

A5 Flying Probe Test System

For rigid PCBs



- ▲ 8 Test Heads
- ▲ Soft touch probe
- ▲ Kelvin 4-Wire Testing

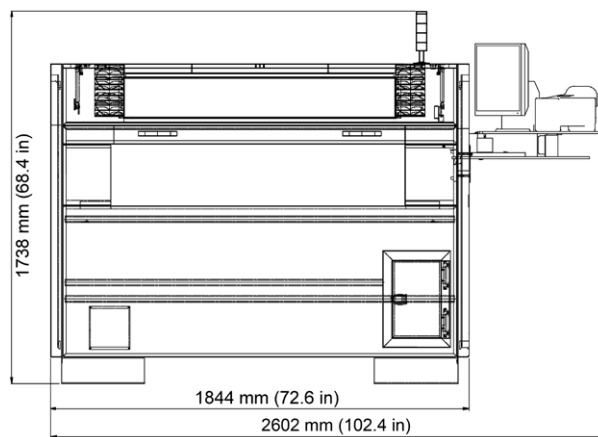
COMBINEDSTRENGTH

atg
test systems

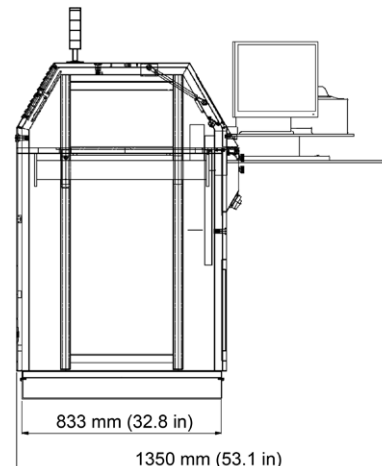
LUTHER & MAELZER

Technical Specification

Flying Probe Test System A5



Front View



Side View

Mechanics

Basic unit with 8 test probes (4 top, 4 bottom)	
Variable board fixing system, multi board test	
Max. board size (X x Y)	650 x 475 mm / 25.6" x 18.7"
Test area	610 x 460 mm / 24.0" x 18.0"
Board thickness	up to 7 mm
Smallest pad	50 μ m / 2.0 mil
Smallest pitch	100 μ m / 4.0 mil
System accuracy	$\pm 20 \mu$ m / ± 0.8 mil
Repeatable accuracy	$\pm 10 \mu$ m / ± 0.4 mil
Rigid probes	10 to 100 g
High speed 48 V motors	

- Vacuum box for single-sided test of inner layers and flexible boards, flip test for double sided boards
- Retest of fault files from grid test systems with barcode support
- Repair software with barcode support
- Glass calibration board

Camera System

4 cameras (640 x 480 pixel) for rapid optical scanning of top and bottom side
Resolution from 5 μ m / pixel

Electronics

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

Data Input Format

IPC-D-356A

Network Connection

Ethernet, TCP / IP

Power Supply

230 V, 50 Hz (115 V, 60 Hz), 1800 VA

Compressed Air

not required

Temperature

18 $^{\circ}$ C to 27 $^{\circ}$ C / 66 $^{\circ}$ F to 81 $^{\circ}$ F, ± 3 K

Relative Humidity

40% to 60%

Machine Weight

1200 kg (2645 lb)

Options

- Soft touch probes: 5 to 15 g / no witness marks
- 4-wire measurement: 1 m Ω to 1 k Ω (± 0.1 m Ω $\pm 2\%$)
Blades, 5 to 15 g
Kelvin, 0.5 to 5 g
- LaTest[®] open detection
with LaTest[®]-blade probes: 1 to 10 g
- Embedded components test:

Measurement	Tolerance
R 1 Ω to 50 M Ω	$\pm (0.5 \Omega \pm 0.5\%) < 10$ M Ω $\pm 2\% > 10$ M Ω
C 0.1 pF to 100 μ F	$\pm (0.03$ pF $\pm 2\%)$
L 0.2 μ H to 5000 μ H	$\pm (0.1$ μ H $\pm 2\%)$

All information subject to change without notice!
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