

# A9XL Flying Probe Test System

For Oversized Rigid Products

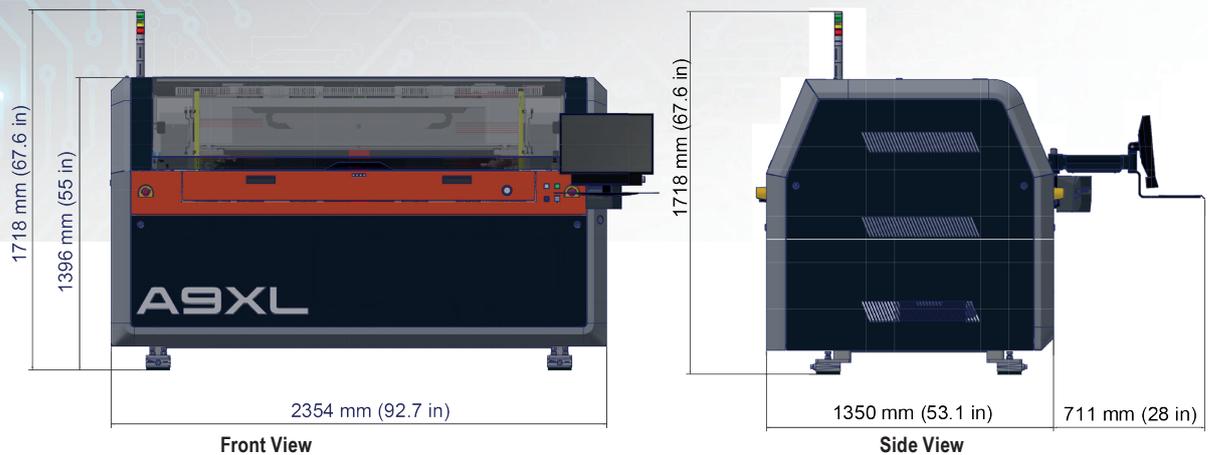


- ▲ Latest Generation in advanced technology
- ▲ 8 ultra light carbon fiber test heads
- ▲ High performance linear motion
- ▲ Granite base for high accuracy and repeatability



# A9XL Technical Specifications

## Flying Probe Test System



### Mechanics

Basic unit with 8 probes (4 top, 4 bottom)  
 Universal shuttle system for testing oversized products

Max. board size (X × Y)	1220 mm x 660 mm / 48.0" x 26.0"
Min. board size (X × Y)	100 mm x 140 mm / 4.0" x 5.5"
Test area (X × Y)	1200 mm x 610 mm / 47.2" x 24.0"
Board thickness	up to 10 mm / 0.4", max 20 kg

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
  - $U_{EP}$ ,  $U_{R1}$ ,  $U_{BR}$  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

<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>	2200 kg

All information subject to change without notice!  
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