

A7 Pro Flying Probe Test System

For Rigid and Flexible Boards

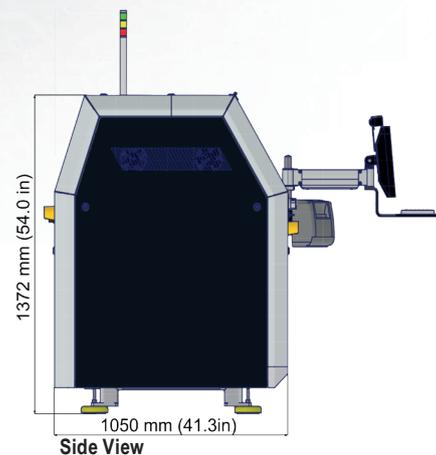
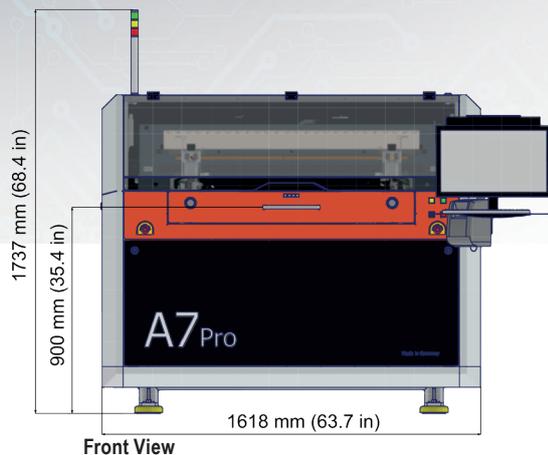


- ▲ 8 Test Heads
- ▲ 20 % higher mechanical speed than A7
- ▲ Light weight Carbon Z-Axis
- ▲ 4 High Resolution Color Cameras
- ▲ Fast 280 mA Kelvin Testing



A7 Pro Technical Specifications

Flying Probe Test System



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 × Y)	640 mm x 610 mm / 25.2" x 24.0"
Min. board size (X × Y)	10 mm x 10 mm / 0.4" x 0.4"
Test area (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	100 µm / 4.0 mil
Resolution measurement system	± 0.1 µm / ± 0.004 mil
Repeatable accuracy	± 4 µm / ± 0.16 mil

Soft touch probes or *Micro needle probes	5 g to 10 g 0.3 g to 2.5 g
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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 _{EP} , U _{RP} , U _{BR}	0 V to 12.5 V
- BackDrill Stripe detection
- 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	800 kg

All information subject to change without notice!
 March 2026