

S9 Flying Probe Test System

For Rigid and Flexible Boards

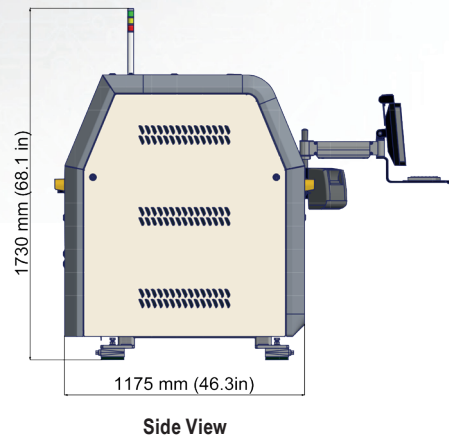
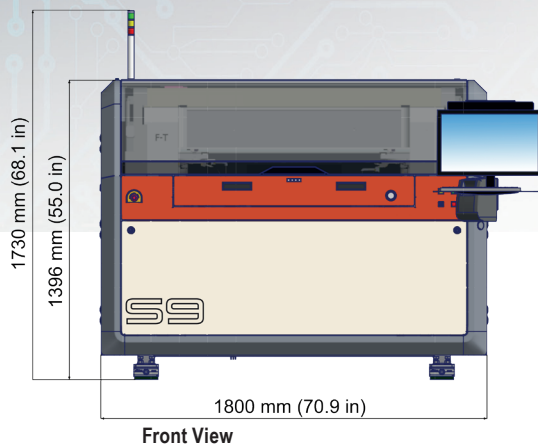


- ▲ Latest Generation in advanced technology
- ▲ 8 ultra light carbon fiber test heads
- ▲ High performance linear motion
- ▲ Granite base for high accuracy and repeatability



S9 Technical Specifications

Flying Probe Test System



Mechanics

Basic unit with 8 probes (4 top, 4 bottom)
Universal shuttle system with clamp and stretch mode for testing substrate boards

Max. board size (X × Y)	540 mm x 535 mm / 21.3" x 21.1"
Min. board size (X × Y)	40 mm x 40 mm / 1.6" x 1.6"
Test area (X × Y)	510 mm x 510 mm / 20.1" x 20.1"
Board thickness	up to 6 mm / 0.2"

Smallest pad	15 µm / 0.6 mil*
Smallest pitch	40 µm / 1.6 mil*
Resolution measurement system	± 0.1 µm / ± 0.004 mil
Repeatable accuracy	± 2.0 µm / ± 0.08 mil

* Micro probes	0.3 g to 2.5 g
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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

4 high resolution cameras for fast optical scanning of top and bottom side.
Resolution 1.5 µm / pixel

Options

- 4-wire measurement with max. 150 mA test current*

Range	250 µΩ to 1 kΩ
with Kelvin probes	0.3 g to 2.5 g
Smallest pad	30 µm / 1.2 mil*
Smallest pitch	80 µm / 3.2 mil*

* Kelvin Fine Pitch Probe

- Embedded components test

R 1 Ω to 1 MΩ	± 1 %, min. ± 0.5 Ω**
1 MΩ to 200 MΩ	± 3 %
C 100 fF to 100 µF	± 2 %, min. ± 30 fF**
L 500 nH to 10 mH	± 5 %, min. ± 0.25 µH**
Diode / Varistor	
U _F , U _R , U _{BR}	0 V to 12.5 V

** Measurement Card

Data input format	IPC-D-356A
Network connection	Ethernet, TCP / IP
Power supply	230 V, 50 Hz (115 V, 60 Hz), 1000 VA
Compressed air	8 bar / 115 psi, filtered
Temperature	18 °C to 24 °C
Relative humidity	40 % to 60 %
Machine weight	1605 kg

All information subject to change without notice!
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Preliminary technical specification

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