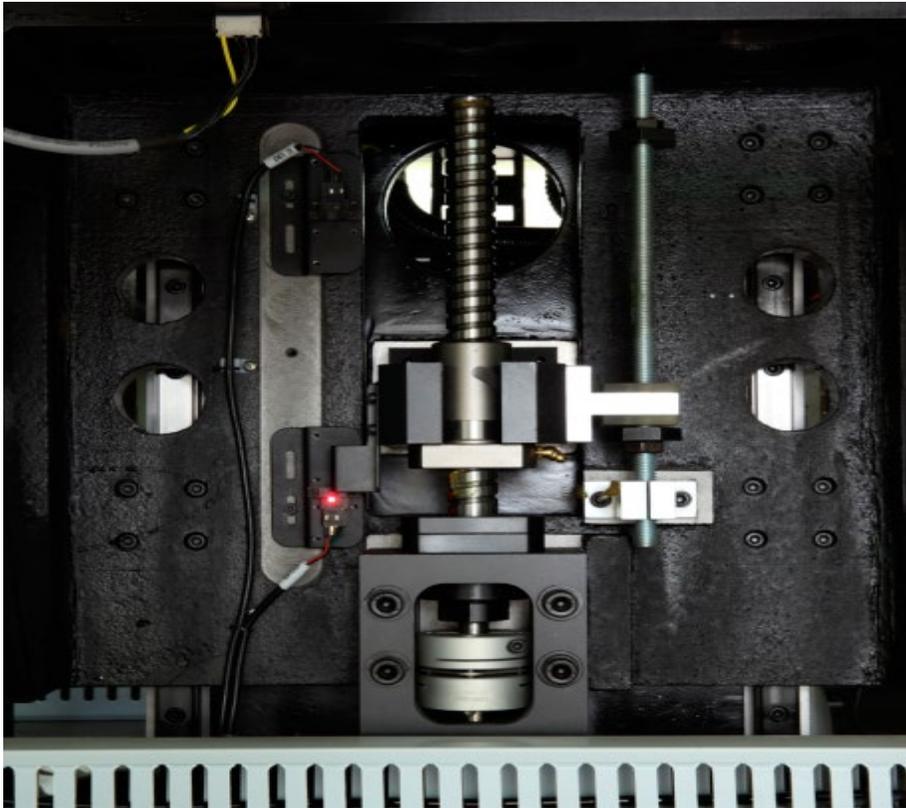# H610 AUTOMATIC STENCIL PRINTER

Description:

H610 with automatic recognition function of machine vision, using high-precision Servo drive system to achieve fast and accuracy alignment .The precision can reach +/- 0.01mm.It build in independent cleaning system, the cycle time less than 7s,ensure the high printing quality of solder paste and ultimate product efficiency. It also can print 0.3mm ultra fine pitch pad perfectly .This machine controlled by computer ,with Windows XP user interface and abundant software functions, it can set printing height, squeegee pressure, printing stroke, speed, and stencil automatic cleaning cycle etc. by software .It designed to keep the stability of printing quality, and greatly facilitate to users.
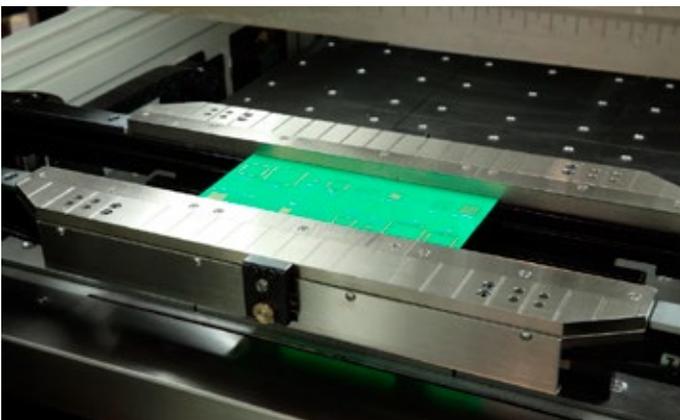
Features:

- Programmable squeegee system
- Stencil automatic position system
- Independent cleaning system
- PCB transfer and position system
- Easy-to-use interface humanized English/Chinese
- Image capture system
- 2D inspection & SPC
- CCD stencil alignment
- Automatic PCB thickness adjustment
- 3 stage conveyor(option)

Details:

