

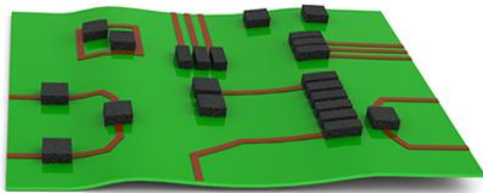
SMT On-line 3D Solder Paste Inspection



Introduction

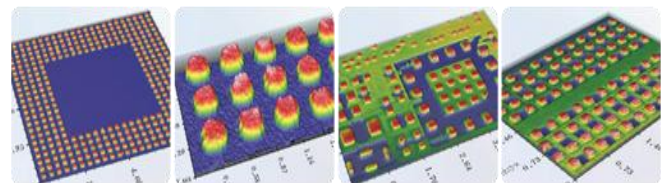
ETA 3D SPI can completely solve the problem of shadow and random reflection in the detection process, so that solder paste 3D detection accuracy is higher; equipped with a 5M pixel high-speed camera, detection speed is faster, the image is more delicate and rich; it is an ideal choice for high-speed and high-precision production lines.

3D Technology
High precision programmable black and white moire fringe
High precision light source control technology, multiple multiple exposures
The highest measuring accuracy 0.67um



3D compensation function
With the thickness strip measurement technology of different cycles,ETA compensate the difference of bending for the board in real time

Real 3D images
Inspection technology is unaffected by varying materials,surface conditions or colors.The system profiles the board to generate accurate 3D shapes far superior to other technology

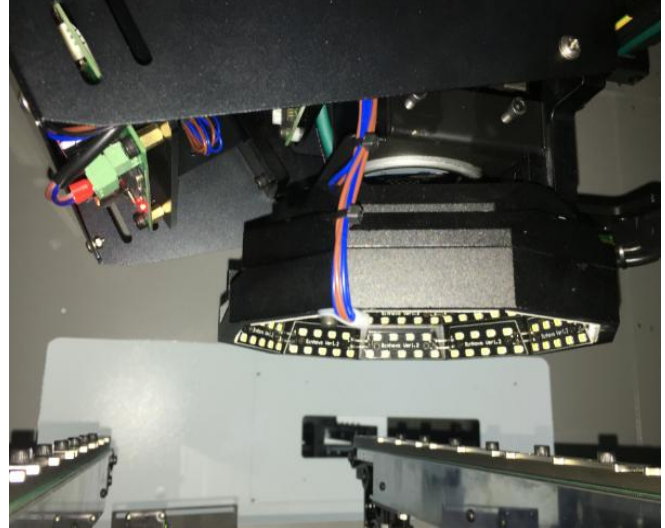
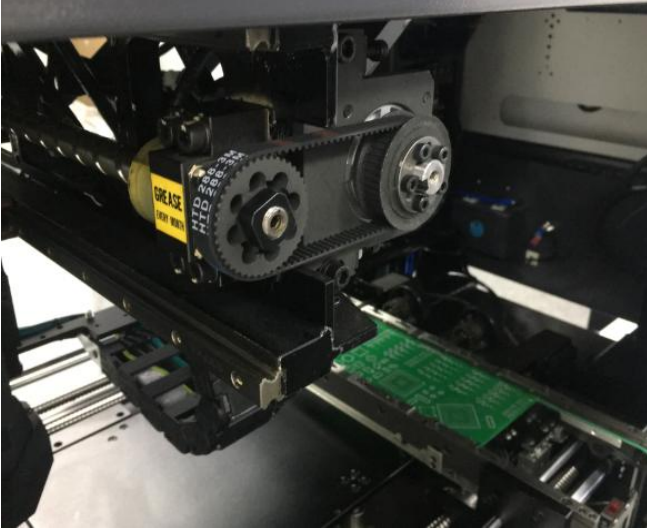


Integral casting
Integral casting is adopted to ensure the accuracy and stability of the machine

