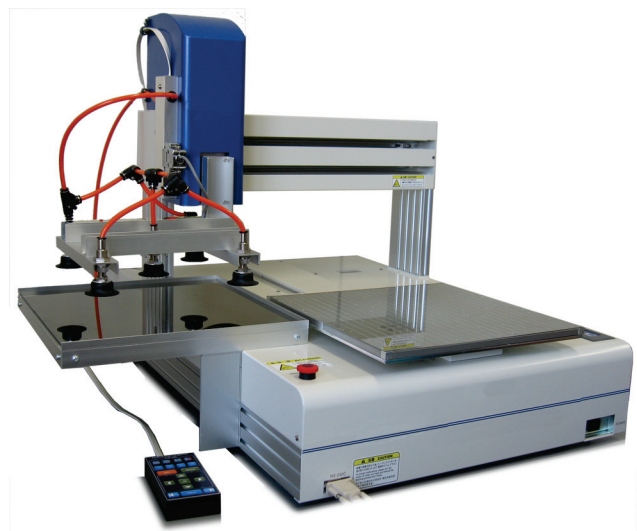


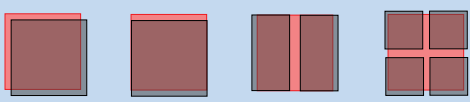
Automatic Electrode Pile-up Machine (KVP-300)

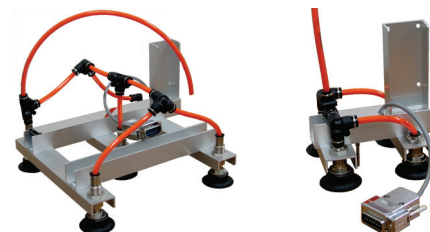


Application: Combine photo and counter electrodes of a dye-sensitized solar cell (DSC). This machine will pick a counter electrode from the left side tray and placed it on exact position on the uv-sealant applied photo electrode.

Features:

- Supported DSC up to 300 × 300 mm in size.
- Automatically detect interchangeable pickup-head mounted on the machine and switch to the correct positioning program.
- Multiple counter electrode can be loaded in to the tray.
- Error indication alarm for empty or overloaded tray.
- Automatically turn on /off vacuum pump as needed.
- Handheld control keypad allow user to full automatic operation or manual operation with fine position adjustments.
- Fully costumizable for any pile-up pattern

Electrode pick-up method	Vacuum pads										
Maximum size of electrode (mm)	300 × 300										
Counter electrode aligning method	Pre-determind position on the photo electrode										
Positioning accuracy (μm)	±5										
Supported photo electrode sizes (mm)	300 sq, 150 sq, 100 sq, 50 sq, 25 sq (custom sizes are possible if requested)										
Supported counter electrode sizes (mm) (Interchangeable pick-up heads are available for different size counter electrodes. Machine will ship with a pre requested size pick-up head. Optional pick-up heads for different size electrodes should be ordered separately. Machine will automatically identify the pick-up head size and switch to appropriate program.)	<table border="0"> <tr> <td>300 × 300,</td> <td>300 × 150</td> </tr> <tr> <td>200 × 200,</td> <td>200 × 100</td> </tr> <tr> <td>150 × 150,</td> <td>150 × 75</td> </tr> <tr> <td>100 × 100,</td> <td>100 × 50</td> </tr> <tr> <td>50 × 50,</td> <td>25 × 25</td> </tr> </table> <p>(custom sizes are possible if requested)</p>	300 × 300,	300 × 150	200 × 200,	200 × 100	150 × 150,	150 × 75	100 × 100,	100 × 50	50 × 50,	25 × 25
300 × 300,	300 × 150										
200 × 200,	200 × 100										
150 × 150,	150 × 75										
100 × 100,	100 × 50										
50 × 50,	25 × 25										
Supported piled-up patterns	 <p>(custom patterns are possible if requested)</p>										
Supported electrode thicknesses (mm)	0.5 – 5										
Control method	Through the control keypad (Programs are stored in the robot's flash memory)										
PC interface (for programming)	USB / RS-232										
Required external items	Single or double stage rotary oil vacuum pump										
Robot's maximum moving range (mm)	400 (X, Y) 55 (Z)										
Power Supply	100-240 V AC, 50/60 Hz										
Dimensions (W × D × H) (mm)	500 × 710 × 568										
Weight	30 kg										



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