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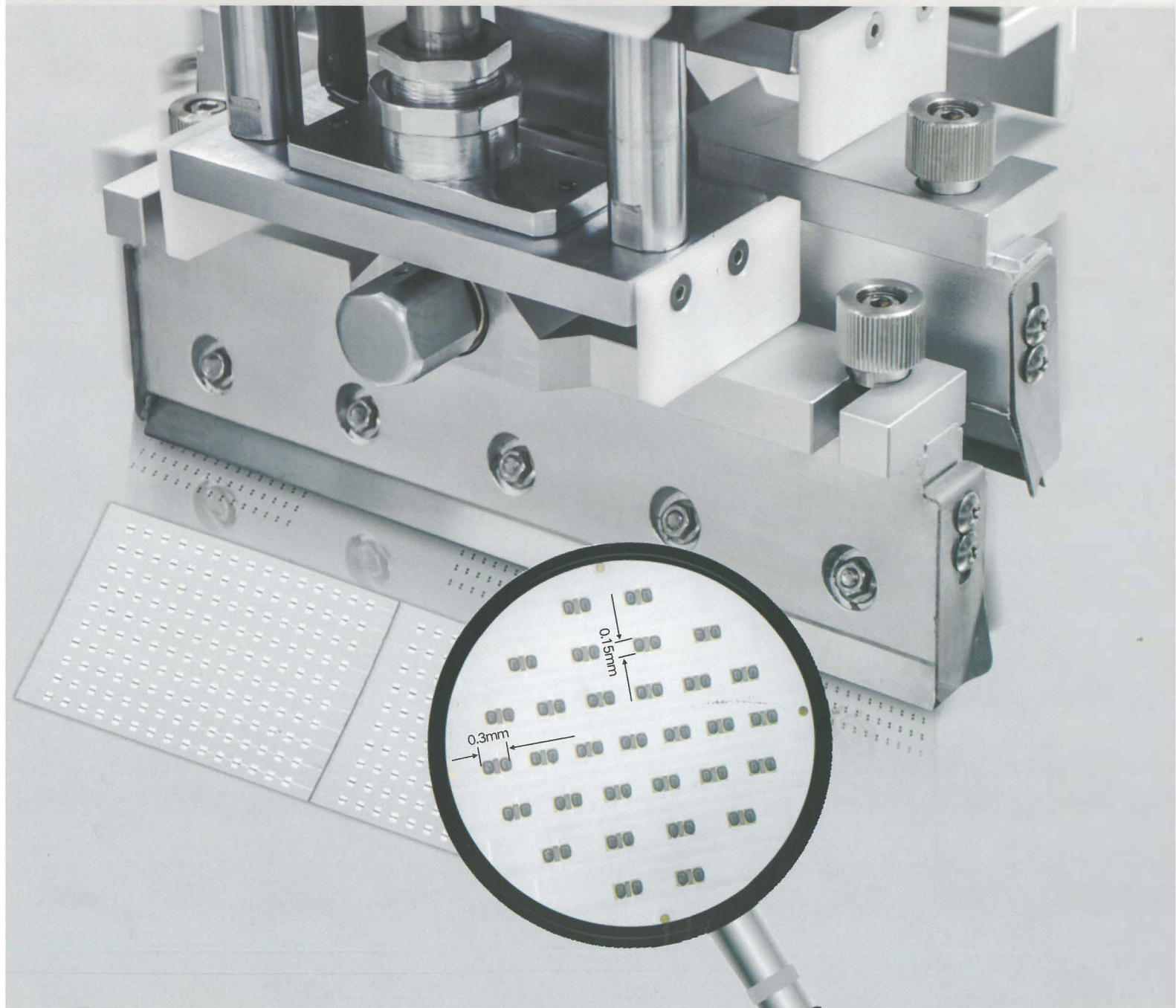
HC AUTOMATION