Features

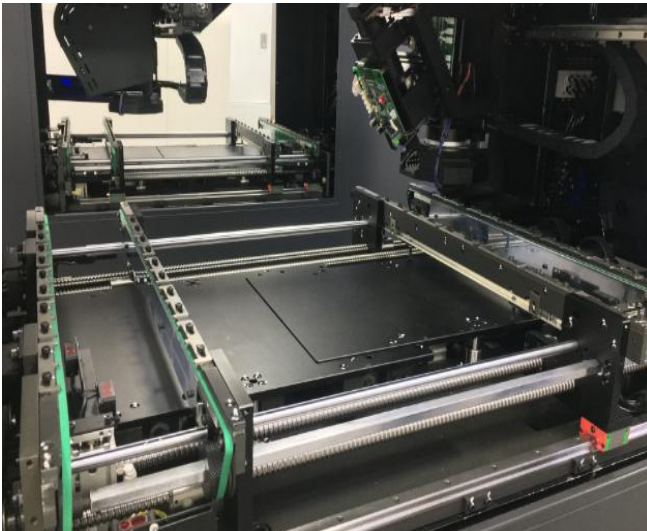
1. The lens of professional lens design makes the image more uniform and delicate, and greatly improves the stability of detection.
- 2.It can be imported into Gerber file programming, or can be used to edit and debug money from image editing mode.

- 3.The multi direction 3D projection method can effectively solve the detection error caused by the shadow effect in the solder paste detection process.
- 4.The operation system improves the result recognition and processing function according to the user level interface structure.
- 5. High precision programmable black and white moire fringe, the highest measuring accuracy 0.67um.
- 6.Based on accurate 3 dimensional measurement data, operators can optimize the whole project in a short time.



The fringe rays are projected and collected, and multiple images are taken at one time for comprehensive calculation.

Strobe, constant light, instant exposure, Multiple exposure, 10 channels High precision light source control.



Compact structure, minimum footprint, monorail dual rail PCB optional.

Integral casting structure, FPC compatible, PCB can be up to 1200 \* 500mm.

**Specification:**

	Model	ETA-S400	ETA-S600	ETA-S1200
PCB Direction	PCB Size	55*55 ~400*300mm	55*55 ~600*500mm	55*55 ~ 1200*500mm
	PCB Thickness	0.5 ~ 5.0mm		
	PCB Weight	≤5.0kg		

	Conveyor Adjustment	Manual/automatic			
	Conveyor Height	900±20mm			
	PCB Direction	Left ~ Right(Right ~ Left)			
Measurement System	Measure Type	Height,Area,Volume,Offset,Bridge,Shape			
	Paste Height	0 ~ 500um			
	Min Measure Size	180 ~ 180um			
	Min Pad Pitch	≥100um			
	Measure Principle	Multi color vector boundary measurement			
	Height Resolution	0.67um(theoretical value)			
	Camera Pixel	530M			
	Camera Lens Number	6			
	FOV Size	28mm/35mm/37mm/41mm			
	Optical Resolution	12um/13.8um/14.5um/16.3um			
	Detection Speed	0.45s/FOV			
	Software System	Language	English/Chinese		
		Program Mode	Off line or on line		
Program Time		5 ~ 10min			
Data Type		Gerber Data 274D/274X, Scan PCB			
SPC & Process Monitoring		Standard SPC			
Drive Mode		Servo Drive			
Machine Direction	Barcode Scanning	Camera scanning (Option:Barcode Gun)			
	Power	AC220,50/60Hz,1KVA			
	Air Pressure	0.35 ~ 0.6Mpa			
	Machine Dimension	630*1620*1470mm	830*1620*1470mm	1700*1150*1500mm	
	Weight	1200kg	1300kg	1600kg	
Option	Barcode gun or software,Bad mark data output,SPC software customization, NG/OK Buffer function,dual display				

**Thanks for choosing ETA.**

**ETA looks forward to win-win cooperation.**

**Thank you.**