

A23 SEMI AUTOMATIC PRINTER

INTRODUCING OUR RANGE OF EXCELLENT QUALITY STENCIL PRINTERS FOR FAST, ACCURATE & REPEATABLE SOLDER PASTE PRINTING ONTO THE COMPONENT PADS OF PRINTED CIRCUIT BOARDS



- *Ease of operation*
- *Stencil-to-PCB manual alignment system utilises unique through-stencil view technology with the help of two cameras*
- *All print parameters are programmable*
- *Windows™ 7 operating system*
- *Cleaning system of bottom side of stencil is integrated on retractable print table*
- *Single Phase 230Vac 10A operation*

Features:

Controlling software - access is allowed by three levels:

- *Operator - for selection of program number and start printing process (this access is without password)*
- *Technologist - for editing, programs creating and machine setting (technologist password needed)*
- *Service - for maintenance and calibration of machine (service password needed)*
- *Masking leads part of the camera view range can be electronically excluded from the calculations for alignment. This enables to choose virtually all available pads on the PCB layout for the alignment.*
- *Instruction display helps operator to train quickly the optimal way of alignment stencil with substrate*



Technical data:

PRINTING DATA:

Max. print frame size (W x L x H)	584 x 680 x 25-40 mm
Max. PCB size (W x L)	410 x 410 mm (on request 460 x 410 mm)
Min. PCB size (W x L)	50 x 60 mm
PCB thickness	min. 0,5 mm; max. 7 mm
Max. print format (W x L)	390 x 390 mm, optionally 450 x 390 mm
Printing Modes	Print/Print, Print/Flood, Flood/Print, 1 or 2 deposits. Others available on request.
Stencil Location	Manual, Pneumatically clamped.
Max. print height (max. underside clearance)	63,5 mm (on request 66 mm)
Typical printing accuracy	+/- 20 micron 3 Sigma
PCB Registration	Positioning pins: 3 mm dia., edge pin height 1 mm - as standard
Tooling support	10 x 19 mm diameter - magnetic, 4 x 19 mm diameter - vacuum
Squeegee types	Metal or Polyurethane std. 60°
Squeegee lengths	130, 180, 220, 260, 300, 400, 430 (on request 450) mm
Typical cycle time	15 - 30 s, with single print stroke

PROGRAMMABLE PARAMETERS:

Number of programs	unlimited
Print pressure range	4 – 140 N
Print squeegee pressure setting	30 – 99 % with step of 1 %
Print speed range	10 – 99 mm/sec with step of 1 mm/s
Separation speed control	0,1-3,5 mm/sec
Print gap size	2,5 – 9 mm
Print sequence programming	1 or 2 strokes, with/without vacuum PCB clamping

INSTALLATION DATA:

Dimensions	860 (+ 448 notebook) x 846 x 1416 mm
Gross Weight	220 kg
Mains Power	230 V/50 Hz, circuit breaker B10A or B16A , other on request
Power consumption	150 VA
Internal power supply	24 V DC
Compressed air input	0.6 – 0.80 MPa (oil-free air, filtered 2 micron)
Interface Control	Keyboard or mouse

ALIGNMENT CONDITIONS:

Method of scanning / screen evaluation	view through stencil / colored
Alignment solder pad (mark) shape	square or rectangle with max. rate 2:1
Min. distance between marks	50 mm; 25 % max. PCB dimension
Min. dimension of mark	0.5 x 0.8 mm
Max. correction of stencil and PCB position	30 % stencil aperture dimension
Min. contrast of mark and substrate	2:1 (mark has to be lighter)
Min. free area in surroundings of mark	50 % dimension of mark
Range of table movement X, Y, (theta):	+/- 6 mm (+/- 3°)

CAMERA SYSTEM:

Cameras number / type	2 / colour
Screen magnification	27 times
Displayed screen resolution	640 x 480 pixels
Output	USB
Lighting	2 fluorescent lamps



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