Precision SMT Screen Printer Specialist

Excellent Precision

High-Performance Vision Screen Printer

CCS-600 / CC500

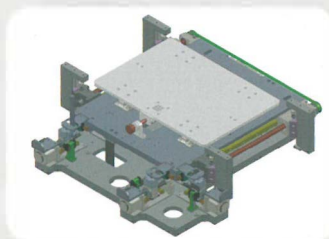




CCS-600 / CC500 High Precision Printing System

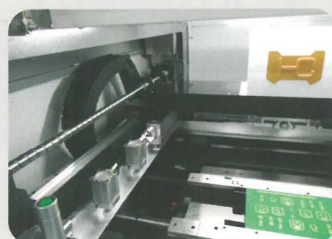


**Outstanding
 speed accuracy
 and capability,
 More reliability
 and efficiency
 for printing fast.**



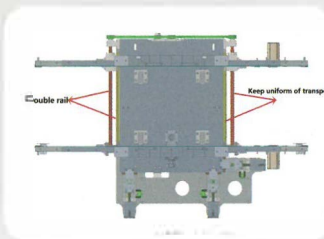
CLOSED-LOOP

The electric support platform according to thickness of PCB to adjust the support height automatically. XY, Z three axis Correction mechanism using closed-loop controlled by connect motor.



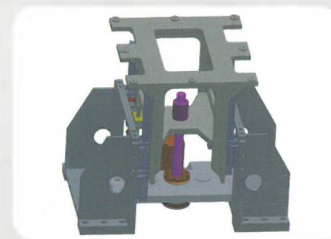
Transport of Squeegee

The scraper head is controlled by stepper motor which is direct connected to ball-screw. According to different solder paste viscosity and stencil aperture feature, the scraper could print precisely and stable, eliminating the unevenness during solder paste flow.



Transport system

Transport rail is motorized width adjust with double guide rails and double ball-screw rod to keep the uniform and reliable for PCB clamping for a long work time.



Frame & Lift Table

Unique patented double triangular structure of one Z ball-screw and Four linear Guideway platform to guarantee the precision and stability.

Machine standard configuration

Standard Configuration	CCS-600	CC-500
Total System Alignment	± 8 microns (at 6Sigma), Cpk.: 2	
Wet print Accuracy	± 15 microns (at 6Sigma), Cpk.: 2	
Core Cycle Time	7 secs+process	
Board Handling Size(minimum)	50mm(X)x50mm(Y)	50mm(X)x50mm(Y)
Board Handling Size(maximum)	600mm(X)x510mm(Y)	500mm(X)x350mm(Y)
Board Thickness	0.2mm to 6mm	
Board Weight(maximum)	3kg	
Board edge clearance	3mm	
Board Fixture	At the bottom of the support, elastic side clamping, Z-direction tableting , Optional centerst vacuum.	
Board Support Methods	Magnetic pins,Support blocks,automatic up-down table	
Board Underside Clearance	Programmable 13mm (25mm option)	
Camera	CCD digitai Camera for Remote coaxial vision system tour way independent coaxial/ Geometry pattern match/Annular LED light source FOV 6.4*4.8mm Automatic capture	
Screen Frame Size	470X370-830 X 737 mm	
Stencil Alignment	Motorised via actuators X,Y, and Theta	
Under Stencil Cleaning	Interchangeable Under Stencil drops of rain type cleaning system , fully programmable with wet/ dry/vacuum wipe and the system can be combined of dry wipe, wipe with solvent ("wet wiping"length programmable within 600mm)	
Transport System		
Transport Speed	100-1500mm/Sec Programmable	
Transport height	900±40mm	
Type	Single piece with 3mm "U"type transport belts ,front rail fixed	
Width Adjustment	Programmable motorized rear rail	
Transport Direction	Left to right ,Right to left,Left to left, Right to right	
Printing Parameter		
Maximum Print Area	600mm(X)x510mm(Y)	500mm(X)x350mm(Y)
Print Pressure	0-30kg programmable	
Print Speed	10-200mm/sec	
Print Gap(Snap-off)	0mmt to 6mm	
Substrate Separation	Speed:0.1-125mm/sec Programmable with three step control	
Option Functions		
Automatic add solder	Cylindrical type automatic add solder and solder paste inspection function .	
Automatic Dispensing System	In view of the Different printing requirement , dispensing through glue ,solder paste.dispense line, padding etc can be performed after the printing process.	
Stencil check System	Through light source compensation at stencil and CCD real time inspection check on stencil holes which can rapidly detect,judge stencil after cleaning whether stencil holes is been block and auto clean. Is complement for PCB 20 inspection	
Machine Parameter		
Voltage	AC:220 Volts AC± 10% Single phase@50/60HZ 1↔ 1.5Kw	
Air Pressure	4-6kg/cm ²	
Air Consumption	Around 0.007m ³ /min	
Operating Temperature	-20 °C- +45 °C	
Machine Dimensions	1250mm(L) x 1450mm(W) x 1510mm (excluding the height of indicating lighthouse)	
Weight	Approx: 1200Kg	