

A6 Flying Probe Test System

For rigid and flexible PCBs



- ▲ 16 Test Heads
- ▲ Soft touch probe
- ▲ Kelvin 4-Wire Testing
- ▲ Click and Flip Loading for Flex Boards

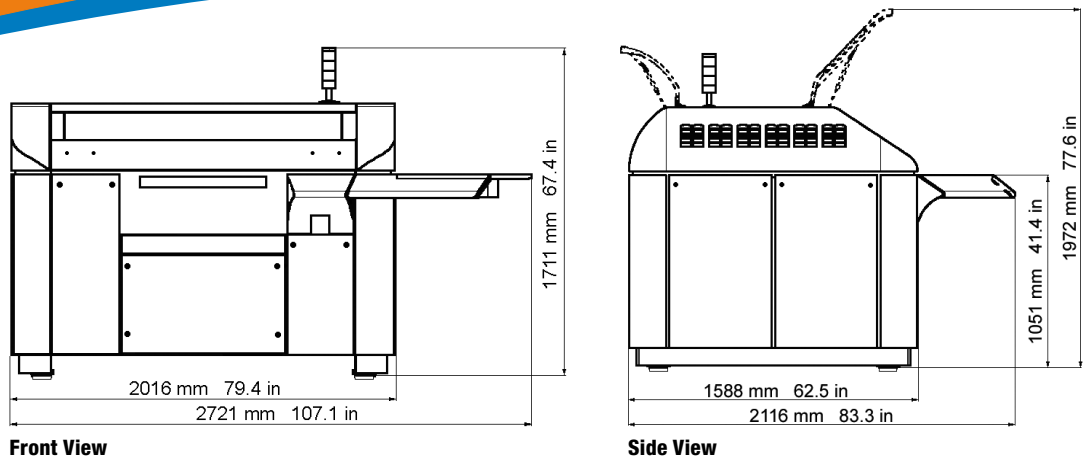
COMBINEDSTRENGTH

atg
test systems

LUTHER & MAELZER

Technical Specification

Flying Probe Test System A6



Mechanics

Basic unit with 16 test probes (8 top, 8 bottom)
 Variable swiveling board fixing system with clamp and tension mode
 for flexible and rigid boards

Max. board size (X x Y)	630 x 650 mm / 24.8" x 25.6"
Test area (X x Y)	600 x 620 mm / 23.6" x 24.4"
Board thickness	0.05 mm (0.002") up to 10 mm (0.4")
Smallest pad	35 µm / 1.4 mil
Smallest pitch	75 µm / 3.0 mil
System accuracy	± 10 µm / ± 0.4 mil
Repeatable accuracy	± 5 µm / ± 0.2 mil

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

Continuity test	1 Ω to 10 kΩ
Isolation test	up to 25 MΩ (FM), up to 2 GΩ (ohmic) MicroShortDetection®
Test voltage	up to 500 V

Options

- 4-wire measurement: 1 mΩ to 1 kΩ (±0.1 mΩ ± 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 MΩ	±(0.5 Ω ± 0.5%) < 10 MΩ ± 2% > 10 MΩ
C 0.1 pF to 100 µF	±(0.03 pF ± 2%)
L 0.2 µH to 5000 µH	±(0.1 µH ± 2%)

- 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

8 high resolution cameras (1024 x 768 pixel) for rapid optical scanning of top and bottom side
 Accuracy from 5 µm / pixel

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

Temperature 18 °C to 27 °C / 66 °F to 81 °F, ± 2 K

Relative Humidity 40% to 60%

Machine Weight 1800 kg (3968 lb)

All information subject to change without notice!
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