

# A9aL Flying Probe Test System

Automated Test for Rigid and Flexible Boards

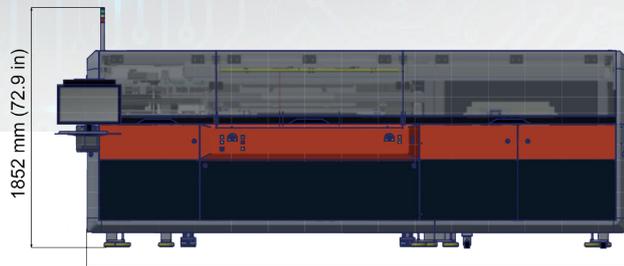


- ▲ Latest Generation in advanced technology
- ▲ 8 ultra light carbon fiber test heads
- ▲ Fully Automatic “Lights-out” operation
- ▲ High performance linear motion
- ▲ Granite base for high accuracy and repeatability



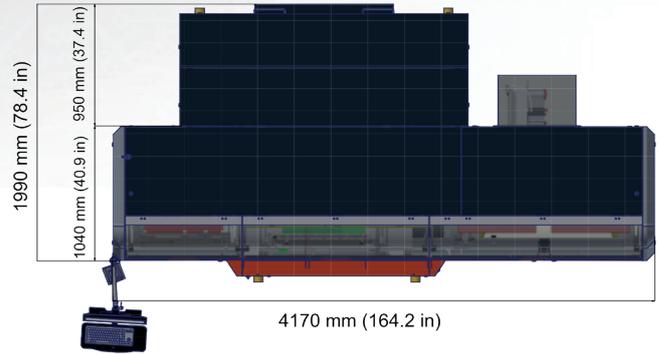
# A9aL Technical Specifications

## Flying Probe Test System



4170 mm (164.2 in)

Front View



4170 mm (164.2 in)

Plan View

### Mechanics

Fully automated test system for medium batch sizes in lights-out operation.  
Basic unit with 8 test probes (4 top, 4 bottom)

### Board Handling

Automation & Manual mode:

Max. board size (X × Y) 610 mm x 535 mm / 24.0" x 21.1"  
Test area (X × Y) 610 mm x 510 mm / 24.0" x 20.0"

Min. board size (X × Y) 60 mm x 80 mm / 2.4" x 3.2"  
Board thickness up to 5 mm, max. 3 kg

Product exchange time < 6 sec using manual layup table (optional),  
Loader capacity 390 mm, max. 80 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 5 g to 10 g  
\*Micro needle probes 0.3 g to 2.5 g

### Electronics

Continuity test 1 Ω to 10 kΩ (2-wire)

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 (on inquiry)  
U<sub>F</sub>, U<sub>R</sub>, U<sub>BR</sub> 0 V to 12.5 V  
Structural test of integrated circuits:  
opens/shorts test on CMOS devices with ESD diodes

- BackDrill Stripe detection
- LaTest® open detection
- Label printer with barcode support
- Pen marker
- Retest of fault files from external grid test systems on inquiry
- Repair software with barcode support
- Tensioning modules for flexible board thickness 0,05 mm to 1.5 mm

<b>Data input format</b>	IPC-D-356A
<b>Network connection</b>	Ethernet, TCP / IP
<b>Power supply</b>	3 x 400 V, 50 Hz (3 x 208 V, 60 Hz), 1500 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>	2700 kg

All information subject to change without notice!  
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