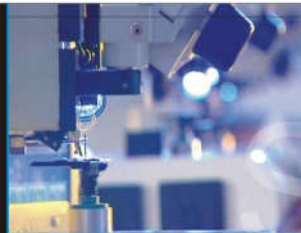




# Characteristic



# Specifications

## Genesis

### Lead Free Hot Air Reflow System



- Heating System, forced Convection Hot Air System, High Performance stable temperature & heating efficiency. Heating module design & stainless steel inner body. Easy for maintenance and cleaning. Front & Rear air reflow circulation. Ensure the accuracy and stability of temperature & air speed. Temperature accuracy  $\pm 1^{\circ}\text{C}$ , PCB temperature Deviation  $\pm 2^{\circ}\text{C}$ , Heatup time  $\leq 20$  minutes. Long-life & high performance hot-air motor with adjustable wind speed. Transducer control.
- Control system: windows operation system with Chinese / English language display, Easy control & Parameter setting. Support Windows8/7/2000/XP operation system. Individual temperature control and display of each zone. All functions showing clearly on screen: operator password, operation record, PCB conveying display, inner temperature profiler system and smart-para function, to save the setup time. Temperature process monitor to record the change of temperature of each zone
- Cooling unit: high efficiency water circulation + external chiller cooling system, meet with the requirement of lead-free cooling. Cooling zone display and controller.
- Flux collection device, flux management system, environmental friendly, provide clean exhaust air and oven inside.
- N2 control unit: input N2 flow meter & O2 Analyser to control correctly the N2 flow, to realize low consumption and low cost production. O2 content record function to record and save the change of O2 density.

## PEAK-350

### Lead-Free Wave Soldering System (Modularize)



- WIN2000 Operation System, included Digital Reference Setting, Storage. Operation software available in English and Chinese version. Also, available in networking communication system.
- Using PC-PLC dual auto control system, dual operator interface, with 2 monitors of LED and touch screen. WIN2000 operation system, come with English/Chinese version. IEC60204-1 standard for wiring system, flexible connection method, guaranty the wiring stability.
- New conveyor system came with separation design, better stability to prevent the conveyor rail distortion. Resin Spring Pressed Finger. Direct link structure for smooth PCB boards loading.
- Modular type design in Spray Fluxer unit system easy for servicing and maintenance. By using EFD type spray fluxer nozzle giving high velocity and viscosity. Suitable for Water base flux technology.
- New Convection Hot Air System + Micro Hot Air design to make sure the hot air volume stable, 3 separate controllers with drawer type design provided easy maintenance and able to customize the heater panel design. Temperature control in between  $\pm 3^{\circ}\text{C}$ .
- Flexible Air-Cooling System (Option: Air Cooled Chiller)
- Casting Solder Pot system given better prevention for oxidation. New tornado nozzle design given stable wave form. Automatic solder dross collector and outlet adjustable knob for easy adjusting second wave shading angle and flow velocity. Temperature control accuracy  $\pm 2^{\circ}\text{C}$ .
- Using motorize system to control Solder Pot loading and Up/Down moving. Safety

## SEM-668G2

### Full Vision Automatic Screen Printer



- Consummate vision system: Using high precision CCD with functions of image identification and manipulation. Ensure the image calibration more rapidly and exactly.
- Pressing parts on Z direction, handling deformed PCB.
- Special optimized design for Squeegee beam, dexterous and good appearance.
- Flexible PCB clamping design and stencil clamping system.
- Combined working table, magnetic motherboard can be set up with back-up pin and vacuum nozzle according to the PCB size. Make clamping more rapidly and easily.
- Automatic stencil cleaning system including dry, wet, vacuum, and manual cleaning is available.
- Intelligent software system for easy operation. Parameter can be set thru the windows interface. Less than 10 seconds printing cycle to completely meet the modern production.

