



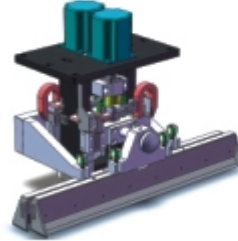
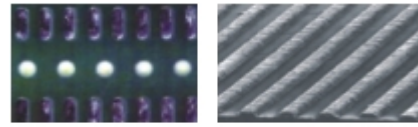
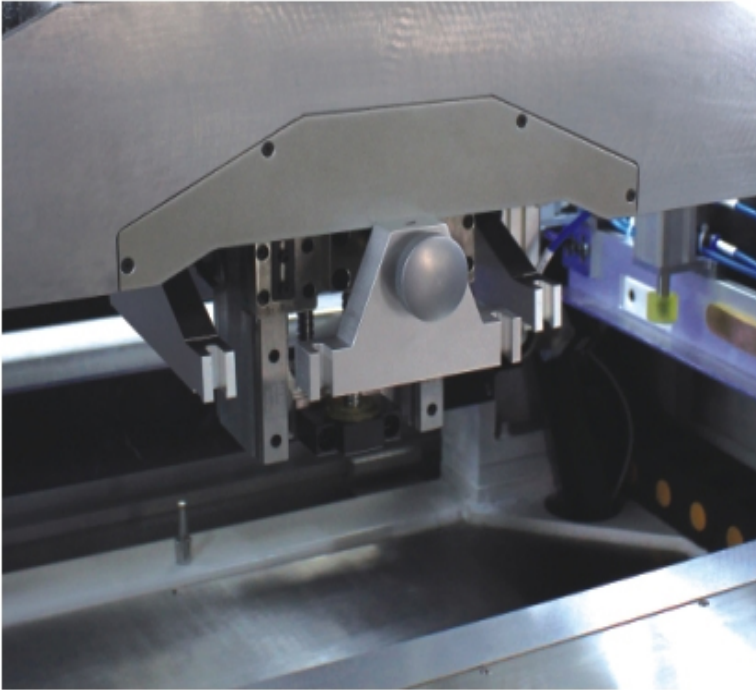
SHENZHEN HETIANGUDE AUTOMATION EQUIPMENT CO.,LTD.

Fully Automatic Printer Machine GD610

GD610 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.



