

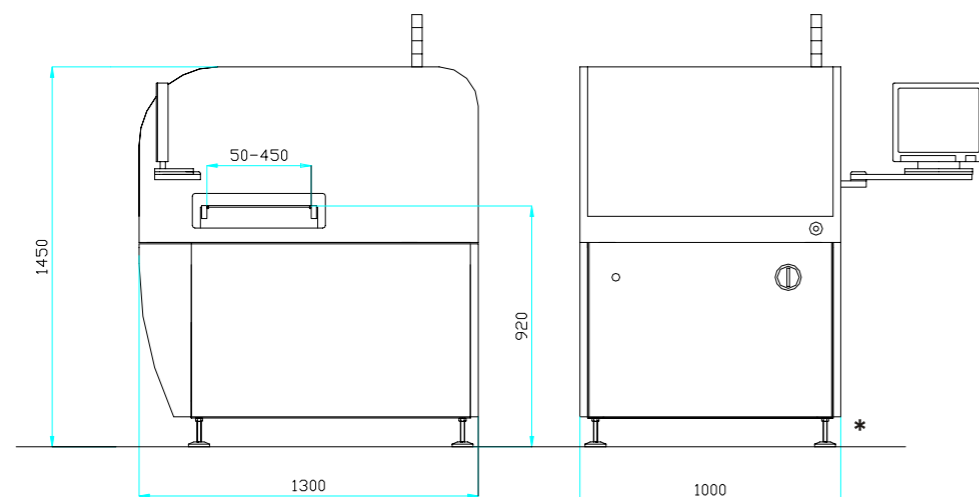
XCEL System AUREL WORK CELL

SPECIFICATIONS XCEL - BASE MACHINE

Substrate dimension	50x50 mm - 450 x 450 mm
Board thickness	0.2 mm - 5 mm
Clearance from board	top 20 mm, bottom 0-50 mm
X-Y axis, Linear motors	max speed 600 mm/sec; repeatability error $\pm 5 \mu\text{m}$
Vision system	for automatic alignment and inspection
OS	Windows 7/8
Power supply	240V 50Hz
Compressed Air	5 atm.
Temperature	15-30°C, 5-80% RH
Dimensions	1000 x 1300 x 1450H mm
Weight	500 Kg (*)

OPTIONAL

Z axis	max speed 50 mm/sec; repeatability error $\pm 5 \mu\text{m}$
θ (theta) axis	max speed 1.5°/sec; repeatability error $\pm 0,0014^\circ$
Bottom vision, Bottom lighting, Special fixtures and in-line transports.	



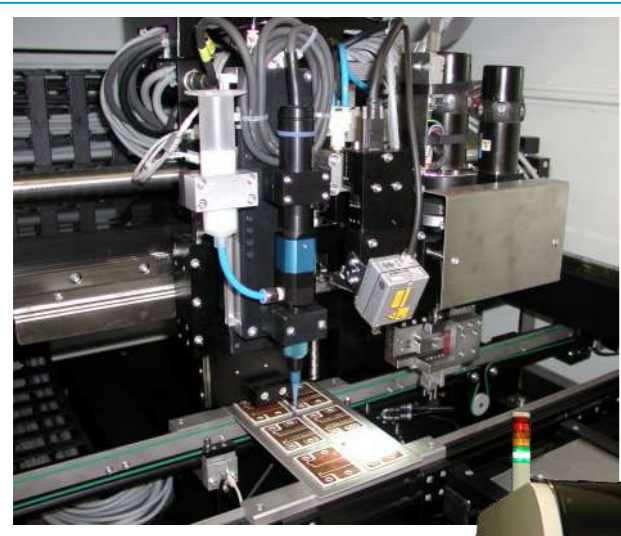
* Weight and dimensions can change for special/custom request.



XCEL is an In-Line or Stand-Alone work cell for Dispensing, Ink Jet, Optical Inspection, Assembly, Soldering, etc...

The applications are in Thick Film, LTCC, polymeric, glass and wafers for display, solar cell, sensors and biosensors, RFID smart card and polyester foils. High precision X-Y axis with $5 \mu\text{m}$ repeatability.





XCEL IN-LINE

Pick & Place for odd-shape;
 Dispenser;
 Optical Inspection AOI;
 Barcode reader;
 Optical alignment;
 In-Line conveyor;
 Feeders;
 Marking;
 UV LED curing.



PV Assembly. DSSC glasses alignment and curing. Top & bottom vision alignment.



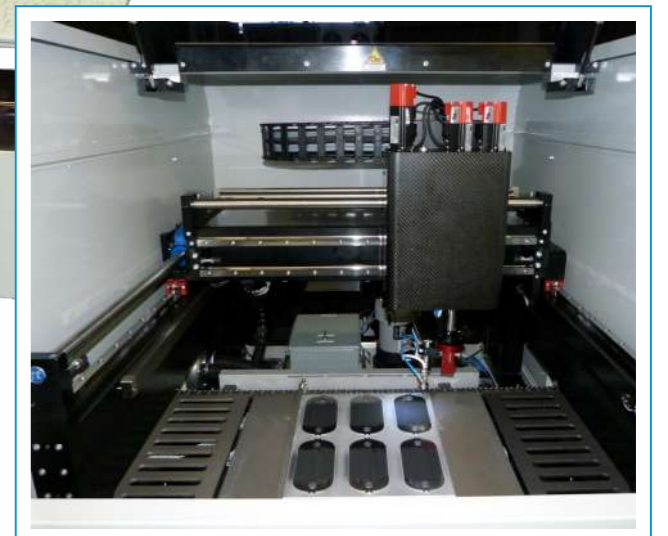
Dispensing by one or more heads using the most suitable system: syringe, volumetric, jetting, etc. Vision auto-alignment. PPI - Post inspection



Laser for micromachining on glass, silicon, ceramics, etc. with YAG diode laser or other type of generators. Automatic vision system.



XCEL WITH I/O CONVEYORS



Spray for coating by inks, resins and other special liquids in electronic, mechanic, fuel-cell.