

A5 Neo Flying Probe Test System

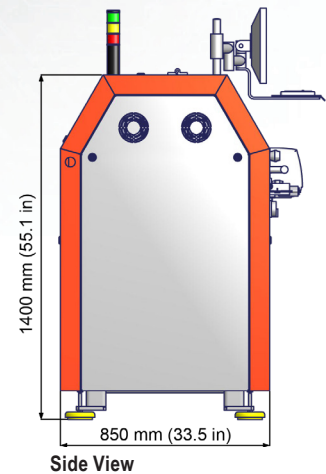
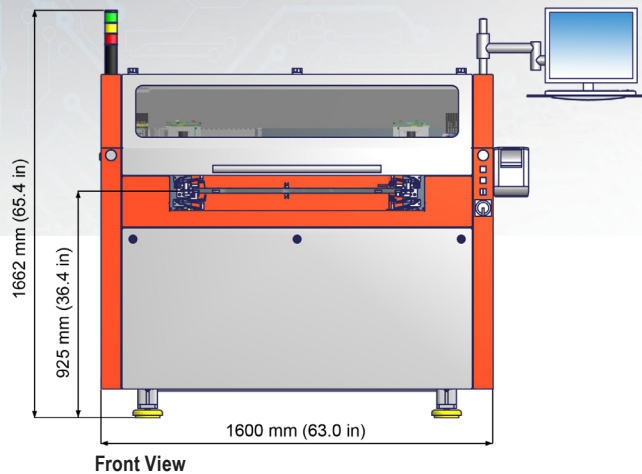
For Rigid and Flexible Boards



- ▲ 8 Test Heads
- ▲ Pneumatic Tension Shuttle for Flex and Inner layer handling
- ▲ Fast 280 mA Kelvin Testing

A5 Neo 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 x Y)	640 mm x 495 mm / 25.2" x 19.5"
Min. board size (X x Y)	10 mm x 10 mm / 0.4" x 0.4"
Test area (X x Y)	610 mm x 460 mm / 24.0" x 18.1"
Board thickness	up to 8 mm / 0.32"

Smallest pad	50 μm / 2.0 mil*
Smallest pitch	100 μm / 4.0 mil*
Resolution measurement system	$\pm 0.1 \mu\text{m}$ / $\pm 0.004 \text{ mil}$
Repeatable accuracy	$\pm 5 \mu\text{m}$ / $\pm 0.2 \text{ mil}$

*Soft touch probes	5 g to 10 g
or Standard probes	20 g to 100 g

Electronics

Continuity test	1 Ω to 10 k Ω
Isolation test	up to 25 M Ω (FM) up to 100 G Ω (ohmic) MicroShort Detection®
Test voltage	100 mV to 1000 V

Camera System

4 cameras for fast optical scanning of top and bottom side.
 Resolution 13 μm /pixel

Options

- 4-wire measurement with max. 280 mA test current

0 Ω to 1 k Ω	$\pm 2 \%$, min $\pm 25 \mu\Omega$
with Kelvin probes	0.3 g to 2.5 g
Smallest pad	100 μm / 4.0 mil*
Smallest pitch	150 μm / 6.0 mil*

 * special setup
- Embedded components test

R 0 Ω to 1 M Ω	$\pm 1 \%$, min. $\pm 0.5 \Omega$
1 M Ω to 200 M Ω	$\pm 3 \%$
C 0 F to 100 μF	$\pm 2 \%$, min. $\pm 30 \text{ fF}$
L 0 H to 10 mH	$\pm 5 \%$, min. $\pm 0.25 \mu\text{H}$
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), 900 VA
Compressed air	8 bar / 115 psi, filtered
Temperature	18 $^{\circ}\text{C}$ to 27 $^{\circ}\text{C}$
Relative humidity	40% to 60%
Machine weight	700 kg

All information subject to change without notice!
 January 2025