

C920 SCREEN-STENCIL PRINTER



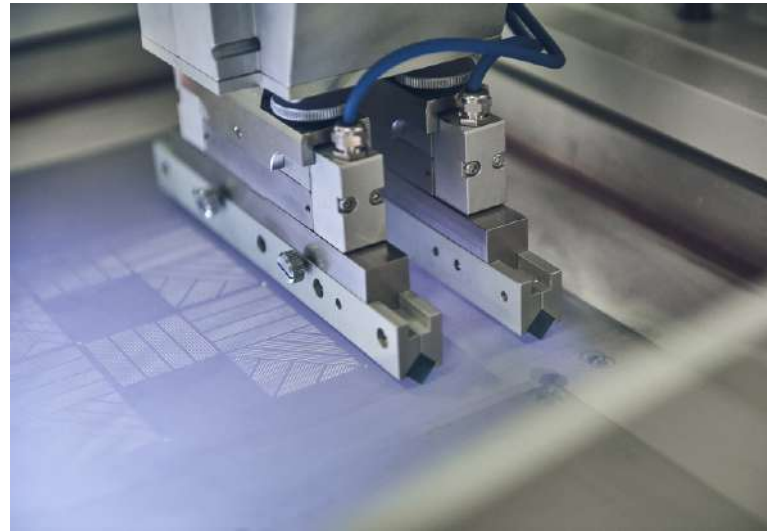
AUREL C920 is a high precision free stand screen/stencil printing machine with cabinet and security cover that can print an area up to 350 x 400 mm, assuring uniform deposition from corner to corner. This machine can be equipped with a ProAlign Vision system for the perfect alignment between the substrate and the screen. C920 is really versatile thanks to the possibility to easily exchange different fixtures according to the substrate size and type (acrylic or aluminium with nest, microporous stone, drilled mutli-holes chuck, etc).

APPLICATIONS

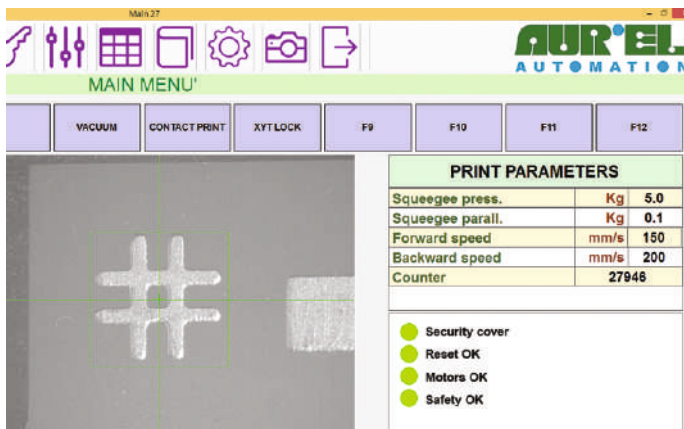
AUREL C920 is a free standing screen-stencil printer with cabinet and security cover that can print area up to 350 x 400 mm, assuring uniform deposition from corner to corner.

Some applications for electronic and general industrial purposes are:

- Thick film pastes
- Solder paste for SMT
- Glue, adhesive, resin
- Polimeric pastes
- Solder resist
- Flexible Foils
- Membrane switch panel
- Solar cell
- LTCC and Via Filling
- Through holes metallization



INDIPENDENT DOUBLE SQUEEGEES HEAD



USER-FRIENDLY INTERFACE
WITH TOUCH SCREEN MONITOR

CONTROLS

- The machine is PC controlled and allows a great deal of flexibility on all functions
- Windows © Operating System
- Wide touch screen monitor with user friendly interface
- Print and flood, alternating print and after print delay
- Programmable printing speed and printing stroke
- Machine diagnostic
- Work recipes storing and data logging
- Machine hood & parts lifting and locking safety switches



