Technical Data

Model: Xmark 8 (Inline X Ray Inspection machine)

Name: Microfocus X-RAY Inspection System

Manufacturer: Shenzhen General Technology Co., Ltd

Professional X-RAY Inspection System Manufacturer

Telephone: 86 18587477426 Web: www.generalsmt.com www.smtmachine.co

X-Ray Solution Xmark 8

Microfocus X-Ray Inspection System Manufacturer



(1) Applications

Reel Component, reel material

Triode Inline Inspection

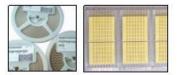








Connector Inline Inspection



(2) Functions and Features

Function	Advantages
Long life X-ray tube, maintenance free for	Adopt the world's top Japanese
life	Hamamatsu X-ray source
Fault less than 2.5µm can be detected.	Easy to distinguish the gold wire bending
High detection repeat accuracy.	and break of the semiconductor package.

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Powerful CNC Measuring Function, can inspect automatically, testing program can be edited.	Suitable for large-scale inspection and improve detection efficiency.
Small body, easy to place, less space	Can be used in laboratories, materials rooms, etc.
Large navigation view, table will move to where you click the mouse.	Very easy to operate, quickly find item defects and improve detection efficiency

XL5800 is a small precision micro focus spot X-ray inline inspection equipment, with small footprint and compact design, the system can be able to automatic feeding, automatic inspection, automatic sorting and punching marking, it is developed for inspection of reels and trays and inspection in automatic feeding production line.

Application Advantage:

- Compact design, easy to install and operate
- Strong compatibility, the conveyor belt can be adjusted in both directions
- Servo feeding with stability and reliability
- Easy to use software, low operating costs
- Durable long life
- In-line inspection, with automatic sorting of defective products and marking
- Automatic inspection of various reels and trays
- Cut or jet mark the defective products when being inspected

Automatic Void Ratio Calculation

Enhanced BGA inspection function

XL5800 can quickly select and mark a single solder ball, or select the solder balls to be inspected by matrix box ; it can manually or automatically identify BGA solder balls and complete the inspection. Follow the system guidelines to easily complete the inspection process and ensure accurate and reliable inspection results.

Size Measurement

Measuring tools

Distance, distance ratio, lines distance, angle, arrow mark, circle radius, points distance, circle centers distance, circumference, hand-drawn polygon, hand-drawn freeform etc., can add text description.

(3) Hardware Technical Parameters

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	X-Ray Solut	ion ZM-XL5800 F	lardwa	are technical parameters	
		Tube type		Sealed microfocus X-ray tube	
	X-RAY tube	Voltage Range		40-90kV	
		Current Range		10-200 µA	
		Focal spot size		15µm	
		Cooling method		Convection cooling	
		Detector type		HD digital flat panel detector (FPD)	
	Detector	Field of View		130mm*130mm	
		Pixel matrix		1536*1536 pixels	
		Magnification		80X	
		Image speed		20fps	
	Inspection	Repeated test accura	асу	Зµm	
	speed and accuracy	Software inspection	speed	3.0s/point (Excluding loading and unloading time)	
	CNC			products can be stored in categories	
	programming			an set the detection route or	
				ducts, and the program automatically	
-		completes the detect			
н	Operating platform	Mouse, keyboard, 2 operating modes		g modes	
Α		Inner lead plate	5 mm t	hick lead plate (isolate radiation)	
R	Shell	Dimensions	L1850mm×W1400mm×H1970mm		
		Weight	About ²		
D W		Computer	24 inches Widescreen LCD/I3 CPU/2G Memory/200G hard disk		
A			Industrial PC WIN10 64bits		
R		Power supply Reel and tray width		0V 10A/110V 15A 50-60HZ rom 30 to110mm	
E	Other parameters	compatible			
	parametere	Max Object Width Range	30mm-	150mm	
		Temperature and humidity	22±3°C 50%RH±10%RH		
		Total power	1500W		
	Safety	Radiation safety standard	Adopt steel-lead-steel protection structure. Any position 20mm from the shell, radiation≤1µSV/H, in line with international standards		
		Safety interlock	Two hig the doo	gh-sensitivity limit switches are set in or opening position for equipment nance. Once the door is opened, the	
		function	X-ray tu immedi	ube will automatically power off ately.	
		Electromagnetic electron		bbservation window has an comagnetic switch, and the observation bw cannot be opened when the X-ray	
		switch protection	window	cannot be opened when the X-rav	

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Observation window	With an observation window, the sample can be observed directly from the window while the machine is running.
Emergency stop	The emergency stop is set in the prominent position of the operation console and the equipment body, can be pressed to quickly cut off the power supply system.
X-ray tube	Five minutes after the machine has no
automatic	operation, the X-ray tube will automatically
protection	power off and enter the protection state.
Automatic machine protection	Once any door or window of the machine is turned on, the machine immediately enters the shutdown protection state, and any operation cannot be performed.

