Hipri-350 Fully Automatic Screen Printer

Positioning repeatability:±12 μm@6σ
Printing accuracy:±25 μm@6σ

Super high-speed CT
8 sec/cycle (exclude printing and cleaning)

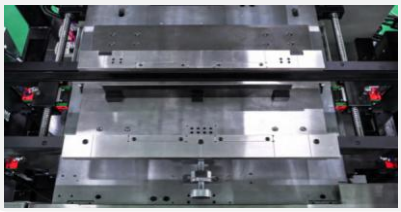
Max PCB processing size
510*350 mm

Max stencil size
820*737 mm

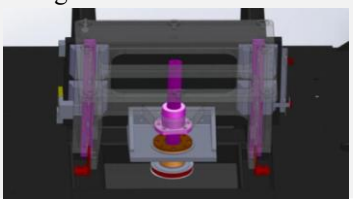
CHARACTER 1 Good quality and stable printing

Integrated frame
High rigidity integrated metalframe ensuring long-term printing equipment stability.

Strong transport system
Double screw rods are electrical adjusting width of rails to allow safe and smooth transportation of boards .

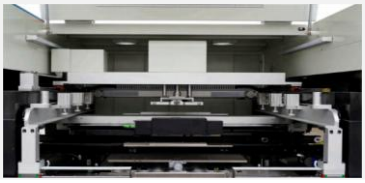


Z-axis direct connection with servo motor
Lifting table directly links with servo and ball screw allowing precise control movement. More than 10 sets of motors are used in the whole machine so as to have good actions.



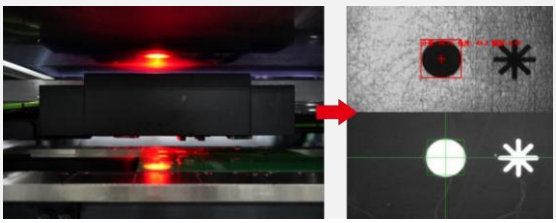
Smart cleaning system
Spraying device is able to adjust filling capacity and cleaning area based on boards' size automatically. Resource-saved, precise adapting and smart automation.

Durable design
Ergonomic open design enables sufficient operating space, which is conducive to rapid line change and solder paste replacement; when the door is opened, sensors can give signals to machine to slow down for potential operation as well as reduce human injury.



CHARACTER 2 Intelligent vision solution

2 in 1 imaging
By combining images of PCB and stencil with auto light sources, the operation of relative positioning can be performed easily and accurately.



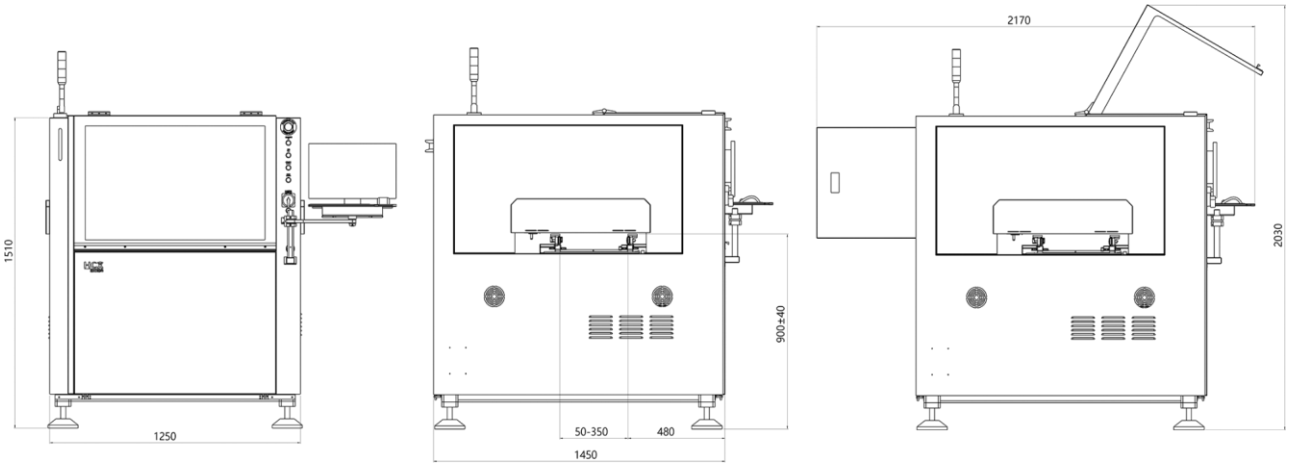
2D inspection
Real-time monitoring, numerous data analysis and great traceability. It provides effective mesh detection and show feedback on the screen so as to advise people to choose the cleaning method.