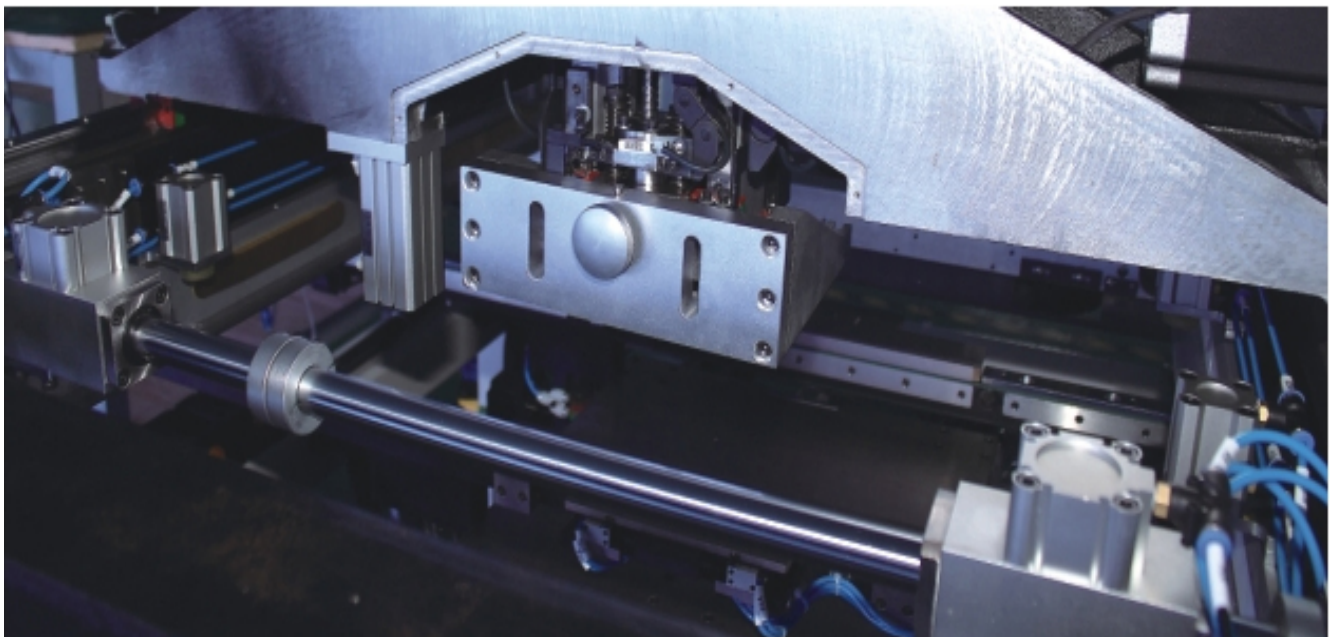
■ Programmable system of scraper



Independent, direct driven motor squeegee .Built-in accurate pressure control system. Can accurately determine the scraper the pressure value. Don't need to hang the blade type. The change of the length or thickness.

■ Steel mesh automatic positioning system

Simply enter the stencil MARK point location without adapter can automatically locate the stencil clamping system, User-friendly, flexible replacement of different sizes steel net.



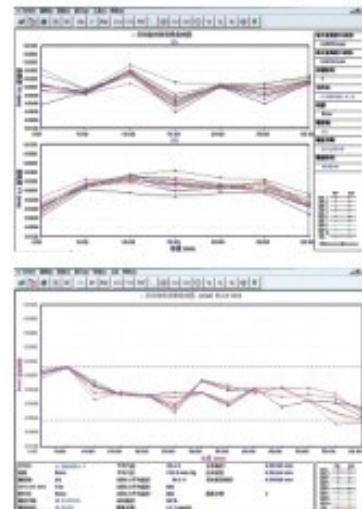
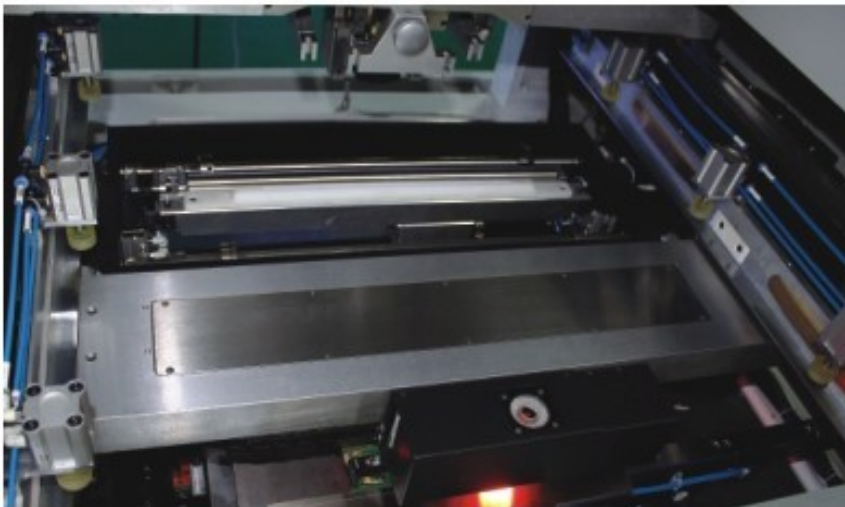
■ Independent of the cleaning system

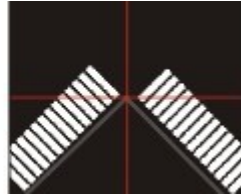
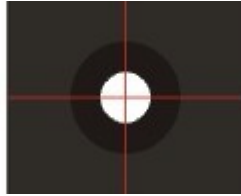
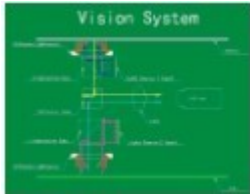
The length of paper general paper organization,
High power fan with venturi vacuum generator to make duct adsorption force rose to a higher level,
Dry, wet and vacuum cleaning method, and can choose any free combination,
Users can set according to the actual demand, time and speed parameters, such as cleaning cycle.



■ High rigid image capture system

Introduction of the finite element theory, the optimization design support beams;
The introduction of advanced detection instruments, realize the visual axis motion state, the easy to diagnose fixed;
High rigid linear actuator, limited improve CCD moving precision grade,
Outstanding movement stability and rapid alignment time to reduce Cycle time laid a solid foundation.





