BGA Rework Station ND722R



High Automatic BGA Rework Station





Model: ND722R

- Repair Component Type: BGA/QFP/QFN/CSP/SOP,etc
- Component size: 1 ~ 60MM
- Machine Movement: <u>Automatically</u> Remove / Mount Component.
- CCD Optical Alignment System Placing Precision: 0.02MM
- Laser Positioning Function for fast positioning component and PCB.
- Highly Sensitive Mounting Pressure Control to protect PCB from damage.
- Repair Success Rate: 99%+

Technical Specification





Power: AC 220V±10% 50/60 Hz Total Power: 5.65KW(Max)

Heater Power: Top heater(1.45KW), Bottom heater (1.2KW),

IR Preheater (2.7KW), Other(0.3KW)

PCB Size: 412*370mm(Max);6*6mm(Min) BGA Chip Size: 60*60mm(Max);2*2mm(Min)

IR Heater Size: 285*375mm Temperature Sensor: 1 pcs

Operation Method: 7" HD touch screen

Control System: Autonomous heating control system V2

(software copyright)

Display System: 15" SD industrial display (720P front screen) Alignment System: 2 Million Pixel SD digital imaging system,

automatic optical zoom with laser: red-dot indicator

Electrical materials: Intelligence Programmable Controller Positioning: Laser Positioning and V-groove, PCB support

Vacuum Adsorption: Automatic Alignment Accuracy: ±0.02mm

Temperature Control: K-type thermocouple closed-loop

control with accuracy up to ±1°C

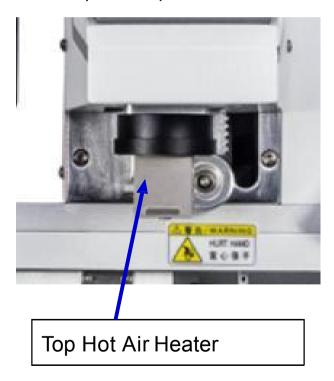
Feeding Device: No

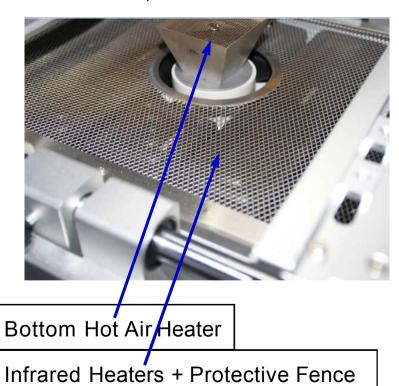
Dimensions: L685*W633*H850mm

Weight: 76KG



- ◆ Three independent heating area, Top hot air, Bottom hot air and infrared heating. IR Heaters is to avoid motherboards from deformation and bubble during uneven heat;
- To meet the need of lead and lead free high temperature soldering;
- ◆ Temperature precision ± 1°C, to make sure rework success rate up to 99%.







- ◆ Top Heater "Top air flow adjust "knob to adjust the speed of the top air.
- ◆ Bottom nozzle height adjust for any irregular boards with components on the back.
- ◆ Two of the infrared heaters on the very left and right side is powered on/switch according to the size of motherboards.







Bottom Nozzle Height Adjustable Knob



- ◆ Top heating and mounting head 2 in 1, serve drive mode, Automatic go down and up.
- Mounting head suckers available for all kinds SMD components, to replace tiny parts Components size 2*2~60*60MM



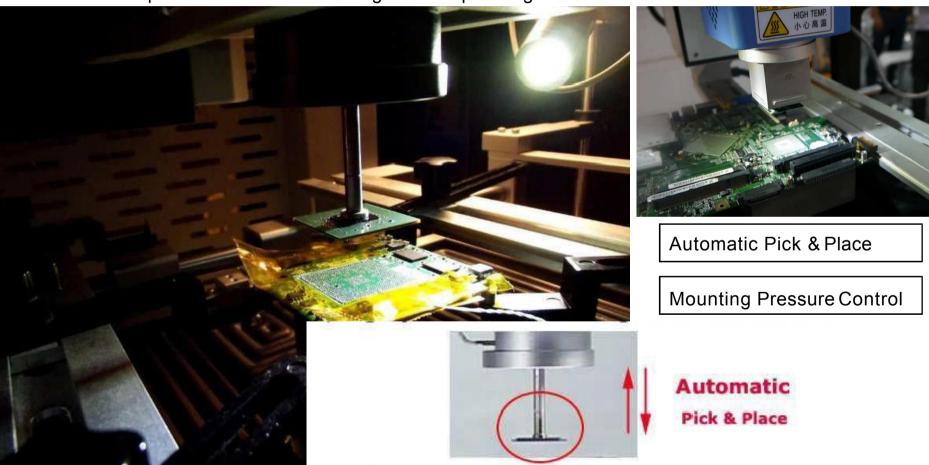
Top Heating and Mounting Head



Different Size Sucker for different size chip



◆ Top head automatic remove and mount chips, Inbuilt highly sensitive pressure sensor, to protect the PCB from damage when top head go down.

