

# A9L Flying Probe Test System

## For Oversized Products

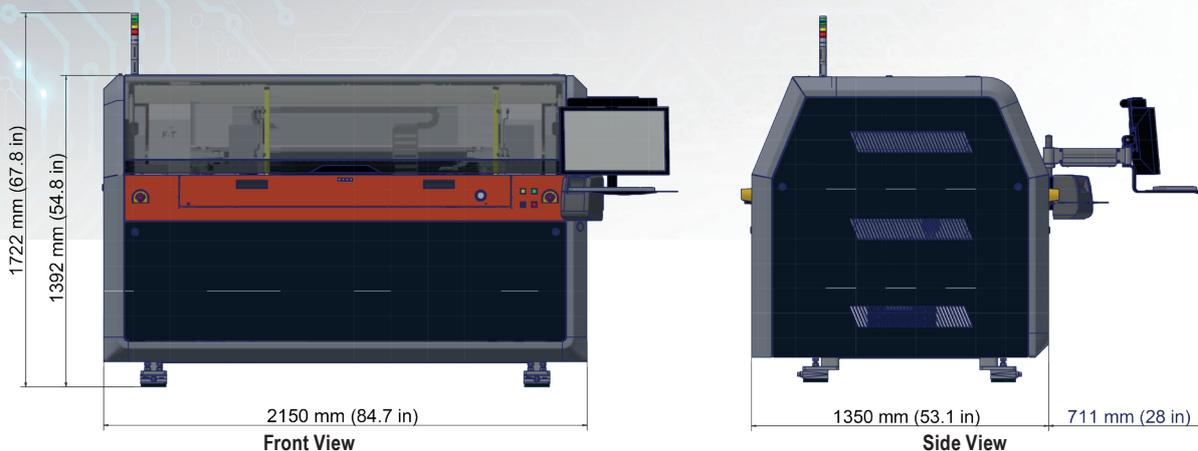


- ▲ Latest Generation in advanced technology
- ▲ 8 ultra light carbon fiber test heads
- ▲ High performance linear motion
- ▲ Granite base for high accuracy and repeatability



# A9L 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 oversized products. Pneumatic clamping function controlled by foot switch.

Max. board size (X × Y)	915 mm x 660 mm / 36.0" x 26.0"
Min. board size (X × Y)	10 mm x 10 mm / 0.4" x 0.4"
Test area (X × Y)	890 mm x 610 mm / 35.0" x 24.0"
Board thickness	up to 10 mm / 0.4"

Smallest pad	50 μm / 2.0 mil
Smallest pitch	100 μm / 4.0 mil
Resolution measurement system	± 0.1 μm / ± 0.004 mil
Repeatable accuracy	± 4 μm / ± 0.16 mil

Soft touch probes or	5 g to 10 g
Micro needle probes	0.3 g to 2.5 g

### 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 color cameras for fast optical scanning of top and bottom side.  
 Resolution 6 μm / pixel

### Options

- 4-wire measurement with max. 280 mA test current
 

0 Ω to 1 kΩ	± 2 %, min. ± 25 μΩ
with Kelvin probes	0.3 g to 2.5 g
Smallest pad	80 μm / 3.2 mil*
Smallest pitch	120 μm / 4.8 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	
U <sub>EP</sub> , U <sub>RP</sub> , U <sub>BR</sub>	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

<b>Data input format</b>	IPC-D-356A
<b>Network connection</b>	Ethernet, TCP / IP
<b>Power supply</b>	230 V, 50 Hz (115 V, 60 Hz), 750 VA
<b>Compressed air</b>	8 bar / 115 psi, filtered
<b>Temperature</b>	18 °C to 27 °C
<b>Relative humidity</b>	40 % to 60 %
<b>Machine weight</b>	1900 kg

All information subject to change without notice!  
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