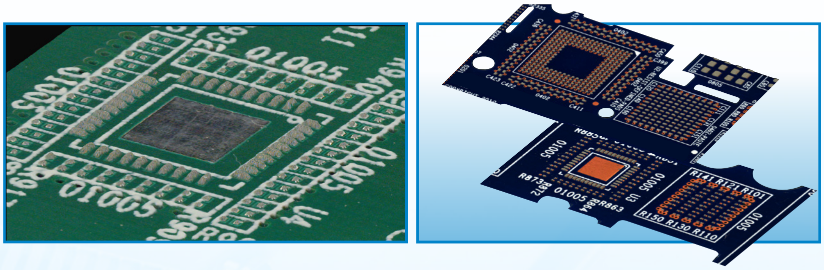

Solder Paste Inspection (SPI)

SPI

SE3000S

Powered by
MRS Technology

3D SPI

A Leap Forward in SPI Speed, Accuracy and Resolution.

The new SE3000S™ 3D SPI system incorporates the industry leading MRS sensor technology with a finer resolution for the best accuracy, repeatability and reproducibility - even on the smallest paste deposits.

Combined with the award winning, easy-to-use SPI software, solder paste inspection has a new level of precision for the most stringent requirements.

www.nordson.com/TestInspect

Nordson
Test & Inspection

SE3000S 3D SPI

Metrology-Grade Accuracy

- At production speed enabled by MRS technology.
- Ideal for measuring height, area, volume, registrationand bridging. Effectively detects insufficient paste, insufficient height, insufficient area, excessive paste, excessive height, smear, offset, shape height, deposit and customer defect types.

Faster, Smarter, Software

- Ultra-fast programming capabilities, auto tuning and enhancements that significantly speed setup, simplify the process, reduce training efforts and minimize operator interaction.
- Take ease-of-use to a whole new level of inspection with multi touch controls and 3D image visualization tools with Nordson Test & Inspection's 3D AOI software that includes full SPI capability.
- Add on Nordson Sight for full-fledged machine-level to factory-level SPC capability.

Richer SPI Experience

- Optimize printing process by proactively analyzing current trend data with the standalone SPI software and Nordson Print Optimizer.
- Enable smarter and faster inspection that provides reduction in rework costs, minimizes scrap and optimizes print process.

System Configuration	SE3000S-DR	SQ3000S-HS
Nordson Part Number	6283906	
Inspection Sensor	Dual Resolution PSX 189	
Inspection Capabilities		
Resolution Mode	9 µm	18 µm
Inspection Speed	16 cm^2/sec	46 cm^2/sec
Minimum Paste Size	100 x100 µm (3.9 x 3.9 mil)	200 x200 µm (7.8 x 7.8 mil)
Maximum Paste Size	15 x 15 mm (0.59 x 0.59 in.)	30 x 30 mm (1.18 x 1.18 in.)
Height Measurement Range	2 mm (0.07 in.)	3 mm (0.12 in.)
Height Accuracy	2 µm on a Certification Target	
Measurement Gage R&R	< 10%	
Measurement Types	Height, Area, Volume, Registration, Bridge Detection	
Defect Category	Bridging, Insufficient Paste, Insufficient Height, Insufficient Area, Excessive Paste, Excessive Height, Smear, Offset, Shape Δ Height, Deposit, and more defect types	
Function Capability	Closed-loop to printer, CyberPrint, inline SPC tool	
Vision System		
Panel Minimum Size	50 x 50 mm (2 x 2 in.)	
Panel Maximum Size	510 x 510 mm (20 x 20 in.)	
Panel Maximum Inspection Area	508 x 503 mm (20 x 19.8 in.)	
Field-of-View (FOV)	22 x 18 mm (0.86 x 0.70 in.)	36 x 36 mm (1.42 x 1.42 in.)
Component Height Clearance	Top: 50 mm (1.97 in.); Bottom: 30 mm (1.97 in.)	
Panel Edge Clearance	Top: 2.5 mm (0.10 in.); Bottom: 3 mm (0.12 in.)	
Panel Thickness	0.3 to 5.0 mm (0.01 in. to 0.2 inc)	
Maximum Weight	3 kg / 5 kg (Option)	
Conveyor Width Adjustment	Automatic	
Conveyor Direction	Left to Right (Standard); Right to Left (Option)	
System Specifications		
Machine Interface	SMEMA, RS232 and Ethernet	
Power Requirements	100-120 VAC or 220-240 VAC, 50/60 hz, 10-15 amps	
Compressed Air Requirements	5.6 Kgf/cm2 to 7.0 Kgf/cm2 (80 to 100 psi @ 4 cfm)	
System Dimensions	110 x 129 x 139 cm (W x D x H)	
Weight	900 kg (2127 lbs.)	
Options		
	SPC software, Barcode Readers (1D/2D), Programming Software: ePM-SPI/AOI, Offline Defect Review, Certification Target	

For more information, speak with your Nordson representative or contact your Nordson regional office

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