A9 Flying Probe Test System

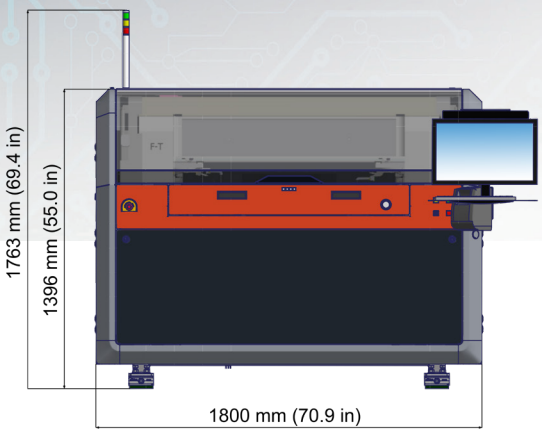
For Rigid and Flexible Boards

- Latest Generation in advanced technology
- 8 ultra light carbon fiber test heads
- High performance linear motion
- Granit base for high accuracy and repeatability

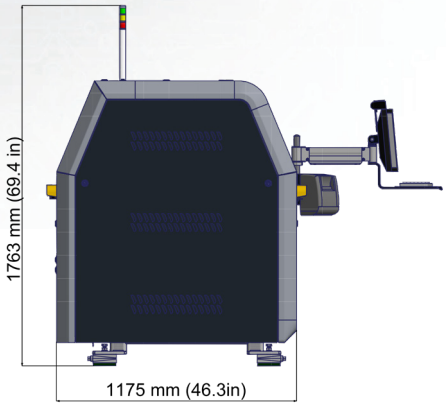
atg®
LUTHER & MAELZER®
MYCRONIC

A9 Technical Specifications

Flying Probe Test System



Front View



Side View

Mechanics

Basic unit with 8 probes (4 top, 4 bottom)
Universal shuttle system with clamp and stretch mode for testing flexible and rigid boards. Pneumatic clamping function controlled by foot switch.

Max. board size (X x Y)	640 mm x 535 mm / 25.2” x 21.0”
Min. board size (X x Y)	10 mm x 10 mm / 0.4” x 0.4”
Test area (X x Y)	610 mm x 510 mm / 24.0” x 20.0”
Board thickness	up to 10 mm / 0.4”
Smallest pad	35 µm / 1.4 mil* (special setup)
Smallest pitch	75 µm / 3.0 mil
Resolution measurement system	±0.1 µm / ±0.004 mil
Repeatable accuracy	±4 µm / ± 0.16 mil
Soft touch probes or	5 g to 10 g
*Micro needle probes	0.3 g to 2.5 g

Electronics

Continuity test	1 Ω to 10 kΩ
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		
	U_F, U_R, U_{BR}	0 V to 12.5 V

- LaTest® open detection

with LaTest® probes	1 g to 10 g
High current	1.4 A (1 kHz)

- Retest of fault files from external grid test systems on inquiry
- Repair software with barcode support

Data input format	IPC-D-356A
Network connection	Ethernet, TCP / IP
Power supply	230 V, 50 Hz (115 V, 60 Hz), 1000 VA
Compressed air	8 bar / 115 psi, filtered
Temperature	18 °C to 27 °C
Relative humidity	40 % to 60 %
Machine weight	1450 kg

All information subject to change without notice!
April 2024

atg Luther & Maelzer GmbH
Zum Schlag 3 · 97877 Wertheim · Germany
Phone +49 9342 291 0 · Fax +49 9342 395 10
www.atg-LM.com

atg LUTHER & MAELZER MYCRONIC