POROUS TABLE FOR FLEXIBLE SUBSTRATES & GREEN TAPE



VISIBLE LIGHT AND IR LIGHT

OPTIONAL VISION SYSTEM

- Pro Align Vision system
- Two TV cameras (resolution 640 x 430 pixels)
- Graphic overlapping of the memorized fiducials on the "life" image
- Accurate alignment by manual micrometers
- Programmable tolerance to achieve very high precision (for fine line and fine pitch)

CHARACTERISTICS

- Double squeegee head
- Digital read of printing pressure adjustable by micrometers
- Automatic shuttle table
- Large printing area (up to 350 x 400 mm)
- Print & Flood, Print & Print, Print + Print
- Contact and off contact
- Printing head dc motor drive
- Programmable adjustment of the printing speed & stroke
- Precision X-Y-Theta work table for accurate substrate alignment
- Substrate hold-down by vacuum
- Vacuum by Venturi ejector
- All movements on precision ball bearing linear slides
- High precision print head with micrometric height and down stop adjustment
- Print gap measurement set

OTHER OPTIONS

- Screen adapters
- Special fixtures and chucks (easily interchangeable)
- Paste reload dispenser
- Pneumatic screen locking
- Chuck for printing on cylindrical parts



WORK-TABLE MANUAL ALIGNMENT
BY MICROMETERS

PRINT PARAMETERS

Max print area	350 x 400 mm
Max substrate size	450 x 450 mm
Max squeegee width	400 mm
Max screen size	540 x 540 mm
X-Y adjustment	± 25 mm
Z adjustment (screen height)	± 10 mm
Theta adjustment (rotation)	± 3°
Print stroke	50 - 400 mm
Squeegee speed	0 - 300 mm/sec
Squeegee pressure	0 ÷ 16 Kg
Max weight on the table	10 Kg
Printing capacity	10 ÷ 15 sec + printing time

MACHINE CAPABILITY

Carriage resolution	± 0.0005 mm
Squeegee and screen parallel	± 0.02 mm / 100 mm
Total system repeatability	± 0.020 mm

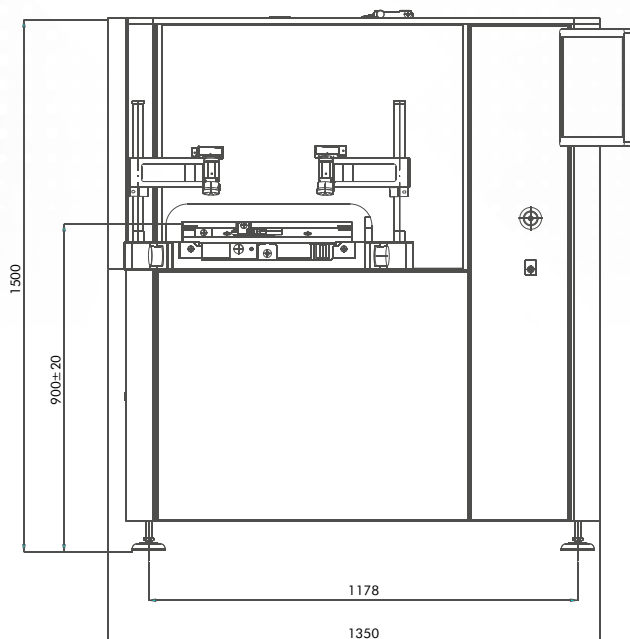
OPTIONAL PRO ALINE VISION SYSTEM

Two digital cameras	
Resolution	640 x 430 pixels
Typical FoV (Field of View)	4 x 3 mm

DIMENSIONS & INSTALLATION REQUIREMENTS

Dimensions	1100W x 1350L x 1500H mm (plus monitor on adjustable arm holder)
Approx. weight	400 Kg
Compressed air supply	5 Ate 25 NI/min MIN
Power supply	230 V - 50Hz - 4A

FRONT VIEW



SIDE VIEW