| Item  | 607  | 607N | 608                                 | 608N  | 610                                  | 610N |
|---|--|------|-------------------------------------|---|--------------------------------------|------|
| PCB Max. Width                                | W460mm/3,490mm   |      |                                     |   |                                      |      |
| Component Height                              | Upper Max. 30mm; Lower Max. 20mm   |      |                                     |   |                                      |      |
| Heating Zone Structure                        | 7 Heating Zones, 14 Heating Modules  |      | 8 Heating Zones, 16 Heating Modules |   | 10 Heating Zones, 20 Heating Modules |      |
| Heating Length                                | 2540mm   |      | 2900mm                              |   | 3000mm                               |      |
| Cooling Type                                  | Water Circulation + Air Cooled Chiller   |      |                                     |   |                                      |      |
| Temp. Control Range                           | Rm. temp. $\sim 300^{\circ}\text{C}$   |      |                                     |   |                                      |      |
| Temp. Accuracy                                | $\pm 1^{\circ}\text{C}$ Enhanced P. I. D. Control  |      |                                     |   |                                      |      |
| PCB Temp. Deviation                           | $\pm 2^{\circ}\text{C}$ PCB Blank Board  |      |                                     |   |                                      |      |
| Control Type                                  | Industrial Controller / P. I. D. Control + PLC Option  |      |                                     |   |                                      |      |
| Operation Interface (M/H)                     | Windows operation with Chinese / English display   |      |                                     |   |                                      |      |
| Power Off (Reset)                             | Delay Power - OFF  |      |                                     |   |                                      |      |
| Conveyor Direction & Height                   | From L to R/R to L; optional, Conveyor Height: 500 $\pm$ 20mm  |      |                                     |   |                                      |      |
| Conveyor Type                                 | Chain & Mesh Conveyor (Mesh Width: 50mm)   |      |                                     |   |                                      |      |
| Conveyor Speed                                | 0.30 - 1.80M/M Programmable  |      |                                     |   |                                      |      |
| Power Consumption (Starting/Normal Operation) | 41KW / 11KW/min  |      | 46KW / 13KW/min                     |   | 55KW / 17KW/min                      |      |
| Power Source                                  | AC 380V 3-Phase 50/60Hz (Other Voltage Option)   |      |                                     |   |                                      |      |
| Dimension (Exclude Chiller)                   | 14640 x W1430 x H1635mm  |      | 15800 x W1430 x H1635mm             |   | 15750 x W1430 x H1635mm              |      |
| Net Weight                                    | Approx. 2000kg   |      | Approx. 2100kg                      |   | Approx. 2300kg                       |      |
| Color of machine                              | Standard: Xcan Changed By Customer Demand  |      |                                     |   |                                      |      |
| M. Control Unit                               | A Type (Air Type Model) - option<br>N Type (N2 / O2 Analyser, 2 N-Flow Meter, 3 N- Ventpipe)   |      |                                     |   |                                      |      |
| Others  | Temp. profiler system<br>UPS for Conveyor & Computer<br>Chain Lubrication/Computer Control<br>Over & Under Heat Alarm<br>Speed Abnormal Alarm<br>Conveyor Width Control System (auto/manual) |      |                                     | Elec. self-locked top cover<br>Smart Para function<br>Board Drop Alarm<br>O2 Content Record (Type Model)<br>Realtime PCB Location Monitoring System |                                      |      |
| Option  | Centre Board Support   |      |                                     | Double Chain Conveyor   |                                      |      |

| Item                                  | PEAK-350             | Item                    | PEAK-350                      |
|---------------------------------------|----------------------|-------------------------|-------------------------------|
| Conveyor Motor                        | 3 $\times$ 200V 300V | Wave Motor              | 3 $\times$ 220V 300V + 200V   |
| Conveyor Speed                        | 0.5 - 1.8m/min       | Solder Temperature      | MAX. 300°C                    |
| Conveyor Finger                       | Rigid type           | Cooling Fan             | 3 $\times$ 220V 600W          |
| Spray move                            | Stepping Motor       | Cleaning Pump           | 1 $\times$ 220V 10W           |
| PCB Size                              | 90-300mm(W)120mm(H)  | Conveyor Axle           | Aluminum 4-B'                 |
| Air Pressure Capacity of Spray Fluxer | 3-8Bar/Approx. 1Bar  | Dimension               | 3600(L) x 1400(W) x 1600(H)mm |
| Pre-Heater Fan                        | 15-18KW              | Total power consumption | Approx. 36kw                  |
| Solder Pot Heater                     | 220V 300W/Space      | Normal running Power    | Approx. 11kw                  |
| Solder Pot Capacity                   | Approx. 500kg        | Power                   | 3 $\times$ 380V 60Hz          |
|                                       |                      | Control System          | PC+PLC                        |
|                                       |                      | Net Weight              | Approx. 1800kg                |

| Item                     | SEM-668G2                           | Item               | SEM-668G2   |
|--------------------------|-------------------------------------|--------------------|---|
| Frame Size               | 420x620mm - 737x737mm               | Support System     | Magnetic Pin/3-axis table adjusted                          |
| PCB Size                 | 50x50mm - 400x350mm                 | Clamp System       | Vacuum nozzle, Side clamping, Pressing Parts On Z direction |
| PCB Thickness            | 0.2-3mm                             | Conveyor Direction | Left-Right, Right-Left, Left-Left, Right-Right              |
| PCB Warpage              | 3mm including PCB Thickness         | Squeegee Type      | 330mm Stainless steel (standard) 70-430mm Plastic (option)  |
| Conveyor Speed           | Max. 1500mm/min Programmable        | Cleaning System    | Dry, Wet, Vacuum (Programmable)                             |
| Table Adjustment Ranges  | X: 5mm, Y: 25mm, Z: $\pm 2^{\circ}$ | Cycle Time         | $\sim 10s$ Exclude Printing & Cleaning                      |
| Conveyor Height          | 900 $\pm$ 20mm                      | Air Require        | 4-8kg/cm <sup>2</sup>                                       |
| Squeegee Speed           | 0-300mm/s                           | AC Input           | AC 220V $\pm$ 10% 60/50Hz                                   |
| Squeegee Pressure        | 0.5-20kg/cm <sup>2</sup> / Approx.  | Power              | 3KW   |
| Squeegee Angle           | 60°                                 | Control Method     | PC Control  |
| FOV Ranges               | 10mmx15mm                           | Machine Dimension  | 1160(L) x 1410(W) x 1460(H)mm                               |
| Repeat Position Accuracy | $\pm 0.01$ mm                       | Weight             | Approx. 950kg   |
| Printing Accuracy        | $\pm 0.025$ mm                      |                    |   |