

SPECIFICATIONS

GL-Star Printer @ Smartlink-SMT

GL-Star Printer	
Performance	
Machine Alignment Capability	2 Cmk @ ± 12.5 microns 6 sigma
Process Alignment Capability	2 Cpk @ ± 20 microns 6 sigma
Core Cycle Time	< 8.5 sec
Product Changeover Time	< 3 mins
New Product Set-up Time	< 10 mins
Board Handling	
Max. Size (L x W)	510 mm x 510 mm
Min. Size (L x W)	50 mm x 50 mm
Thickness	0.4-6 mm
PCB Thickness Adjustment	Automatic
PCB Max. Weight	5 kg
PCB Edge Clearance	3 mm
PCB Bottom Clearance	23 mm
PCB Warpage	Max. 1% diagonally
Clamping Method	Auto retractable top clamp, motor controlled side clamp
Support Method	Magnetic support pins, bars, blocks, vacuum suction
Conveyor Direction	L to R, R to L, R to R, L to L (software control)
Conveyor Height	900 \pm 40 mm
Conveyor Speed	1,500 mm/s
Conveyor Width Adjustment	Automatic
Printing Parameters	
Stencil Frame Size (L x W)	Adjustable, 470 mm x 370 mm to 737 mm x 737 mm
Print Gap	0-20 mm
Printing Table Adjustment Range	X: ± 10 mm, Y: ± 10 mm, θ : $\pm 2^\circ$
Print Speed	10-200 mm/s
Squeegee Pressure	0.5-10kg (program control)
Squeegee Type	Std.: Metal Squeegee 280 mm, 350 mm & 520mm. Opt.: Rubber
Squeegee Angle	Std. 60° , Opt. 45° , 50° , 55°
Cleaning System	Auto wet, dry, vacuum (Software select)
Optical System	
Field-of-View (FOV)	10mm x 8mm
Fiducial Types	Circle, triangle, square, diamond, cross
Fiducial Size	0.5-4.0 mm
Vision Methodology	Digital CCD camera look up & down
2D-Inspection	Max.100 windows to inspect missing & insufficient (std.)

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Facilities Requirements	
Power Supply	AC220V \pm 10% 50/60Hz
Power Consumption	3kW
Air Supply	4 ~ 6Kgf/cm ²
Air Consumption	5L/min
Dimension	1,240mm (L) x 1,410mm (W) x 1,500mm (H)
Machine Weight	1,200 kg
Operator Interface	
Hardware	LCD Monitor, Mouse & Keyboard
Operating System (OS)	Windows 10
Control Method	Industrial PC controlled
Options	
Automatic Glue Dispenser from 0.5 mm and up to 3,600 dots/hour	
Optional height sensor and Z-axis adjustment	
Automatic solder paste dispenser for 500g cartridges	
Various barcode scanners & camera systems for Industry 4.0 integration	
Fingerprint scanner for access control	
Airknife – PCB cleaning	
UPS (Uninterrupted Power Supply)	