Z-axis servo movements Direct
Z axis servo screw device to ensure accuracy, speed and snap off stability
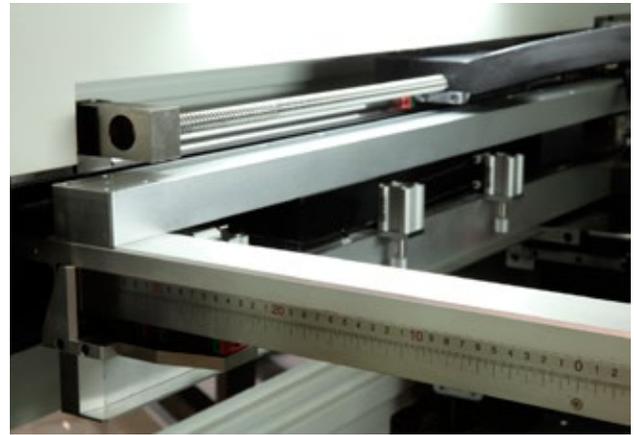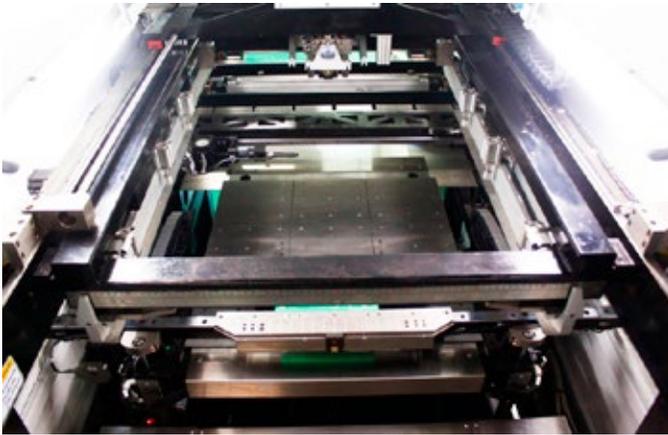

HTGD dedicated PCB thickness adaptive system
Structure is simple and reliable, adaptive PCB thickness. Smart quickly achieve different thickness matching the PCB and its transmission and clamping mechanism.
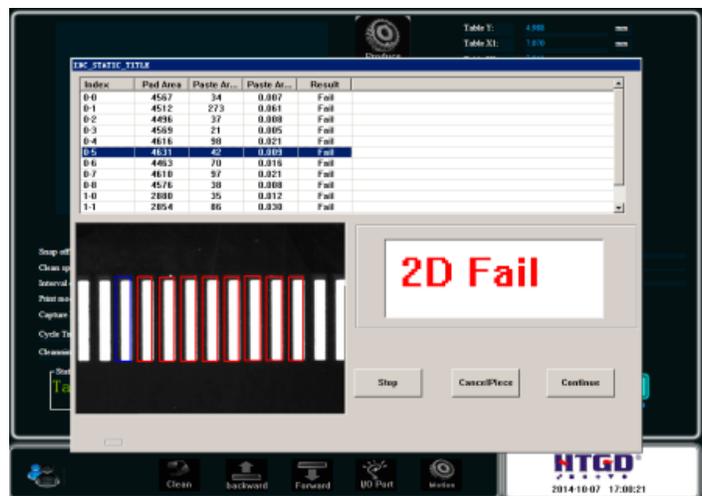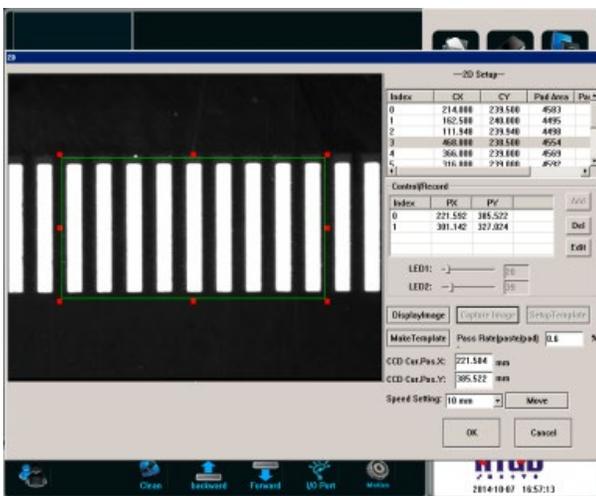