(4) Software technical parameters

X-Ray Solution ZM-XL5800 Software technical parameters Full-featured X-ray image analysis software, including image contrast enhancement and filtering functions, measurement functions, and CNC programming			
	Bad welding judgment	BGA short	Preset NG images, software contrasts and recognizes automatically
		BGA cold solder	Preset NG images, software contrasts and recognizes automatically
		BGA voids	Preset NG images, software contrasts and recognizes automatically
		BGA false solder	Preset NG images, software contrasts and recognizes automatically
	CNC function	Motion mode	Test parameters of different products, can be classified and stored, call at any time
S O		programming (CNC)	Can set the inspection route or sequence of one or more products
F T	Navigation window		e is displayed on the screen in real time, e picture to control the movement.
W A R E Voids			Optional manual/automatic measurement, single/multi-ball measurement mode. The bubble area standard can be preset for automatic measurement.
	measurement	Report generation	The judgment result can be directly marked on the picture, or directly generate a CSV file or a report document according to the analysis results.

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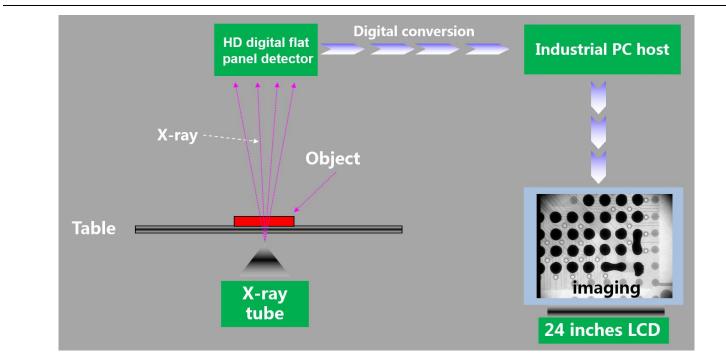
	Measurement function	Area measurement	Preset area size standard, NG product prompt function.
		Size measurement	Distance, gold line curvature, slope, angle, etc.
		Automatic positioning	Power on table auto zero function, system reset
	Motion control	Batch test	Import pre-production program to realize fast automatic positioning function, convenient for large-scale inspection and product series management
		Field of view switching	The interface can be quickly switched between 2 inches and 4 inches to realize the two detection requirements of large field of view browsing and partial detail observation, saving detection time and improving detection efficiency.
		Control mode	CNC Automatic control, manual control keyboard, mouse, 3 modes are optional.
	Auxiliary positioning	Laser positioning	Red dot laser positioning, double auxiliary, easy to navigate
	Navigation magnifier	It can enlarge the product detection points in the navigation window, which is easy to accurately locate and improve the detection efficiency.	

(5) X-Ray Working Principle

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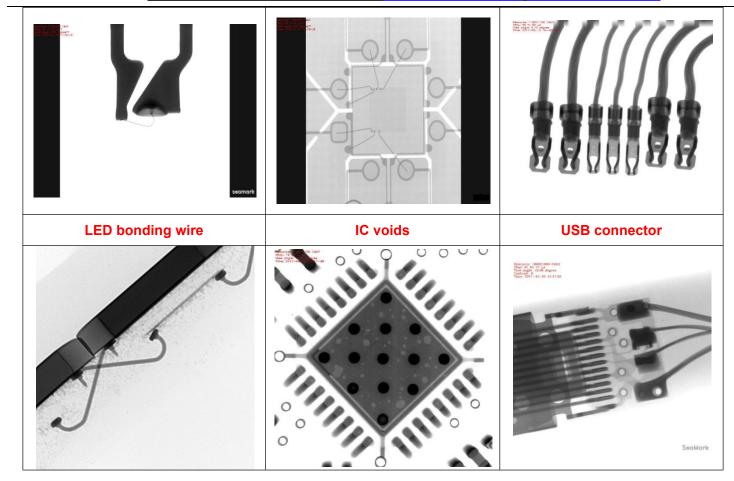
(6) X-RAY applications

PCB BGA	PCB BGA	iPhone camera
		<text></text>
Diode	IC gold wire	Connector

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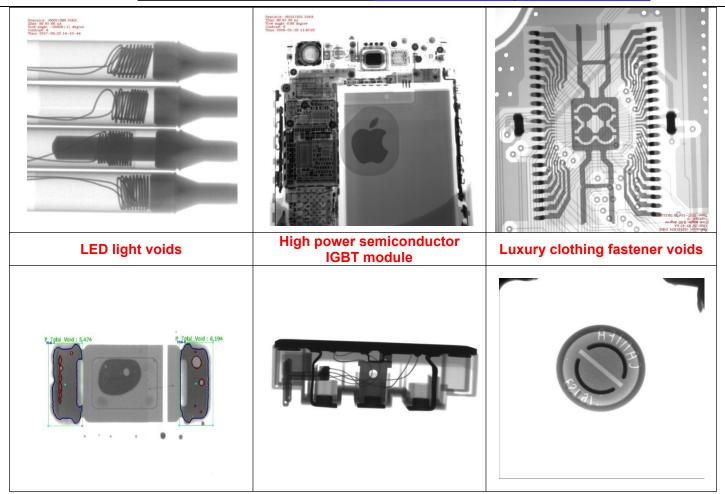


LED light	Thermal sensor	Diode capacitance
Soldering iron	iPhone mainboard	Chip gold wire

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Too many application cases to illustrate.