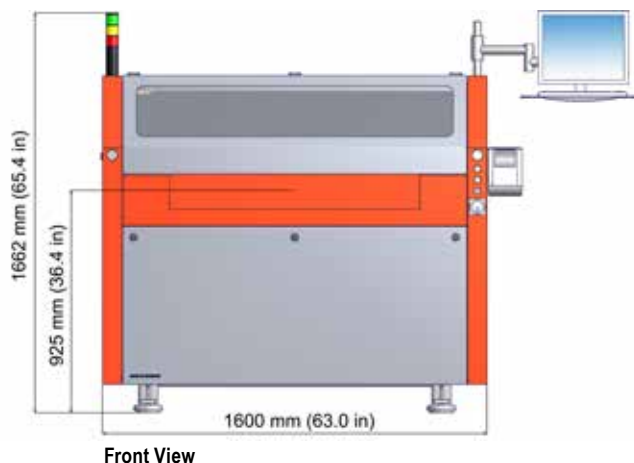


# A7 Technical Specifications

## 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

Max. board size (X x Y)	640 mm x 610 mm / 25.2" x 24.0"
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 $\mu$ m / 1.4 mil* (special setup) 50 $\mu$ m / 2.0 mil
Smallest pitch	100 $\mu$ m / 4.0 mil
Resolution measurement system	$\pm 1 \mu$ m / $\pm 0.04$ mil
Repeatable accuracy	$\pm 4 \mu$ m / $\pm 0.16$ mil

Soft touch probes or *Micro needle probes	5 g to 15 g 0.2 g to 2.5 g
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### Electronics

Continuity test	1 $\Omega$ to 10 k $\Omega$
Isolation test	up to 25 M $\Omega$ (FM) up to 10 G $\Omega$ (ohmic) MicroShort Detection®
Test voltage	up to 500 V

### Camera System

4 color cameras (1024 px x 768 px) for fast optical scanning of top and bottom side

### Options

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

0.25 m $\Omega$ to 1 k $\Omega$	$\pm 2 \%$ , min $\pm 0.025$ m $\Omega$
with Kelvin probes	0.2 g to 5 g
Smallest pad	80 $\mu$ m / 3.1 mil*
Smallest pitch	120 $\mu$ m / 4.7 mil*

 \*with Kelvin probe fine adjustment
- Embedded components test
 

R	0.5 $\Omega$ to 10 M $\Omega$	$\pm 0.5 \%$ , min $\pm 0.5 \Omega$
	> 10 M $\Omega$ to 50 M $\Omega$	$\pm 2 \%$
C	0.1 pF to 100 $\mu$ F	$\pm 2 \%$ , min $\pm 0.03$ pF
L	0.2 $\mu$ H to 5 mH	$\pm 3 \%$ , min $\pm 0.1 \mu$ H

 Diode / Varistor
 

$U_R$	reverse voltage and
$U_{BR}$	breakdown voltage up to 10 V
- LaTest® open detection
 

with LaTest® probes	1 g to 10 g
High current	1.4 A (1 kHz)
- Enhanced test voltage up to 1000 V
- Pneumatic clamping for flexible boards
- Retest of fault files from external grid test systems on inquiry
- Repair software with barcode support

<b>Data input format</b>	IPC-D-356A
<b>Network connection</b>	Ethernet, TCP / IP
<b>Power supply</b>	3 x 400 V, 50 Hz (3 x 208 V, 60 Hz), 1000 VA
<b>Compressed air</b>	6 bar / 90 psi, filtered
<b>Temperature</b>	18 °C to 27 °C / 66 °F to 81 °F, $\pm 3$ K
<b>Relative humidity</b>	40 % to 60 %
<b>Machine weight</b>	900 kg / 1984 lbs

All information subject to change without notice!  
 September 2012