Servo-driven, closed-loop control blade system
Squeegee Y-axis servo screw drive with higher precision and more stable operation, extend the life; built-in precise pressure control system, providing customers with a good print control platform.
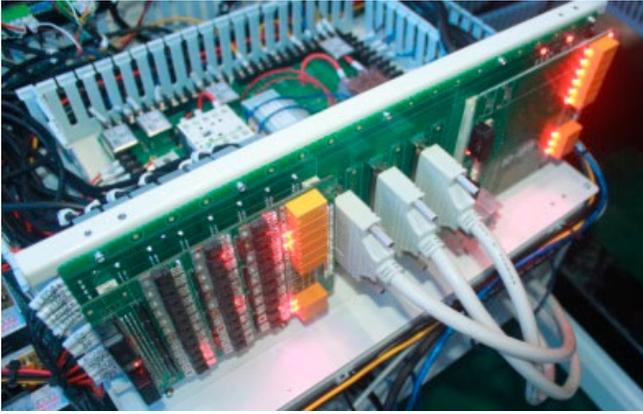
CCD stencil alignment system

H610 use frame and stencil to do alignment, Z axis only control up and down, easy to ensure the printing accuracy, meanwhile, this function can minimize the cycle time ,and increase production efficiency frame correction, linear motor drive, more stable than the "correction system platform," make the machine more in line with the requirements of printing more accurate. Simply enter the stencil MARK point, can be achieved without an adapter in the production process of quick-change models; Y to automatic positioning

Inspection Software: 2D inspection

2D inspection system immediately detects solder paste deposition defects, such as deviation, lack solder paste, miss solder paste, misalignment , solder bridge, etc to ensure print quality

- All electrical parts with labels, customer can find out the problem depends on error message of PC and electrical drawing soon. H450 can detect the fault by red indicating light from I/O cards, bright is normal condition, dark is abnormal.

- Integrated circuit and upgraded movement control card to make operation and maintenance more convenient H450 can modify printing parameter during production process.

Specifications:

H610 SPECIFICATIONS	
Maximum PCB Size (X x Y)	610mm x 610mm
Minimum PCB Size (X x Y)	80mm x 80mm
PCB Thickness	0.4mm~14mm
PCB Warpage	Max. PCB Diagonal 1%
Maximum PCB Weight	6Kg
Plate Edge Clearance	Up to 2.5mm
Maximum Bottom Clearance	25mm
Transport Speed	1500mm/Second(Max)
Transport Height	900±40mm
Transport Direction	Left-Right, Right-Left, Left-Left, Right-Right
Transmission Mode	One Stage (three stages: option)
Clamping System	Patented over the top clamping /side clamping/vacuum nozzle(option)
Support System	Magnetic Pin/Support Blocks/Special tooling
Print Head	Two independent motorized print heads Gas-electric driving head (Option) Closed-loop print head (Option)
Frame Size	550mm x 650mm~800 mm x 864 mm
Squeegee Type	Steel/Rubber Squeegee Blade(Angle:45/55/60)

H610 SPECIFICATIONS	
Squeegee length	220mm~650mm
Squeegee height	65±1mm
Squeegee thickness	0.25mm Diamond-like carbon
Print Mode	Single or Double Squeegee Printing
Stencil Snap-off	0.02 mm - 12 mm
Print Speed	6 mm/sec - 200 mm/sec
Print Pressure	0.5kg - 10Kg
Print Route	±320 mm(from central)
Imaging Horizon　(FOV)	10.24mm x 6.4mm
Adjustment Range	X,Y:±10.0mm,θ:±2.0°.
Vision System	Look Up/Down Optics Structure/CCD/Geometry Pattern-match
Repeat Position Accuracy	±0.01mm
Printing Accuracy	±0.025mm
Cycle Time	≤7s
Changeover Time	≤5mins
Power Supply	AC220V±10%,50/60HZ,15A
Air Supply	4~6Kg/cm2, 10.0 Diameter of Tube
Operating System	Windows XP
Machine Dimensions	1220mm x 1660mm x 1435mm
Machine Weight	1230Kg

Includes:

1.Automatic vision alignment
2.2D inspection system
3.PCB support—side clamp, vacuum hold-down tooling, magnetic support pins
4.Dual squeegee assembly with single & dual stroke control
5.Pair of metal squeegees included
6.SMEMA Interface
7.Wet/dry/vacuum under stencil wiping system
8.Industrial PC with LCD monitor and Windows operating system
9.MC control software
10.One year parts warranty
11.Clean Paper for testing
12.Tooling Box
13.Solder paste mixing knife

Package & shipping：

Dry partical with safty certificaion
used in machine to avoid moisture

Transportation

PACKAGE

Vacuming package for long
distance shipping

Plywood case and metal
frame for big case

Shock watch & Tilt watch