A7-16 XW Flying Probe Test System

For Oversized Rigid and Flexible Boards

- 16 Test Heads (Upgrade to max 24 test heads possible
- High Speed Direct Linear Drives for X and Z motion
- Light weight Carbon Z-Axis
- Test System for oversized panels up to 1003 mm (Optional 1500 mm)

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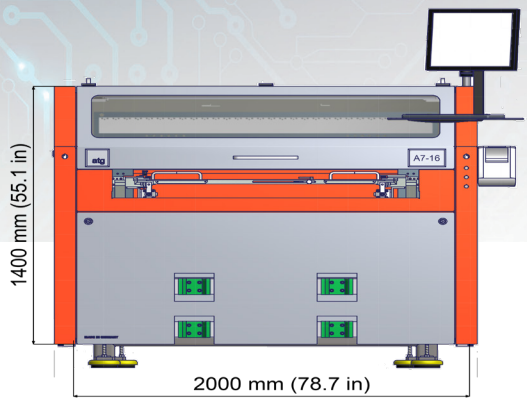
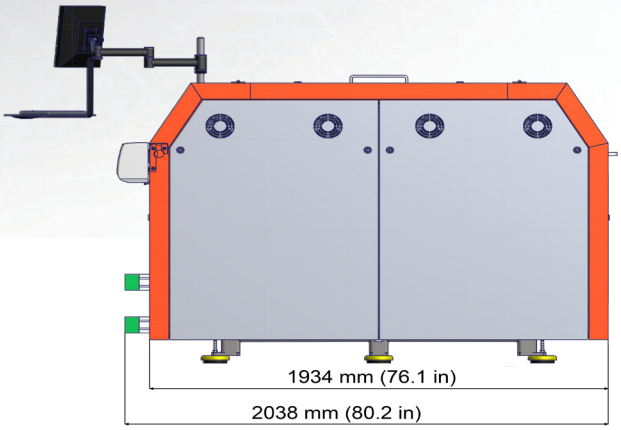
A7-16 XW Technical Specifications

Flying Probe Test System



Front View



Side View

Mechanics

Basic unit with 16 probes (8 top, 8 bottom)
Universal shuttle system with clamp mode for testing rigid boards.

Max. board size (X x Y)	1100 mm x 1220 mm / 43.3" x 48.0" (Optional 1100 mm x 1550 mm / 43.3" x 61.0")
Min. board size (X x Y)	190 mm x 150 mm / 7.5" x 5.9"
Board thickness	up to 12 mm / 0.47"
Test area (X x Y)	1016 mm x 1003 mm / 40.0" x 39.5" (Optional 1016 mm x 1500 mm / 40.0" x 59.1")
Smallest pad	100 µm / 4.0 mil
Smallest pitch	200 µm / 8.0 mil
Resolution measurement system	±0.1 µm / ±0.004 mil
Repeatable accuracy	±7.5 µm / ± 3.0 mil
Soft touch probes	5 g to 10 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

8 color cameras for fast optical scanning of top and bottom side
with high resolution (1024 x 768 px)

Options

- 4-wire measurement with max. 300 mA test current

0 mΩ 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

- 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	3 x 400 V, 50 Hz (3 x 208 V, 60 Hz), 1500 VA
Compressed air	8 bar / 115 psi, filtered
Temperature	18 °C to 27 °C
Relative humidity	40 % to 60 %
Machine weight	2010 kg

All information subject to change without notice!
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