



MECHANICS

Basic unit with 16 probes (8 top, 8 bottom)
 Variable board fixing system, parallel test of several boards
 Smallest pad: 35 μm (1.4 mil)
 Smallest testable pitch: 75 μm (3 mil)
 System accuracy: $\pm 10 \mu\text{m}$ (± 0.4 mil)
 Repeatable accuracy: $\pm 5 \mu\text{m}$ (± 0.2 mil)
 Standard probes: 10 - 100 g
 Soft touch probes: 5 - 15 g (no witness marks)

ELECTRONICS

Continuity test: 1 Ω to 10 k Ω
 Isolation test: up to 25 M Ω (FM), up to 2 G Ω (ohmic)
 Test voltage: up to 500 V

CAMERA SYSTEM

8 high resolution cameras (1024 x 768 pixel) for rapid optical scanning of top and bottom side
 Accuracy from 5 μm /pixel

ADD STACKER

Height 300 mm (11.8 in), stack weight 80 kg (176 lb)

PASS/FAIL STACKER

Height 350 mm (13.8 in), stack weight 80 kg (176 lb)

BOARDS

	Automation	Manual
Size (X x Y) min.	60 x 80 mm (2.4" x 3.2")	62 x 40 mm (2.5" x 1.6")
Size (X x Y) max.	533 mm x 610 mm (21" x 24")	622 mm x 647 mm (24.5" x 25.5")
Max. thickness	4 mm (0.16")	6 mm (0.24")
Smallest pad	up to 35 μm (0.0014")	
Max. weight	1 kg (2.2 lb)	6 kg (13.2 lb)
Geometry	2 parallel sides, front side no recessed edges	2 parallel sides
Max. deflection	1 % of board width	Depends on manipulation
Multipanel and multisample. With Kelvin-probes: test pad free border of 25 mm where product holders are, on every side.		

OPTIONS

- 4-wire measurement: 1 m Ω to 1 k Ω (± 0.1 m Ω ± 2 %)
 - Blades, 5 - 15 g
 - Kelvin blades, 5 - 15 g
- Latent open detection with LaTest[®] blades, 50 - 100 g
- Embedded components:

	Measurement	Tolerance
R	1 Ω to 50 M Ω	$\pm (0.5 \Omega \pm 0.5 \%) < 10 \text{ M}\Omega$ $\pm 2 \% > 10 \text{ M}\Omega$
C	0.1 pF to 100 μF	$\pm (0.03 \text{ pF} \pm 2 \%)$
L	0.2 μH to 5000 μH	$\pm (0.1 \mu\text{H} \pm 2 \%)$

- Ink jet board marker or label board marker
- Retest of fault files from grid test systems, with barcode support
- Repair software with barcode support
- Glass calibration board

DATA INPUT FORMATS

IPC-D-356/A

NETWORK CONNECTION

Ethernet, TCP/IP

ENVIRONMENTAL CONDITIONS

Temperature: 19 $^{\circ}\text{C}$ - 27 $^{\circ}\text{C}$ (66 $^{\circ}\text{F}$ - 81 $^{\circ}\text{F}$), ± 3 K
 Relative humidity: 40% - 60%

COMPRESSED AIR

6 bar (90 psi), filtered

POWER CONSUMPTION

3 x 400 V, 50 Hz (3 x 208 V, 60 Hz), 2500 VA

WEIGHT:

Basic unit 1830 kg (4034 lb)
 Add stacker 280 kg (617 lb)
 Pass/fail stacker 260 kg (573 lb)