

A9 plus Flying Probe Test System

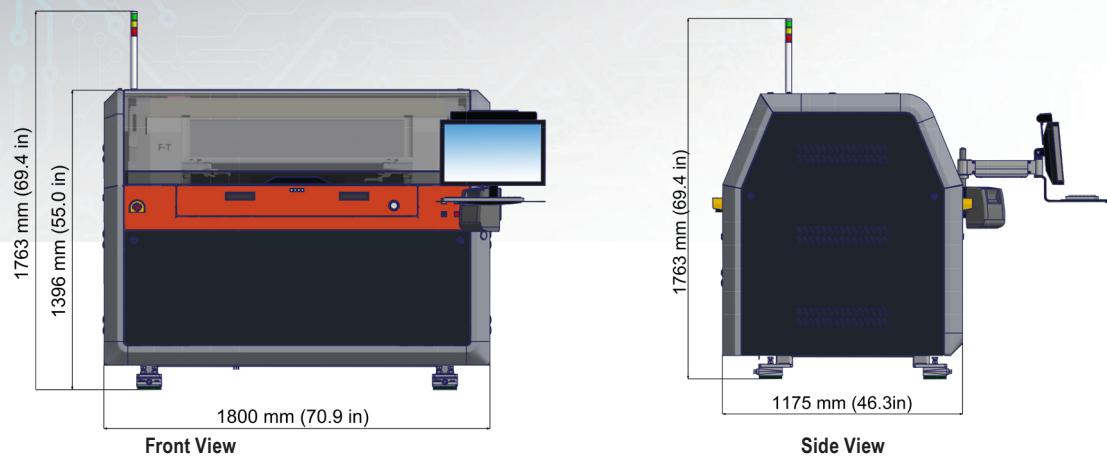
For HDI and Substrate Boards



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

A9 plus 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 HDI
 and substrate boards. Pneumatic clamping function controlled by foot switch.

	high resolution	mixed cameras
Smallest pad	25 µm / 1.0 mil*	35 µm / 1.4 mil (top) 25 µm / 1.0 mil* (bottom)
Smallest pitch	50 µm / 2.0 mil	75 µm / 3.0 mil (top) 50 µm / 2.0 mil* (bottom)
Board thickness	up to 2 mm / 0.08"	up to 4 mm / 0.16"
Resolution measurement system	±0.1 µm / ±0.004 mil	
Repeatable accuracy	±3 µm / ±0.12 mil	
Soft touch probes or *Micro needle probes	5 g to 10 g 0.3 g to 2.5 g	

Options

- 4-wire measurement with max. 280 mA test current
 0Ω to $1 \text{ k}\Omega$ $\pm 2\%$, min. $\pm 25 \mu\Omega$
 with Kelvin probes 0.3 g to 2.5 g
high resolution **mixed cameras**
 Smallest pad 50 µm / 2.0 mil* 80 µm / 3.2 mil (top)
 Smallest pitch 80 µm / 3.2 mil* 50 µm / 2.0 mil* (bottom)
 120 µm / 4.8 mil (top)
 80 µm / 3.2 mil* (bottom)
- * special setup
- Embedded components test
 R 0Ω to $1 \text{ M}\Omega$ $\pm 1\%$, min. $\pm 0.5 \Omega$
 1 MΩ to 200 MΩ $\pm 3\%$
 C 0 F to $100 \mu\text{F}$ $\pm 2\%$, min. $\pm 30 \text{ fF}$
 L 0 H to 10 mH $\pm 5\%$, min. $\pm 0.25 \mu\text{H}$
 Diode / Varistor
 U_F, U_R, U_{BR} 0 V to 12.5 V
- BackDrill Stripe detection
- Retest of fault files from external grid test systems on inquiry
- Repair software with barcode support

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

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), 1500 VA
Compressed air	8 bar / 115 psi, filtered
Temperature	19 °C to 23 °C
Relative humidity	40 % to 60 %
Machine weight	1450 kg

Camera System

4 high resolution color cameras for fast optical scanning of top and bottom side.
 Resolution 3 µm/ pixel
 or
 2 high resolution color cameras of bottom side, Resolution 3 µm/ pixel and
 2 standard color cameras for top side, Resolution 6 µm/ pixel for fast optical
 scanning

All information subject to change without notice!
 July 2025