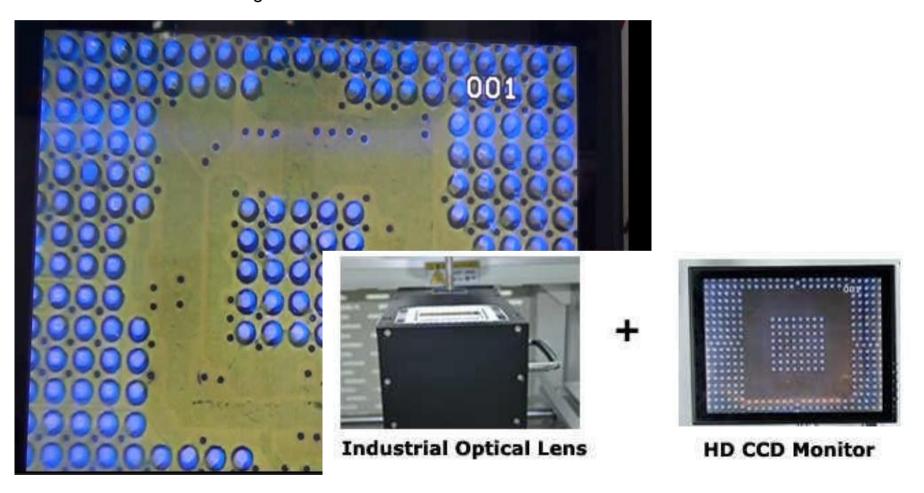


Mounting Head Can feel the Pressure 8g, to protect PCB from damage

Optical Alighment System



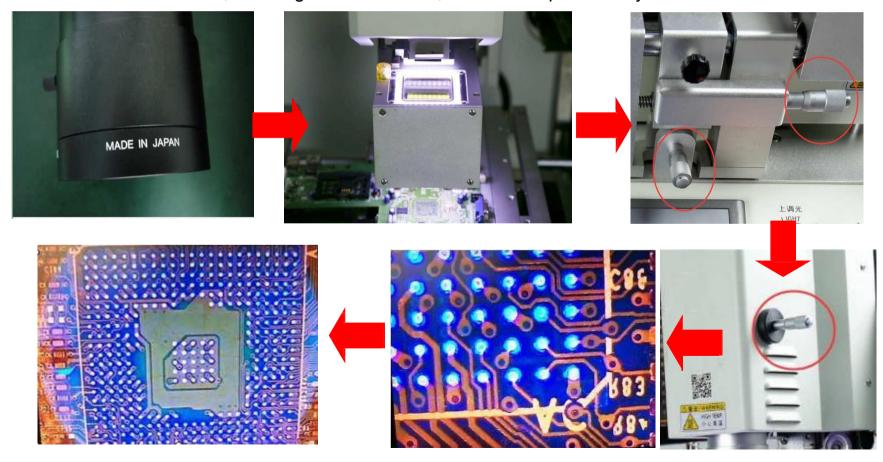
◆ Optical alignment system is CCD color display, image of PCB pads and BGA chip balls both shown on the high definition LCD monitor.



Optical Alighment System



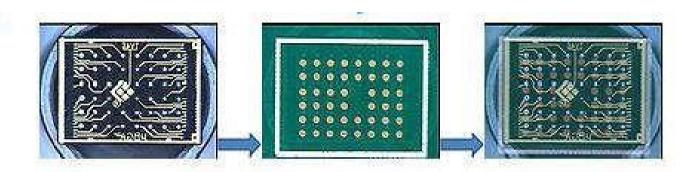
- Optical alignment system with high speed/definition vedio camera(Japan quality), to catch the clear image of both PCB pads and chip balls.
- ◆ Micro adjustment for BGA angle, PCB back and forth, to keep precision within 0.02mm.
- ◆ Camera auto focus, the image is 54x zoom in, to see each pointclearly.



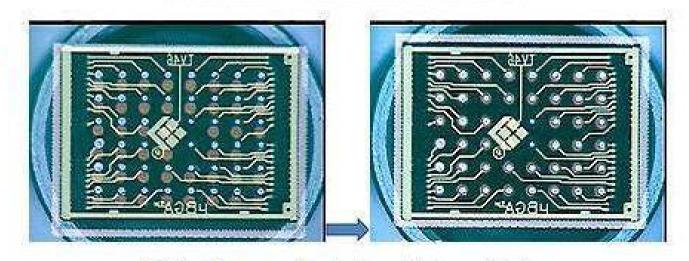
Optical Alighment System



◆ BGA Ballsand PCB Pads imaging



Parts image+board image+both of images.

