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PICK AND PLACE MACHINE (Four Nozzle)



Product name: LED PICK AND PLACE MACHINE (Four Nozzle)

Model: SIT-120MH

Product description

1. Panasonic Servo Motor, imported railway to ensure its stable and accuracy.
2. X.Y axis adopts Panasonic Servo Drive, cooperated with imported liner railway ensures its accuracy



and speed.

3. Four pieces of high-speed heads work at the same time, greatly improve the equipment performance to price ratio. Nozzle adopts imported railway with high precision and durable lifetime.

4. Easy operational program, much more convenient, automatic vision makes position fixing more accurate and convenient.

5. Multi Feeder optional, can meet different kinds of LED mounting.

6. Powerful software adopts numbers and images to display the program coordinate, easy and more convenient.

7. Software has powerful functions, programming coordinates using numerical and graphical display, coordinates correction and convenient change, graphical display patch schedule production process and components and re-put materials is convenient.

8. Platform: Y axis, X axis can be moved manually, speed adjustable, can achieve arbitrary point manual arrived, convenient programming.

9. Imported vacuum detection system can check the suction accurately to prevent material leakage and throwing effectively.

10. Internal negative pressure system: low noise, long service life and vacuum pressure constant.

11. Standard setting: 1 PC, 8 mounting heads, 16 nozzles.

12. Optional: 8mm, 12mm, 16mm, and 24mm automatic feeder, different nozzles, industrial pump, air compressor .



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| Model | SIT12-MHTV |
| Mount head | 4 pcs |
| Max circuit board size | 1200*300mm |
| Max moving range | X axis 1220mm, Y axis 430mm |
| Max moving range of Z axis | 20mm |
| Stable Mounting speed | 13000 cph |
| Max mount speed | 15000cph |
| Mount accuracy | ±0.01mm |
| Position method | Visual positioning , additive with Visual camera correction(v) -patent |
| Component available | SMD Components & leds : 0603 above like 0603,0805 , 1206,3014, etc . Resistance capacity parts 0603 -1608, chip 3528 and 5050, and various kinds of led , meet the SOP ,SOT chip SMT and compatible with all kinds of high power chip |
| Programme method | automatic Computer graphical programming + visual camera position With automatic scanning bonding pad function no need manual programming |
| Belt feeder | 8mm, 12mm, 16mm , 24mm and 32mm |



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| Feeder num | Normal 4 pieces ,Most extensions can be placed 7 pieces feeders |
| Operation system | WINDOWS XP |
| Compressed air | Self-patent internal vacuum device |
| Power supply | 220V,50Hz, 0.5 KW (save energy) |
| Weight | 500kg |
| Dimension | 2000*800*1250mm (smaller save place) |





Model : SIT-K80MH

Product description

1. Adopts import guide rail and geared motor drive the scraper seat, it can print preciously;
2. The printing scraper can rotate 45 degrees upwards to fix, convenient for printing screen board and scraper cleaning and replacement.
3. The scraper slide back and forth, to choose the appropriate printing position.
4. The combined printing platen has a fixed groove and PIN, easy installation and adjustment, suitable for single, double panel printing.
5. Combined with the printing (PCB) in X, Y, Z. Correction of fine-adjustment is convenient and quick.
6. PLC and touch screen control, simple and convenient to operate.
7. Can set the printing cycles, available multi-printing mode easy parameter setting.
8. Automatic counting function, convenient production statistics.
9. The touch screen have screen saver function, the time of screensaver can set freely, that protect and prolong the touch screen service time.
10. The scraper Angle is adjustable, steel, rubber scraper is suitable.
11. AE unique program design, printing scraper base convenient adjustment.



12. Printing machine speed touch screen display, can be regulation.

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| Max board size | 1200×300mm |
| Printing table size | 1280×320mm |
| Screen frame size | 440×370mm~1400×550mm |
| Squeegee speed | 0-100mm/sec |
| Power requirements | 220v 1P 50/60hz |
| Power for operation | 100w |
| Positioning system | pc outer or pin positioning |
| Adjusting for table | Front/back±10mm Right/left±10mm |
| Printing accuracy | ±0.02mm |
| Repeating accuracy | ±0.02mm |
| Air used | 4-6kg/cm ² |
| Machine dimension | 1600x900x1650mm |



Lead-Free Hot Air Reflow Ovens Model : SIT-810MH

Product description

Windows XP operation software with Chinese and English alternative. Whole system under integration control can analyze and display the failure. All production data can be saved completely and analyzed.

PC& Siemens PLC controlling unit with stable performance; high precision of profile repetition can avoid product loss attributed by abnormal running of the computer.