Four road light compensation,
light intensity is adjustable,
Uniform illumination, collecting
images more hasten is perfect
New institutions, advanced
hardware, horizon

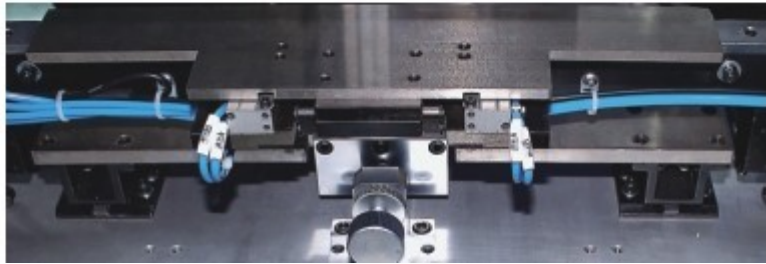
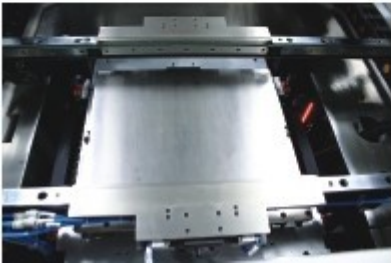
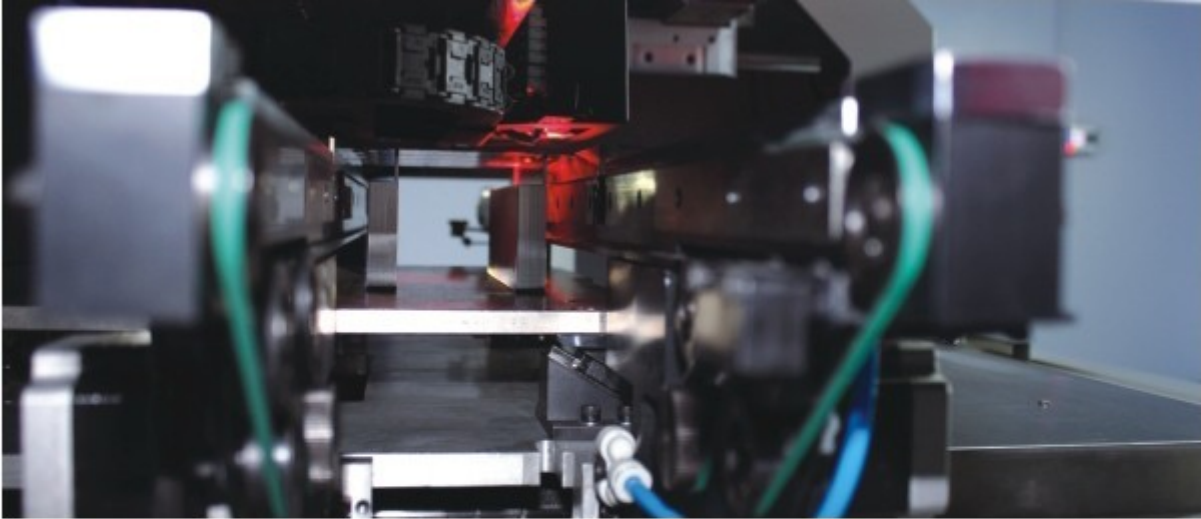
■ Strong base



High stiffness of steel
frame,
Precise machining after
casting
For the machine base and
working platform
Provide reliability and
repetition
Precision can keep
consistent for years.

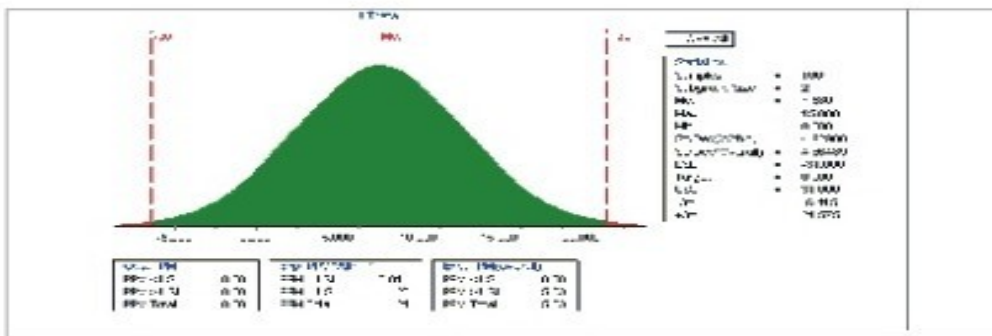
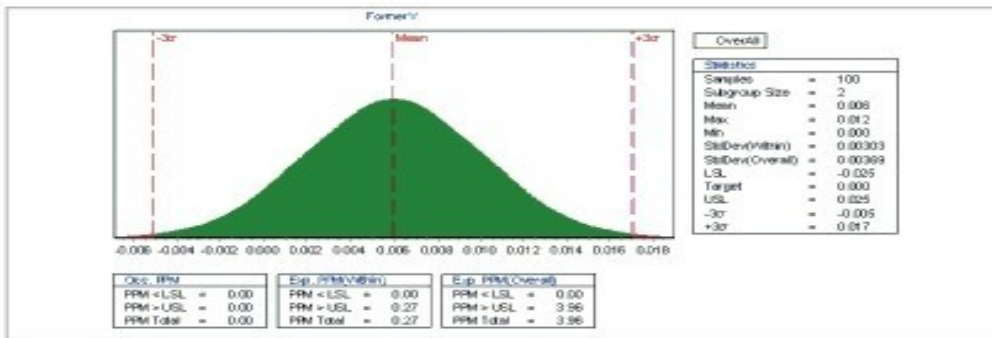
■ PCB transport and positioning system

