

Tucano Automatic Printer

Version 1.08, March 4th, 2011

Configuration

		Tucano-USC	Tucano-USC-V
Machine base	Inline	●	●
PCB Handling	Belt type conveyor system	●	●
	Transport direction programmable	●	●
	Batch operation (same side in/out)	●	●
	SMEMA interface	●	●
	Automatic width adjustment	●	●
	Unique PCB Clamping system	●	●
Control and software	Pentium PC with Windows XP	●	●
	Software Language De/En	●	●
	Remote support software	●	●
Alignment systems	Dual camera	●	●
	Programmable illumination colour	●	●
	2D post print inspection (PCB and Stencil)	○	○
Automatic stencil cleaning	Dry	●	●
	Wet	●	●
	Vacuum	○	●
	Removable 2l Solvent Bottle	●	●
PCB Support	Vacuum Nest, Vario Grid, Grid Lock Control Units	○	○
	Different Tooling pins	○	○
	Vacuum Tooling pins (6pcs)	○	○

● Standard feature ○ Optional feature

Specifications

		Tucano-USC	Tucano-USC-V	
Processing	Alignment	automatic dual camera vision system		
	Vision illumination color	programmable red/green/blue LED		
	Alignment range	+/- 10 mm, +/- 2.5 degrees		
	Cycle time	10s + print time		
	Print speed	Programmable, 1-250 mm/sec (0.039-9.84 inches/sec)		
	Alignment repeatability:	+/- 12,5µm @ 6 Sigma		
	Process Alignment Capability	+/- 25µm @ 6 Sigma		
	Snap Off Speed	Programmable, 0.1 – 20 mm/sec (0.0039-0.79 inches)		
	Printing pressure	Programmable, 0-20 kg (0.1 kg increments)		
	Squeegees	Metal or Polyurethane double squeegee, 150-608 mm width, double squeegee, self-leveling (5.9-23.94 inches)		
	Operation modes	Print, print/print, flood/print, print/flood, 1 or 2 deposits. Others on request		
	Control	Operation system	Microsoft Windows XP	
		Product file storage	Unlimited, file backup system as standard	
PCB dimensions	Board dimensions	40x40 mm – 650x600 mm (1.57x1.57 inches – 25.59x23.62 inches)		
	Max. print area	608x580 mm (23.94x22.83 inches)		
	Board thickness	0.2 – 5 mm (0.0079-0.197 inches)		
	PCB Edge Clearance	2mm		
Stencil frame	Stencil frame clamping	Pneumatic clamping, height 25-40 mm (1-1.57 inches)		
	Stencil adapter	Available for most standard stencils		
	Loading, positioning and ejection	Fully automatic with manual override		



		Tucano-USC	Tucano-USC-V
Transport system	Conveyor extensions	Automatic left for loading, right for unloading	
	Board clamping	Pull down foil clamps	
	Type	3 mm 'O' section polyurethane, single stage belt conveyor,	
	Transport direction	Programmable: Left to Right, R to L, R to R, L to L	
	Transport height	900-970mm (35.43-38.19 inches)	
	Maximum underside clearance	25mm (0.98 inches)	
	Substrate max. Weight	2kg (5kg optional)	
	SMEMA	SMEMA Standard other protocols available	
Machine dimensions	Dimensions (without feet, keyboard and light beacon)	1088x1231x1302mm (42.83x48.46x51.26 inches)	
	Machine weight	500 kg	
Supplies	Electrical	110 -260 VAC 60/50 Hz	
	Power consumption	500 W	
	Compressed air	0.5 MPa / 5 bar, oil-free, filtered 2 µm; air consumption 10l/min (max 90l/min with vacuum option)	

For more information ask for the Tucano System Description

		Tucano-IS1
Tucano-IS1	Region of interest	Approx. 10x10mm (0.39 x 0.39 inches)
	Max. number of sites per region	unlimited
	Max. number of regions	8
	Coverage per second	Max. 200mm ² (7.87 inches square)
	Inspection choices	Paste on pad Stencil Blockage
	Automatic Learn	Single Feature, Rows, Columns, QFP, BGA (0°,90°)
	Programmable Inspection Rate	Inspect all sites every cycle / Selected sites every cycle / Selectable Inspection frequency / Inspect by regions
	Programmable Action on both warnings and alarms	Operator attention dialog box and flashing beacon / Operator intervention or automatic USC Action
	Min pad size	01005 or similar
	Log file generation	.csv format