Unique design of the thermal convection of the heating zones from 4 sides provides high heat

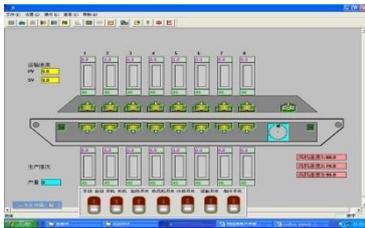
efficiency;

T between 2 joins zones can avoid the temperature interference; It can shorten the temperature difference between big-size and small component and meet the soldering demand of complex PCB.

Forced air cooling or water cooling chiller with efficient cooling speed suits all different kinds of lead-free soldering paste.

Low power consumption (8-10 KWH/hour) to save the manufacture cost

With complete alarms system ,failures can be listed on the PC interface



Operation System

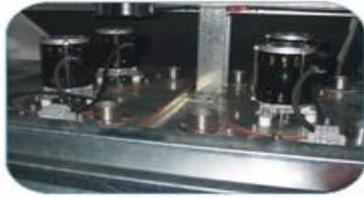
Basing on Windows XP operation software ,both English and Chinese versions are available.

Many functions can be achieved automatically on PC.



Control System

Siemens PLC+ Industrial PC ensures precise controlling unit and stabilized performance.



Air Cooling System

Forcible air cooling with low temperature complies with the demand of lead-free process.



Modularized Heaters

Modularized heaters can be removed for maintenance conveniently.



UPS Power

UPS provide backup power of the machine, and PCB will not be damaged while breaking-off or overheating.

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| Model : | SIT-800-MH | |
| | Heating zones | Upper 8 zones ,down 8 zones |
| Heating system | Heating length | 3140mm |
| | Heating type | whole hot air circle |
| | Max pcb width | 400mm |



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| Transporting system | Transmission direction | L→R |
| | Transmission net height | 880+-20mm |
| | Transmission type | Chain rail & mesh belt |
| | Transmission speed | 0-2000mm/min adjustable |
| Control system | 1.Power supply | A3ø380V 50/60Hz |
| | 2.Set-up power | 36kw |
| | 3.Working power | 7kw |
| | 4.Heating time | About 15 minutes |
| | 5.Temperature range | Room temperature ~400°C |
| | 6.Temperature control | PID control and SSR drive |
| | 7.Temperature accuracy | ±1°C |
| | 8.Abnormity warning | Temperature abnormity warning |
| Dimensions | 4200L*990W*1400H mm | |
| Net weight | About 1000kg | |



Computer Lead-free Dual Wave Soldering Machine

Model : SIT-PC-3050MH

Product description

Windows XP operation software with Chinese and English alternative available, whole machine under



integration control can display the failure and save all production data for further analysis.

External streamline design and modularized design inside is not only nice-looking but also easy for maintenance.

Flux sprayer creates good atomization with low consumption of flux.

Turbo-fan exhausting with shielding curtain can prevent atomized flux spreading to the preheating zones and ensure the operation safety.

Modularized heaters in preheating convenient for maintenance; Heating under PID control achieves stable temperature and smooth profile, which can solve the difficulty during lead-free process.

Soldering pot employing high-strength and distortion-free cast iron produces super thermal efficiency.

Wave spouts made of Titanium ensures little thermal distortion and low oxidation.

With automatic timing start-up and power-off of whole machine.

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| Specifications | SIT -3050-MH |
| Dimensions | L4500*W1450*H1750mm |
| Weight(Kg) | Approx: 1200Kg |
| Startup Power | 25kw |
| Run Power | 8kw |
| Control Method | PC+ SIEMENS PLC Control |
| Power | AC380V 50Hz/60Hz |



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|------------------------|-----------------------|
| Push type | Air cylinder |
| Spray Pressure | 0.3-0.5MPa |
| Spray wash | Auto Wash |
| Flux control | 0-100ml |
| Auto fill flux | Auto Fill |
| Ducting Dimensions | D 200mm |
| Exhaust | Up Exhaust |
| Pre heater Mode | Hot air or IR tube |
| Pre heater Zone number | 3 |
| Pre heater length | 1800mm |
| Pre heater Temperature | 25°C~250°C |
| Warm up time | Approx. 15min |
| PCB width | 50-350mm |
| Conveyor Direction | L-R |
| Conveyor Speed | 0-2000mm/min |
| Conveyor High | 750±20mm |
| PCB High | Top 120mm Bottom 15mm |
| Speed Control | Frequency |
| Finger | Dual Hook Finger |
| Conveyor Angle | 4°-7° |



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|------------------------|-------------------|
| Solder Wave Driver | Motor Drive |
| Solder Pot Material | Titanium , 316SUS |
| Pot Power | 9kw |
| High temperature | 350°C |
| Pot Capacity | 300-400Kg |
| Wave Motor Power | 1/2HPx2 3P220VAC |
| Cooling Method | Forced air |
| Finger Cleaning System | Auto |