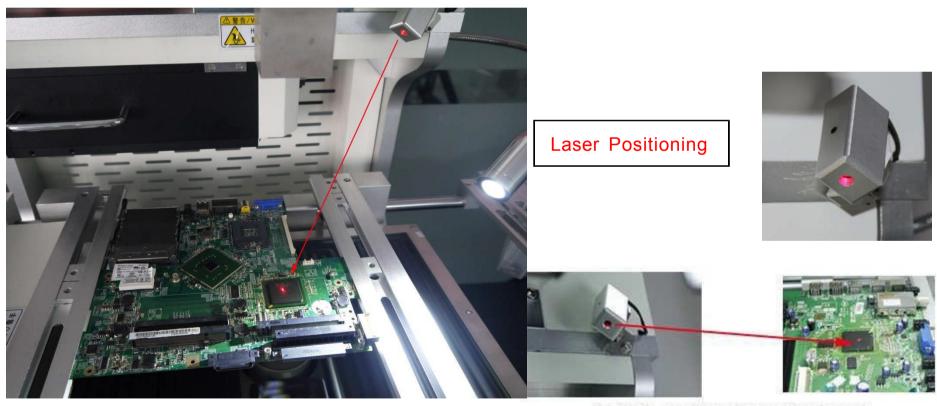


Both of image + adjust = Completion positioning.

Laser Positioning



◆ <u>Laser</u> Light for Fast PCB positioning, to help you fix PCB in the right place where chip is under the top nozzle.

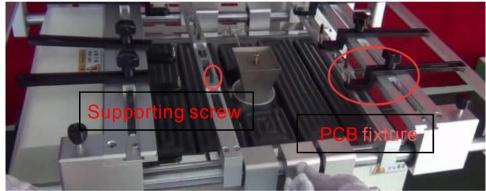


Easily to position the motherboard

Motherboard Support



- V-groove support for regular boards; <u>Universal Flexible</u> PCB Fixtures for any shape irregular boards.
 With supporting screw, to support PCB from all aspect, avoid deformation when welding.
- ◆ For PCB size 412*370MM.
- ◆ <u>Laser</u> Light for Fast PCB positioning.





Operation Interface

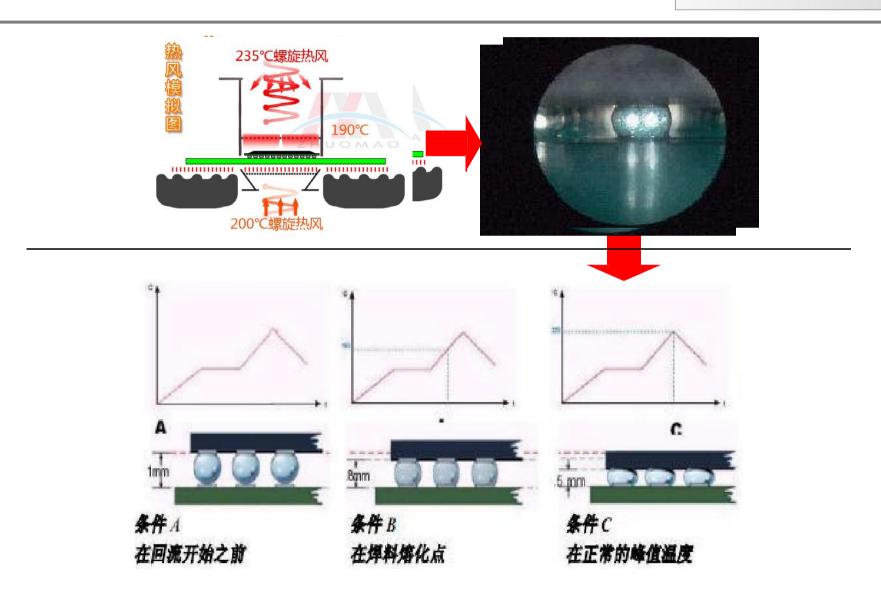


- ◆ 7 inch high definition touch screen with English and Chinese operation interface (optional).
- ♦ 8 segments setup of heating and cooling temperature, temperature curves can be downloaded or printed by USB2.0.
- ◆ 1~50 groups temperature profile can be recorded and renamed.



BGA Reflow





Safety



◆ Powerful crossflow fan to cool the moterboards after removing or soldering. To prevent it from deformation and bubble.









Safety



- Equipped with "emergency" stop switch, meet the international safety standards.
- ◆ Power short-circuit leakage protection switch.





Internal wiring



◆ Wiring are with wire code, thread, turnking protection.





Component type availability



- ◆ Rework SMD Component Type: BGA/QFP/QFN/CSP/SOP, etc.
- ◆ Component size: 1~60MM



Spare Parts



◆ Nozzle size is optional, customized service is available for any size.





◆ Hot air heater and infrared heater (The only possible consumable parts, will send extra one to you.)