CHARACTER 3 Cost-efficient choice

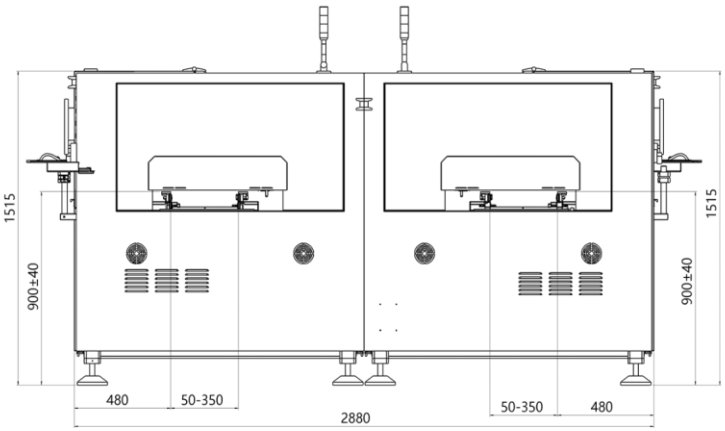
Hipri- achieved high productivity by totally optimizing the operation logic to attain a remarkable cycle time excluding printing and cleaning of 8 seconds in our price class. HP series is one of our best-selling products and has already supported stable production for a long time.

PERFORMANCE	Hipri-350
Positioning repeatability	± 12 microns@6
Printing accuracy	± 25 microns@6
Core Cycle Time	< 8 sec(exclude printing&cleaning)
Product Changeover Time	< 5 min
New Product Set-up Time	<10 min
BOARD HANDLING	
Board Size Range	50 mm × 50 mm - 500 mm × 350 mm
PCB Thickness	0.6~6 mm (below 0.6 mm fixtures are required)
PCB Max Weight	5 kg
Stencil Frame Size	L 470 mm × W 370 mm - L 820 mm × W 737 mm
Stencil Thickness	20~40 mm
PCB Edge Clearance	3 mm
PCB Bottom Clearance	13 mm
Clamping Method	Programmable Motorized Rear Rail
	Top Clamping
	Side Clamping
	Vacuum Adsorption(option)
Support Method	Magnetic Pin
	Side Support Block
	Flexible Pin(option)
PRINTING PARAMETER	
Squeegee Type	Steel, Rubber or Customerized(angle 60°/55°/45°)
Squeegee Pressure	0~15 kg
Printer Speed	10~200 mm/sec
Snap-off Speed	0.01 ~125 mm/sec (can be programmed to 3 steps control)
Separation option	Separation after squeegee up; Squeegee up after separation
Conveyor Speed	100~1,500 mm/sec
Conveyor Direction	L→R, L→L, R→L, R→R
Table Adjustment Range	X: ±4 mm; Y:±6 mm; 0:±2°
Cleaning System	Dry/Wet/Vacuum
VISION SYSTEM	
Field-of-View(FOV)	6.4×4.8 mm
Fiducial Types	Standard, Pad, Hole
Vision Methodology	1. CCD Camera
	2. Telecentric Concentric Vision System
	3. Four Directions Independent Concentric
	4. Annular LED
FACILITIES REQUIREMENT	
Power Supply	AC:220 V±10%, 50/60 Hz 1 2.5 KW, 13 A
Air Pressure	4-6 kg/cm²
Air Consumption	≈0.007 m³/min
Operation Temperature	-20°C ~ +45°C
Operation Relative Humidity	30-60%
Weight	Approx. 1,200 kg
Dimension	L 1,250 mm × W 1,450 mm× H 1,550 mm
Operation System	Windows 10
Noise	＜87dB
Certification standards	CE

Unit:mm


1510
1250
50-350
480
1450
900±40
2170
2030

BTB


1515
900±40
480
50-350
2880
50-350
480
1515
900±40