SPECIFICATION

G-Tera Printer @ Smartlink-SMT

G-Tera Printer	
Performance	
Machine Alignment Accuracy	±8 µm @ 6 Sigma, Cpk ≥2.0
Process Alignment Accuracy	±12.5 µm @ 6 Sigma, Cmk ≥2.0
Core Cycle Time	5.2 seconds
Actual Cycle Time	12.5 seconds (PCB Size: 200 x 154.5 mm, Squeegee Speed: 150 mm/s)
Product Changeover Time	2 minutes
New Product Setup Time	4 minutes
Board Handling	
Max. Size (L x W)	Single Mode: 510 mm x 510 mm // 3-Stage Mode: 265 mm x 510 mm (Optional: 400 x 510 mm)
Min. Size (L x W)	50 mm x 50 mm
Board Thickness	0.4 mm ~ 6 mm
PCB Thickness Adjustment	Automatic Height Adjustment
Max. PCB Weight	5 kg
PCB Edge Clearance	2.5 mm
PCB Bottom Clearance	20 mm
PCB Warpage	Max. 1% diagonally
Clamping Method	Automatic Edge Clamp
Support Method	Magnetic support pins, bars, dedicated vacuum block
Conveyor Belt	U-Shape Belt
Conveyor Direction	L to R, R to L, R to R, L to L (software controlled)
Conveyor Height	900 ± 30 mm
Max Conveyor Speed	1,500 mm/s
Conveyor Width Adjustment	Automatic
Printing Parameters	
Print Pressure	0.5 – 20 kg
Printing Table Adjustment Range	X: ±3 mm, Y: ±7 mm, θ: ±2°
Print Speed	10 ~ 200 mm/s
Print Mode	Single or Dual squeegee printing
Squeegee Type	Std: OPC Squeegee / Opt: Metal / Rubber / 2 Steps Squeegee
Squeegee Angle	Std: 60°, Opt: 45°
Snap Off Speed	0-20 mm/s
Snap Off Distance	0-20 mm
Stencil Frame Size (L x W)	Adjustable, 470 mm x 370 mm to 737 mm x 737 mm
Stencil Positioning Method	Automatic Y-direction positioning
Cleaning System	2-in-1 paperless self cleaning & secondary wet cleaning with lint-free paper and vacuum (software select)

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Optical System	
CCD Camera	3.0 MP CCD Digital camera look up & down concurrently
Field-of-View (FOV)	10 mm x 8 mm
Fiducial Types	Circle, triangle, square, diamond, cross
Fiducial Size	0.1 mm ~ 6 mm
Facility Requirement	
Power Supply	AC220±10%, 50/60Hz 2.2kW
Power Consumption	2.2 kW
Air Supply	4 ~ 6 Kgf/cm²
Air Consumption	5 L/min
Dimensions (Excluding signal light)	1,258 mm (L) x 1,540 mm (W) x 1,520 mm (H)
Machine Weight	1,250 kg
Operator Interface	
Hardware	LED Monitor, Mouse & Keyboard
Operating System (OS)	Windows 10
Control Method	Industrial PC controlled
I/O Interface	SMEMA Standard
Options	
Automatic Paste Refilling	
AGV-supported Stencil Change	
Autonomous Vehicle (AGV)	
MES System Integration for Industry 4.0	
Automatic Support Pin Placement	
SPI Closed-Loop	
Facial Recognition Authorization	
Hand Scanner for Stencil, Paste, Squeegee (Industry 4.0)	
Stencil Inspection System	
Auto Glue Dispensing (pneumatic / piezoelectric)	
Automatic Support Block (pneumatic)	
Dual Machine Mode	
QR Code Scan Camera	
2-Step Metal Squeegee	
External Temperature Control	
3-Stage Conveyor Expansion	
PCB Srap Remover	

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