

Registering Screen Printing Machine

- Divided into loading section, unloading section, printing section along with a shuttle table that moves from right to left. (Optional for printing table to move from left to right.)
- Screen frame up/ down movement: Driven by servo motor and ball screw with clearance tolerance controlled within 10µm.

Model	Printing Size(mm)
FP-4040SL	400x400
FP-6060SL	600x600
FP-8080SL	800x800
FP-1515SL	950x950



CCD Automatic Registering Screen Printing Machine

- X · Y · θ servo motor automatic positioning platform.
- Unique pressure controlling system on squeegee via patented lifting mechanism to effectively control the printed ink thickness within a certain range.

Model	Printing Size(mm)
TP-450SL	300x450
TP-600SL	400x600
TP-800SL	600x800



Automatic Roll to Roll Screen Printing Machine

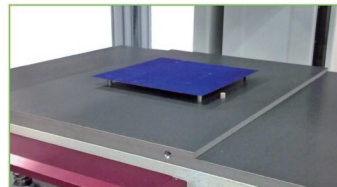
Suitable for a variety of flexible substrates such as PET/ITO, PC, spacer, flexible opto-electronics, flexible display, flexible solar cell, RFID, etc.



Model	Printing Size(mm)
RF-5060	500x600

Semi Automatic Machine

- Fully electric with motor driving for printing.
- Guide pin & lifting pin for easy loading unloading.



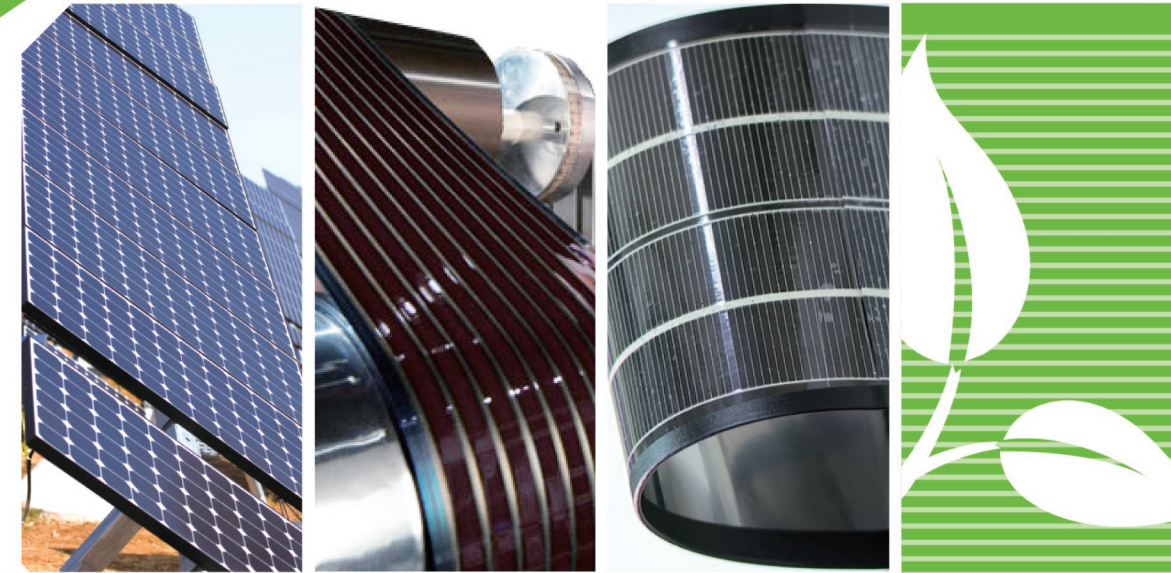
• pin/Lifting pins

Model	TP-250PV	TP-250CCD
Printing Size(mm)	156x156	5"(125x125) · 6"(156x156)
O/D Frame Size(mm)	500x500	360x360 · 500x500
Dimension(mm)	750x780x1600	1500x1030x1800
Weight(kg)	240	500



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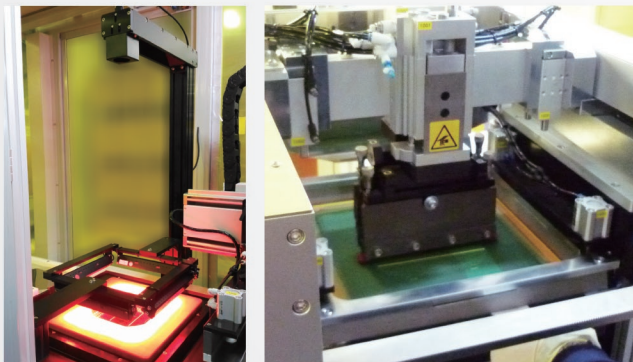
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Automatic Screen Printing Line for Silicon Wafer Solar Cell

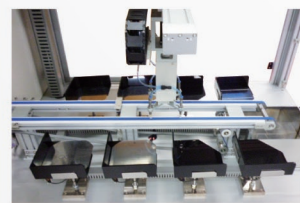
Integrated with Cassette (Magazine) handling, automatic CCD alignment screen printer, IR Thermal oven, Flip off device, buffer system.



Model	PV-600	PV-1200	PV-2400
CCD Alignment Screen Printer	1	3	6
Loader	1	1	2
Buffer	1	2	2
Flip Off	Optional	2	2
Simulator	1	1	2
Sorting	1	1	1
Oven	1	3	3
Breakage	<0.2%	<0.2%	<0.2%
Output	600	1400	2800



• CCD Alignment • ScreenPrinter



• Sorter

Cassette Oven

- Curing wafers at 200, 30 minutes.
- Hot air and infrared heating system.
- VOC treatment and heat recovery.
- Whole cassettes curing in the oven, save space.



Automatic Screen printing production line

Automatic Screen printer for Glass, Titanium plate (0.1mm), Stainless steel (0.1mm), like CIGS cells, DSSC cells, OPV.

Model	Printing Size(mm)
FP-2020SL/A	200x200
FP-4040SL/A	400x400
FP-6060SL/A	600x600

- Work process : Loading → CCD alignment → Screen printing → Curing → Unloading.
- 4 high resolution CCD cameras for substrate detection, combined with external coaxial blue light.



Registering Screen Printing Machine

Automatic screen printer for Thin Film PET, PI, FPC, PC...

Work process : Feeding in by suction cups → CCD alignment → Screen printing → Clip unloading → IR/Thermal curing → Unloading.

Model	FP-6060SL/F
Printing Size(mm)	600x600
O/D Frame Size(mm)	1100x1100
Output	450



Chemical Bath Deposition Apparatus

Low temperature process, plated material such as sulfide, selenide or oxide. Can be used in Energy device, sensor plating or IR optics device.

- Special mechanic design, can reduce the amount of more than 50% of the process chemicals, and to improve material utilization.
- Uniform thermal field design, plating surface up, no chemical container, the substrate directly heated.
- Equipment design is simple, the process time is short, improve the deposition quality.

