

AUREL C1010D SCREEN PRINTER



The AUREL AUTOMATION Model C1010D is an automatic screen printer for high precision printing of single and multi-layer, for Thick Film Hybrid Circuits, Solar Cells, Wafers, LCD Display, PCB, SMT, etc; on all type of substrate materials and using all known screen-printable pastes.

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HEAD

Intelligent head on precision slides, micrometric screws for centesimal adjustments of printing height and printing pressure. High sensitive squeegee for fine line printing, low pressure, constant angle, no vibrations. DC motor driven head allows accurate movement and precise speed adjustment in both directions.

- Printing speed and printing pressure reading on the touch-screen.
- Special twin strain gauge system for printing pressure and electronic adjustment of squeegee parallelism.

BASE

- Heavy bench for high stability mechanics.
- High precision screen alignment, centesimal reading micrometers for of X Y Z and theta axes.
- Machine cover and full operator's security.

WORKTABLE

Lighted table for an easy substrate alignment. Substrate hold down by vacuum, pump included. Vacuum detector for substrate presence and chamber sensor.

Options

- System for hole metallization
- Substrate automatic centering
- Special pin positioning system for very thin substrates

CONTROL

Flexible electronic control on standard PLC and touch-screen.

Automatic functions and commands:

- Print and flood, alternate print, contact and off-contact print double print.
- Machine parts lifting and locking, setting-up and complete printing parameters control.



SPECIFICATIONS

Max print area	160 x 160 mm
Max substrate size	200 x 200 mm
Max squeegee width	200 mm
Screen size (I.D.)	10"x10" and 10"x8"
X - Y adjustment	25 mm
Z adjustment (Screen height)	12 mm
Theta adjustment (Rotation)	± 5 degrees
Print stroke	50 - 210 mm
Squeegee speed	0 - 300 mm/sec
Squeegee pressure	0 - 12 Kg
Carriage repeatable	± 0,01 mm
Squeegee and screen parallel	± 0,02/100 mm
Cycle rate	Max 1200 PPH
Dimension	1045x855x1320H mm
Weight	350 Kg.
Compressed air	5 Ate - 150 NI/min
Power	240V 4A 50 Hz

