

A6a Flying Probe Test System

Automated test for rigid PCBs



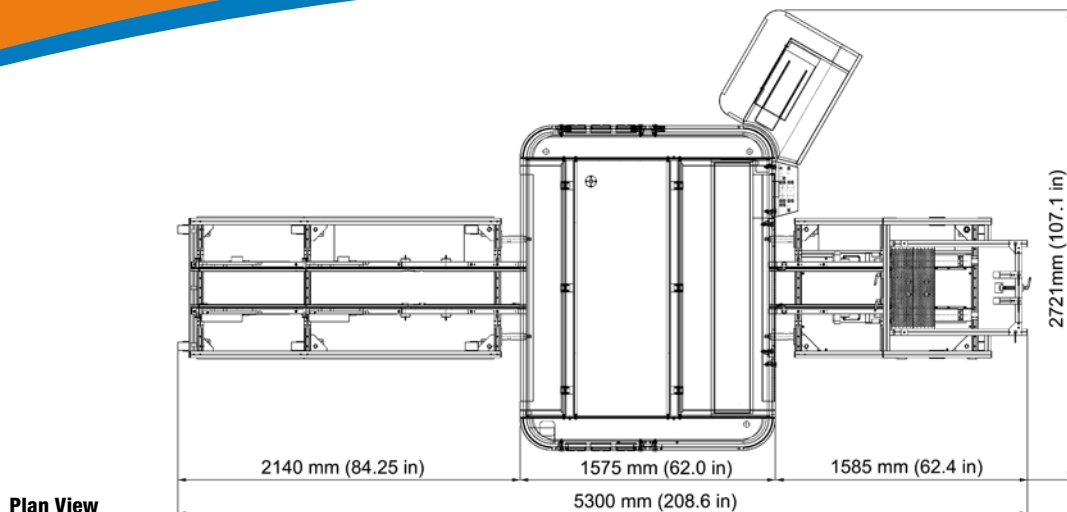
- ▲ 16 Test Heads
- ▲ Fully Automated
- ▲ Soft Touch Probe
- ▲ Kelvin 4-Wire Testing

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Technical Specification

Flying Probe Test System A6a



Mechanics

Fully automated loading, best and stacker system for different board sizes.
Basic unit with 16 probes (8 top, 8 bottom)

Board Handling

	Manual mode	Automatic mode
Max. Board Size (X x Y)	622 x 647 mm	533 x 610 mm
Min. Board Size (X x Y)	62 x 40 mm	60 x 80 mm
Test area (X x Y)	600 x 620 mm	533 x 610 mm
Board Thickness	up to 6 mm	up to 4 mm
Loader capacity	300 mm	
	185 boards / 1.6 mm thickness	

Smallest pad	50 μm / 2.0 mil
Smallest testable pitch	100 μm / 4.0 mil
System accuracy	$\pm 10 \mu\text{m}$ / ± 0.4 mil
Repeatable accuracy	$\pm 5 \mu\text{m}$ / ± 0.2 mil

Rigid probes	10 to 100 g
or	
Soft touch probes	5 to 15 g / no witness marks

Electronics

Continuity test	1 Ω to 10 k Ω
Isolation test	up to 25 M Ω (FM), up to 2 G Ω (ohmic) MicroShort Detection [®]
Test voltage	up to 500 V (ohmic)

Camera System

8 high resolution cameras (1024 x 768 pixel) for rapid optical scanning of top and bottom side
Accuracy from 13 μm / pixel

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Options

- 4-wire measurement:

1 m Ω to 1 k Ω	$\pm 2 \%$, min. ± 0.1 m Ω
with Kelvin probes	0.2 to 5 g
- Embedded components test:

R	0.5 Ω to 10 M Ω	$\pm 0.5 \%$, min. $\pm 0.5 \Omega$
	>10 M Ω to 50 M Ω	$\pm 2 \%$
C	0.1 pF to 1.5 pF	$\pm 2 \%$, min. ± 0.03 pF
L	0.2 μH to 5 mH	$\pm 3 \%$, min. $\pm 0.1 \mu\text{H}$
- Label printer with barcode support
- Retest of fault files from grid test systems with barcode support
- Repair software with barcode support

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), 2500 VA
Compressed Air	6 bar / 90 psi, filtered
Temperatur	18 °C to 27 °C / 66 °F to 81 °F, ± 3 K
Relative Humidity	40% to 60%
Machine Weight	2370 kg (5225 lb)

All information subject to change without notice!
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