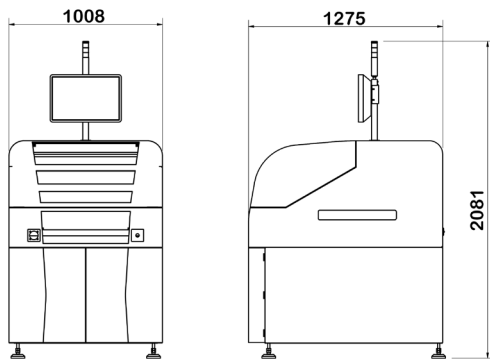## SPECIFICATIONS

Max board size	450mm (x) x 400mm (y)
Min board size	25mm (x) x 50mm (y)
Maximum PCB weight	0.5Kg (1lb)
Underside component clearance	15mm
Underside edge clearance	5mm
Minimum board edge clearance	3mm
Machine alignment repeatability	12.5μm @ 6 sigma 2Cpk
Full process repeatability	20μm @ 6 sigma 2Cpk
Max print area	450mm (x) x 400mm (y)
Max PCB thickness	Up to 5mm (0.2") including 1% warpage
Min PCB thickness	0.4mm
X/Y PCB alignment	± 5mm
Stencil image	Front and centre dedicated
Stencil load/unload	Automatic using print head (standard)
Stencil frame size (max)	584mm (23") x 584mm (23") max frame height 40mm
Stencil frame size (min)	300mm (12") x 300mm (12") max frame height 40mm
Squeegee material	Metal or polyurethane
Squeegee pressure	1–20Kg
Squeegee control	Closed loop proportional valve
Print speed	5–250mm/sec
PCB separation speed	0.1–20mm/sec
Print modes	Print/print, flood/print, print/flood
Transfer height	939.8mm (37") – 965.2mm (38")
Transfer height (Siemens)	830mm
Transport direction	Right–left, left–right, left–left, right–right
Transfer system	Single pair conveyors with round 3mm poly belt drive
Board clamping	Foils
Board stop	Mounted on camera and fully programmable
Throughput time	12 seconds, optional 8 and 6 seconds (excluding print time)
Up/down line protocol	SMEMA (alternative interfaces available)
Conveyor orientation	Front rail dedicated
Conveyor width adjustment	Automatic (standard)
Conveyors	3mm "O" Ring
Internal machine lighting	LED internal machine lighting (standard)
SPI closed loop	Communication with all SPI machines that have a feedback system
Stencil paste roll inspections	Automatic measurement / alert (standard)
PCB support	Manual magnetic pins, **Laser tooling : position indicated by laser dot
Camera field of view	10mm by 10mm
Camera system	Dual roving camera, Look down/look down
Number of fiducials	2
Fiducial size	0.5 – 5mm
User interface	Flat screen LCD monitor with keyboard and integral tracker ball
Operating system	Microsoft Windows™ 7 or higher
Power consumption	13 Amps
Power supply	110V – 240V
Air supply	6 bar clean air supply
Air consumption	1.4 litres per cycle without clean, 16 litres during USC
Operating temperature	10°C to 35°C (50°F to 95°F), humidity 30% to 50% relative humidity (non condensing)
Weight	500Kg
Crated weight	630Kg

* Full movemement of all axes incl. squeegee   ** Optional

OPTIONS

2D paste inspection
2D+ paste inspection with Gerber import tool and bridge detection
Statistical Process Control (SPC)
Vacuum board support
Laser guided tooling

Vacunest™
Quik-Tool™
Red-E-Set™
Custom tooling
Stencil paste dispenser
Temperature Control Unit
Verification

As part of our policy of continuous development, specifications are subject to change without prior notice.