

XB5100

Semi-Auto Winding Battery X-Ray Inspection Machine

This equipment is suitable for inspecting various process types of batteries in the lithium battery industry, mainly for analyzing the effectiveness of internal defects in the product; Configure measurement software with strong compatibility and complete functions to automatically measure and judge the tested object, and display the judgment result interface, allowing users to easily identify defective products.

X-Ray Tube Parameters

Tube Type	Reflective Sealed Micro-Focus X-Ray Tube
Tube Voltage Range	40-90KV/40-130KV
Tube Current Range	10-200uA/10-300uA
Maximum Output Power	8W-39W
Micro Focus Size	5-15 μ m

Flat Panel Detector Parameters

Detector Type	Amorphous silicon flat panel detector (optional)
Pixel Matrix	1536 \times 1536
Field of View Range	130mm \times 130mm
Resolution	5.8Lp/mm
Image Frame Rate(1x1)	20fps
AD Conversion Bit	16bits

Inspection Efficiency and Accuracy Parameters

Inspection Accuracy	15 μ m
Repetitive Testing Accuracy	\pm 30 μ m
Inspection Speed	\geq 1.0/inspection point (excluding loading and unloading time)

Stage Parameters

Maximum Sample Size	400mmX400mm
Load Capacity	\leq 8Kg

Other Parameters

Control System	Industrial Computer Win10 (64 bit)
International Radiation Safety Standards	\leq 1 μ SV/hr
Size	1142x1177x1790mm
Weight	About 1000Kg
Power Supply	AC220V 10A、50-60Hz



Product Features

Measurement Function:

Linear distance, circle diameter, concentric circles, and distance between points and the center of a circle can achieve 2.5D inspection.

CNC Function:

Memory programming, automatic recording and inspection of motion paths, accurate positioning, convenient for small batch repeated inspection.

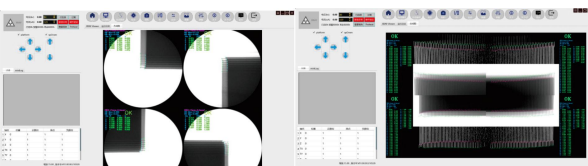
Navigation and Positioning Function:

Large navigation window, mouse click on any area of the tested image, automatically and quickly locate the target inspection point.

Image Processing Function:

Supports multiple image formats, allowing for real-time processing and online storage of detected images.

Operational Applications



Applications

