

S3 Flying Probe Test System

For Substrate Boards

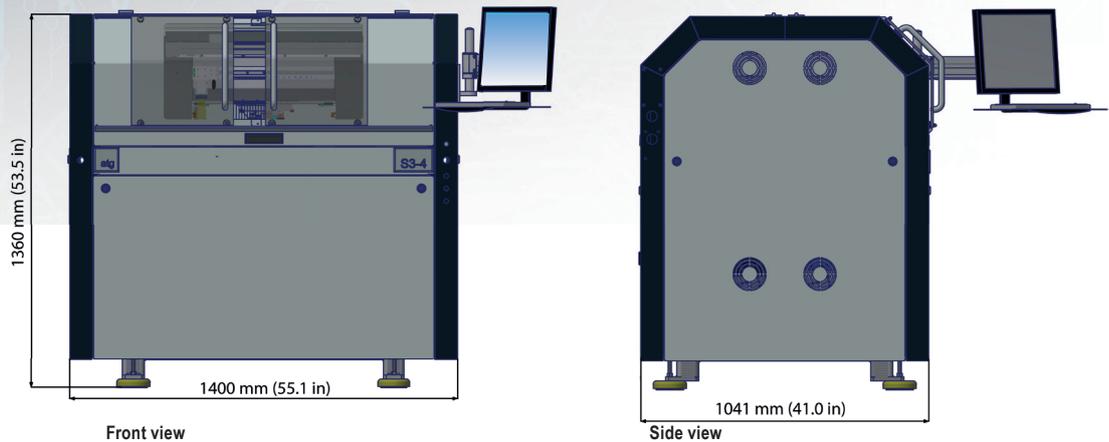


- ▲ 4 Test Heads
- ▲ Single Sided Test with Vacuum Table
- ▲ High Speed Direct Linear Drives for X and Z motion
- ▲ No Probe Marks
- ▲ Optical auto focus Microscope Lenses
- ▲ Fast 280 mA Kelvin Testing



S3 Technical Specifications

Flying Probe Test System



Mechanics

Single sided test system, 4 probes on top side
 Vacuum table for loading of Flex and Substrate boards
 Max. board size (X × Y) 330 mm x 310 mm / 13.0" x 12.2"
 Test area (X × Y) 300 mm x 310 mm / 11.8" x 12.2"
 Board thickness 0.05 mm to 3 mm

Smallest pad 10 μm / 0.4 mil* (Special setup)
 Smallest pitch 25 μm / 1.0 mil
 Resolution measurement system ± 0.1 μm / ± 0.004 mil
 Repeatable accuracy ± 1.5 μm / ± 0.06 mil

*Micro needle probes 0.3 g to 2.5 g
 Soft landing

Electronics

Continuity test 1 Ω to 10 kΩ
 Isolation test up to 25 MΩ (FM),
 up to 100 GΩ (ohmic)
 MicroShort Detection®
 Test voltage 100 mV to 1000 V

Camera System

1 high resolution color camera for optical scanning of top side.
 Resolution 1.2 μm / pixel

Options

- 4-wire measurement with max. 280 mA test current
 0 Ω to 1 kΩ ± 2 %, min ± 25 μΩ
 with FP Kelvin probes 0.3 g to 2 g
 Smallest pad 30 μm / 1.2 mil*
 Smallest pitch 80 μm / 3.2 mil*
 * special setup

- Embedded components test
 R 0 Ω to 1 MΩ ± 1 %, min. ± 0.5 Ω
 1 MΩ to 200 MΩ ± 3 %
 C 0 F to 100 μF ± 2 %, min. ± 30 fF
 L 0 H to 10 mH ± 5 %, min. ± 0.25 μH
 Diode / Varistor

 100 mV to 12.5 V
 Structural test of integrated circuits:
 opens/shorts test on CMOS devices with ESD diodes



Multi-Point Measurements

Up to three AC/DC sources (voltage and current) simultaneously.
 Transistors (MOSFET and Bipolar), Optocouplers, Fuses,
 Relays, Transformers, etc.
 I_{max} = 300 mA

- Repair software with barcode support

Data Input Format	IPC-D-356A
Network Connection	Ethernet, TCP / IP
Power Supply	3 x 400 V, 50 Hz (3 x 208 V, 60 Hz), 500 VA
Power Supply Vacuum Pump	230 V, 50 Hz, 1500 VA
for Vacuum Table	8 bar / 115 psi, filtered, constant air quantity
Compressed Air	18 °C to 24 °C
Temperature	40 % to 60 %
Relative Humidity	900 kg
Machine Weight	

All information subject to change without notice!
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