 420mm, a fine 5μm focal spot size, automatic temperature control, and a total power consumption of 1600W makes it an excellent choice for organizations seeking to enhance their inspection capabilities. Whether for detecting defects in complex electronic assemblies or ensuring the integrity of critical components, this electronics X ray machine delivers superior performance, accuracy, and durability essential for maintaining the highest quality standards.

Features:

Product Name: Offline X-Ray Inspection Machine

Stage Load Capacity: 10 KG

Focal Spot Size: 5μm

Total Power: 1600W

Dimensions: L1400*W1400*H1600mm

Machine Weight: Approx. 1250 KG

Equipped with a high-performance Industrial X Ray Tube for precise imaging

Designed as an Industrial X Ray Machine suitable for various inspection applications

Ideal Electronics X Ray Machine for detailed inspection of electronic components

Technical Parameters:

Total Power	1600W
Resolution	5.8 LP/mm
Temperature Control	Automatic
Stage Load Capacity	10 KG
Dimensions	L1400 * W1400 * H1600 mm
Machine Weight	Approx. 1250 KG
Max Inspection Area	480 mm * 420 mm
Focal Spot Size	5 μm

Applications:

The Wisdomshow S7000 Offline X-Ray Inspection Machine is a state-of-the-art device designed to meet the rigorous demands of modern industrial inspection environments. With its compact dimensions of L1400*W1400*H1600mm and a substantial machine weight of approximately 1250 KG, this robust unit is engineered for stability and precision during operation. The S7000 model incorporates an advanced Industrial X Ray Tube that delivers exceptional imaging quality, boasting a resolution of 5.8 LP/mm. This high resolution enables detailed inspection of intricate components, making it an indispensable tool for quality control in electronics manufacturing.

One of the primary application occasions for the Wisdomshow S7000 is in the thorough examination of Ball Grid Arrays (BGA) in printed circuit boards. As a specialized BGA X Ray Inspection Machine, it allows manufacturers to non-destructively inspect solder joint integrity, detect hidden defects such as voids, misalignments, or insufficient solder, and ensure the reliability of electronic assemblies. This capability is critical in the production of high-performance consumer electronics, automotive electronics, aerospace components, and medical devices where failure is not an option.

Furthermore, the S7000 is ideal for use in research and development laboratories, where prototype PCBs require detailed analysis before mass production. Its automatic temperature control system ensures consistent operating conditions, which is essential for maintaining image quality and extending the lifespan of the Industrial X Ray Tube. The machine's total power consumption of 1600W reflects its energy-efficient design, balancing high performance with operational economy.

Manufacturing plants, quality assurance facilities, and repair centers benefit greatly from integrating the Wisdomshow BGA X Ray Inspection Machine into their workflow. It is particularly suited for offline inspection scenarios where detailed analysis is needed without disrupting production lines. Additionally, the S7000's user-friendly interface and reliable construction make it an excellent choice for both experienced technicians and engineers new to X-ray inspection technology.

In summary, the Wisdomshow S7000 Offline X-Ray Inspection Machine is a versatile and powerful solution for diverse industrial applications, ranging from electronics manufacturing and quality control to R&D and repair services. Its precise imaging capabilities, robust build, and advanced features ensure that it remains an essential tool for detecting defects and guaranteeing product quality in demanding inspection scenarios.

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