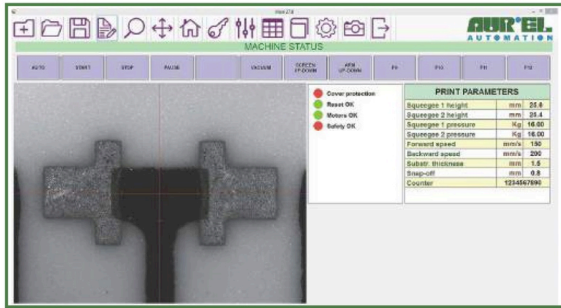


Fine-Line Screen-stencil printer

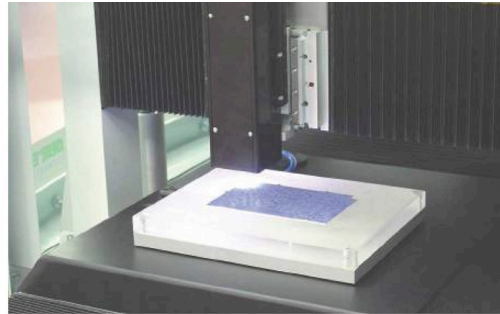
AUREL VS1520 MARK III



The series VS screen-stencil printer uses highly advanced mechanical and electronic solutions to guarantee superior quality in fine-line and fine-pitch printing on ceramic substrates, LTCC, PWB, WAFERS, GLASS, METAL etc... The Automatic Vision System ensures resolutions better than 2 microns. All motions are motorized and programmed by a user-friendly interface.



**USER-FRIENDLY INTERFACE
WITH TOUCH SCREEN MONITOR**



AUTOMATIC VISION SYSTEM

HEAD

the latest state-of-the art head design with motorized and programmable axis for fine teaching and adjustment of parameter.

High sensitive squeegee for fine-line printing, low pressure, constant angle, no vibrations.

DC motor driven head allows smooth movement and precise speed & stroke adjustments in both directions. Configurable head in Single Squeegee, Double Squeegee, Squeegee and Flood Blade.

Motorized and programmable screen Z axis for screen height and for slow snap-off function

XY & Theta TABLE

High precision motor alignment on the X-Y and Theta axis with 1 μ m resolution for perfect alignment between screen and substrate.

Substrate hold down by vacuum. Vacuum detector for substrate presence and chamber sensor

Special fixture and chuck as porous plates for green tape as universal table for PWBs

CONTROLS

The machine is PC controlled with windows OS and friendly GUI.

Cycling mode: Print and flood; alternating print; contact and off-contact print; double print and after print delay.

Programmable printing speed, printing pressure & down stop, screen snap-off.

Machine diagnostic.

Machine hood & parts lifting and locking, setting up, and complete parameters controls & storage

PRS & OPTIC

The camera mount is motorized in order to control 100% of the substrate's surface.

This allows to look at fiducials; vias or pads wherever they are placed on the substrate.

The optic and IR lighting system is integrated in the CCD camera assembly.

The PRS is PC based with advanced software for easy teaching and automatic adjustment of all parameters.

Specifications	HIC	SMT
Max Print Area	250x250mm	400x300mm
Max Substrate Size	350x300mm	450x350mm
Max screen size	12" x12" / 12" x16"	Max type 11" or 14"
Table Axis resolution	± 0.001 mm	± 0.001 mm
Table theta Axis res.	0.001°	0.001°
Vision system resolution	± 0.001 mm	± 0.001 mm
camera axis resolution	± 0.001 mm	± 0.001 mm
Total system repeatability	± 0.012 mm	± 0.012 mm
Squeegee and Screen Parallel	± 0.01 mm/100 mm	± 0.01 mm/100 mm
X-Y Adjustment	± 12.0 mm	± 12.0 mm
Z Adj. (Screen Height)	± 10 mm	± 10 mm
Theta Adj. (Rotation)	± 3°	± 3°
Print Stroke	50-480mm	50-480mm
Squeegee Speed	0-300 mm/sec	0-300 mm/sec
Squeegee Pressure	0.5-16 kg	0.5-16 kg
Dimension	1425W x 1300L x 1520H mm	1425W x 1300L x 1520H mm
Weight	700 kg	700 kg
Compressed air supply	5 ATE – 50 NI/Min	5 ATE – 50 NI/Min
Power supply	100V – 230V 50/60Hz 10A	100V – 230V 50/60Hz 10A