

# A5 Flying Probe Test System

For rigid PCBs



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

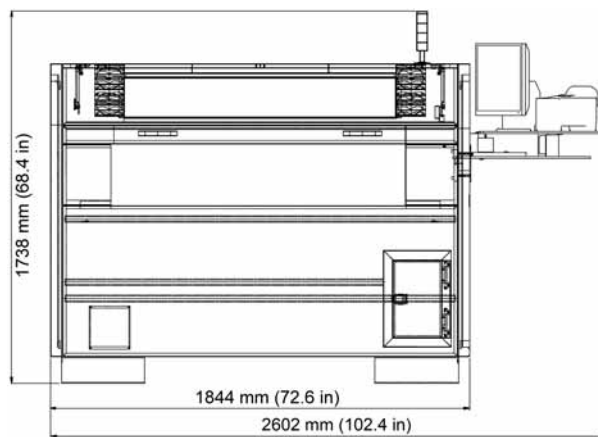
**COMBINEDSTRENGTH**

**atg**  
test systems

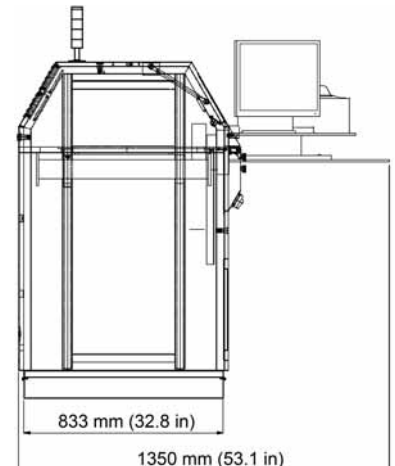
**LUTHER & MAELZER**

# 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 µm / 2.0 mil
Smallest pitch	100 µm / 4.0 mil
System accuracy	± 20 µm / ± 0.8 mil
Repeatable accuracy	± 10 µm / ± 0.4 mil
Rigid probes	10 to 100 g
High speed 48 V motors	

### 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

### 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 ± 2%)  
Blades, 5 to 15 g  
Kelvin, 5 to 15 g
- LaTest® open detection with LaTest®-blade probes: 50 to 100 g
- Embedded components test:
 

Measurement	Tolerance
R 1 Ω to 50 M Ω	± (0.5 Ω ± 0.5%) < 10 M Ω ± 2% > 10 M Ω
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

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

### 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 °C to 27 °C / 66 °F to 81 °F, ± 3 K

### Relative Humidity

40% to 60%

### Machine Weight

1200 kg (2645 lb)

All information subject to change without notice!  
April 2009



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