



Win8 (M size)

TECHNICAL SPECIFICACION

Machine Standard Configuration

Standard Configuration	Specification
	Fully Automatic Vision Printer Model No. Win8
Cycle Time	< 7 sec. (*)
Repeating accuracy	2.0 Cpk @ +/-12.5um High repeatability and reliability Suitable for 0.3mm pitch IC and 0201 pad
Frame	Solid and rigid frame ensures the machine stability and best performance
PCB support	Magnetic plate and magnetic guide pins Locations of the plate and guide pins can be changed very easily
Printing Area	Max. 400mm x 350mm
Stencil Specifications	Max: 736 mm x 736 mm (29" x 29")
Universal Frame Adaptor	The machine comes with a built in universal frame adaptor for different sizes of stencils
Squeegee system	Floating Double stepper motor driven squeegees can compensate variations in PCB thickness
Squeegee Pressure Mechanism	Software controlled, motorized, with closed loop feedback No adjustment is needed on the machine
Control System	PC control system with automated PCB and stencil fiducial search function
Software	Windows XP - GUI interface The operating interface is simple and intuitive Process changeover is fast. All parameters and variables are stored in the program thus the changeover time is minimized Self-diagnosis function, with troubleshooting guide

(*) Printing and stencil cleaning excluded

Process Parameters	Specification
Printing Speed	5 – 200 mm/sec.
Printing Pressure	0 – 18 Kg
Snap off distance	0 – 3 mm
Separation speed	0,1 – 200 mm/sec
Printing Angle	60° (45° is option)
Squeegee Type	Metal Squeegee (standard) Rubber Squeegee(optional)

Transport system	Specification
Conveyor	Belt conveyor Conveyor width is adjusted automatically by the MMI software The conveyor belt can prevent very thin PCBs from going into the conveyor slot
Protocol	SMEMA interface
PCB transport direction	L→R; R→L; L→L; R→R
Table	Unique UVW Table The flexible table can be moved into the print area quickly and reliably Warped PCBs are pulled flat when passing the table
PCB fixing	Side clamping and Z direction clamping vacuum board support. PCB clamping unit can fix the PCBs effectively and improve the positioning accuracy
Maximum PCB weight	5 Kg
Table Adjusting Range	X: ±6 mm, Y: ±6 mm, θ: ± 2°
PCB Size	Min. 50 mm x 50 mm Max. 400 mm x 350 mm
Thickness	0.2 – 6 mm
PCB Warpage	<1%(diagonally)
PCB Support	Flexible pins and magnetic plate
PCB Fixing	Side clamping and vacuum support
Conveyor Height	900 mm ± 20 mm

Win8 (M size)

TECHNICAL SPECIFICACION

Vision	Specification
	High Resolution Vision System
Cameras	2 x CCD camera CCD camera can recognize the fiducial marks and align the PCBs accordingly Resolution of the three adjuster unit: 0.5 micron
Field of Vision	FOV: 10mm x 8mm (768 x 576 pixels)
Pixel size	Approximately 10 microns
Lights	Software controlled programmed LED lighting
Fiducials	Automatic fiducial search feature Fiducial automatic centred Recognize all type of fiducials; Fiducial Mark Size: 0.5 - 3mm ²

Machine Productivity Options

Options	Specification
Under Stencil Cleaning	Powerful power vacuum pump (no ventury) Three stencil cleaning modes are available: dry/wet/vacuum. Cycle and range of pumping the alcohol onto the cleaning paper is closed loop controlled Solvent tank outside machine with level indicator (no stop for refilling) It's possible to replace paper without machine stop (USC in rear side)
2D Solder Paste Inspection	2D Solder Paste Inspection as Standard Stops potential rejects before placement Can find Short Circuits, Deviations, Coverage and other miss-prints
SPC	Integrated real time SPC (Statistical Process Control) Cpk verifies the equipment performance and eliminates defects and prevents them from going to downstream process Printing defect rate is inspected and recorded
Vacuum Board support unit	Vacuum kit can be combined to accommodate different PCB sizes
Flexible support pins	Pins accommodate to different PCB components heights

Utilities	Specification
System Power Requirement	220V±10%, 1 Ph, 50Hz, 2KW
Air Supply	4.5 - 6.0 bars

Dimensions and Weight	Specification
Outside Dimensions	L 1140 mm x W 1500 mm x H 1400 mm
Net Weight	850 Kgs

Certification	Specification
CE	98/37/CE 73/23/EEC
RoHS	Complain
ISO certificate	ISO 9001: 2000
Other certificates	TÜV UL
Acoustic noise levels	Less than 60 db
Patents	Folungwin printers are protected by 31 patented technology