Flat belt transmission, enhance the guide rail transport capacity, transport speed
Stepper motor drives, programmable implement different transportation speed and action
Base board edge clamping system will substrate disposition raise to a higher level,
To get the best base powder hold power, edge clamping system using software to control the pressure,
Adjusted to match the programmed substrate thickness,
The solution with the top clamping system firmly clamping base board,
Provide the best template or between substrate,
Realize effective precipitation of solder paste,
Improve the printing quality.



■ Close to + level of process capability indices

Unparalleled process capability indices to make product set,
Consumable products transformation, complement,
Maintenance and repair to link such as the length of time is reduced to a minimum,
For the processing of more qualified board machine in a unit time for laying the groundwork.



easy to learn and easy to use

Easy to learn and easy to use operating system makes the equipment performance is more outstanding, independent development of operating software based on the familiar Windows

Operating system, provides a convenient graphical user interface, the built-in self-test device provides all of the machine function application and errors Repair instructions.



GD610**Technical Specifications****PCB Parameters PCB**

Maximum PCB Size (X x Y)	610mm x 610mm
Minimum PCB Size (Y x X)	50mm x 50mm
PCB Thickness	0.4mm~14mm
PCB Warpage	Max. PCB Diagonal 1%
Maximum PCB Weight	6.0Kg
Plate Edge Clearance	Up to 1.5mm
Maximum Bottom Clearance	25mm
Speed of Transmission	1500mm/Second(Max)
Apart from the Ground Transmission Height	900±40mm
Transfer Orbit Direction	Left-Right, Right-Left, Left-Left, Right-Right
Transmission Mode	One Stage (Option: Three Stages)
Clamping Direction of PCB	Flatten the top automatic tablet, software adjustable pressure elastic side edges lock bottom suction vacuum chamber
Board Support Method	Magnetic Pin/Contour Blocks/Special Work piece Fixture

Printing Parameters

Print Head	Two independent motor drivers to drive print heads Gas-electric driving head(Option) Closed-loop print head(Option)
Form Work Frame Size	370mm x 470mm~737 mm x 864 mm
Maximum Printing Area (X x Y)	610mm x 610mm
Squeegee Type	Steel/Rubber Squeegee Blade(Angle:45/55/60 or according to actual effect to set the angle)
Length of Squeegee	220mm~650mm
Height of Squeegee	65±1mm
Thickness of Squeegee	0.25mm Diamond-like carbon
Printing Mode	Single or Double Squeegee Printing
Stripping Length	0.02 mm - 12 mm
Printing Speed	6 mm/sec - 200 mm/sec
Printing Pressure	0.5kg - 10Kg
Printing Stroke	±320 mm(from central)

Image Parameters

Imaging Horizon (FOV)	10.24mm x 6.4mm
Adjustment Range	X,Y:±10.0mm,θ:±2.0°.
Benchmark Type	Standard Shapes (Refer to SMEMA SPEC) PAD and Opening
Camera System	Single camera ,up/down single imaging visual system, geometric matching orientation

Performance Parameters

Calibration Repeat Precision	$\pm 12.5\text{micron/} (\pm 0.0005") @ 6 \sigma, C_p \geq 2.0$
Printing Repeat Precision	$\pm 25 \text{ micron/} (\pm 0.001") @ 6 \sigma, C_p \geq 2.0$
Cycle Time	$\leq 7.5\text{sec}$
Changeover Time	$\leq 5\text{mins}$
Equipment	
Power Requirement	AC220V $\pm 10\%$,50/60HZ,15A
Compressed Air Requirement	4~6Kg/cm ² , 10.0 Diameter of Tube
Operating System	Windows XP
Outline Dimension	1220mm x 1660mm x 1435mm
Weight of Printer	1320Kg

