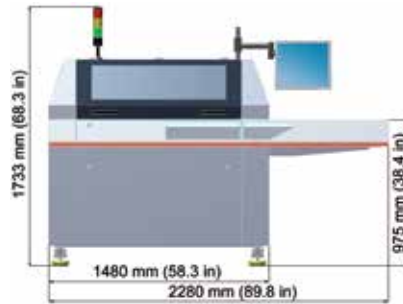


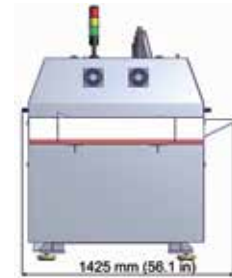
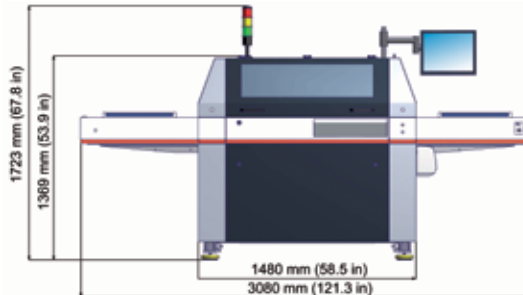
S2-8cf Technical Specifications

Flying Probe Test System

S2-8cf



S2-8cf ds



Mechanics

Basic unit with 8 probes (4 top, 4 bottom)
Single or dual universal shuttle system with clamp and stretch mode for testing flexible and rigid boards

Max. board size (X x Y)	610 mm x 330 mm / 24.0" x 13.0"
Min. board size (X x Y)	10 mm x 10 mm / 0.4" x 0.4"
Test area (X x Y)	610 mm x 310 mm / 24" x 12.2"
Board thickness	up to 5 mm

Smallest pad	10 μm / 0.4 mil* (special setup)
	25 μm / 1.0 mil
Smallest pitch	50 μm / 2.0 mil
Resolution measuring system	$\pm 0.5 \mu\text{m}$ / $\pm 0.02 \text{ mil}$
Repeatable accuracy	$\pm 2 \mu\text{m}$ / $\pm 0.08 \text{ mil}$

Soft touch probes or	5 g to 15 g
*Micro needle probes	0.2 g to 2.5 g

Electronics

Continuity test	1 Ω to 10 k Ω
Isolation test	up to 25 M Ω (FM), up to 10 G Ω (ohmic) MicroShort Detection®
Test voltage	up to 500 V

Camera System

4 color cameras (1024 px x 768 px) for fast optical scanning of top and bottom side

Options

- 4-wire measurement with max. 300 mA test current
 - 0.25 m Ω to 1 k Ω $\pm 2 \%$, min $\pm 0.025 \text{ m}\Omega$
 - with Kelvin probes 0.2 g to 5 g
 - Smallest pad 50 μm / 2.0 mil*
 - Smallest pitch 80 μm / 3.2 mil*

*with Kelvin probe fine adjustment

- Embedded components test
 - R 0.5 Ω to 10 M Ω $\pm 0.5 \%$, min $\pm 0.5 \Omega$
 - > 10 M Ω to 50 M Ω $\pm 2 \%$
 - C 0.1 pF to 100 μF $\pm 2 \%$, min $\pm 0.03 \text{ pF}$
 - L 0.2 μH to 5 mH $\pm 3 \%$, min $\pm 0.1 \mu\text{H}$
 - Diode / Varistor
 - U_R reverse voltage and
 - U_{BR} breakdown voltage up to 10 V

- LaTest® open detection
 - with LaTest® probes 1 g to 10 g
 - High current 1.4 A (1 kHz)

- Pneumatic clamping with supporting table for flexible boards
- Retest of fault files from external grid test systems on inquiry
- 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), 1200 VA
Compressed air	6 bar / 90 psi, filtered
Temperature	18 °C to 27 °C / 66 °F to 81 °F, $\pm 2 \text{ K}$
Relative humidity	40 % to 60 %
Machine weight	Single shuttle 1450 kg / 4188 lbs Dual shuttle 1530 kg / 3373 lbs

All information subject to change without notice!
March 2013