

Shenzhen General Technology Co., Ltd

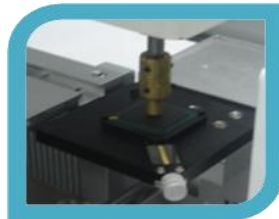
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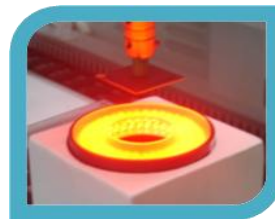
## Full Automatic BGA Rework station 865



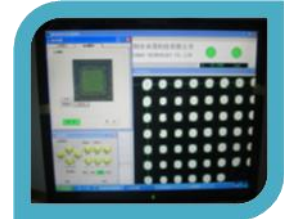
PCB board fixer



BGA picker



BGA positioning



positioning



BGA mount



optical grating safety protect



run show

**Fully automatic BGA Rework station 865**

## Specifications and technical parameters

1	Total Power	22KW(Max)
2	Top heater	2000W(1st heater)
3	Bottom heater	2000W(2nd heater)
4	3rd IR heater	16000W(the left six IR heating plate can be controlled independently)
5	power	AC 380V±10% 50/60Hz
6	Electrical materials	Servo Drive (Panasonic) + Industrial Host+ Heating plate(Germany)
7	Optical system	Servo Drive+ Automatic Vision Alignment System (Panasonic)
8	Temperature control	K-type thermocouple (Closed Loop), intelligent temperature compensation system, temperature precision within ±1 degree
9	Positioning	V-groove PCB support, and with external universal fixture
10	PCB size	660*600mm(Max);10*10mm(Min)
11	BGA chip	120*120mm(Max);1*1mm(Min)
12	External temp sensor	8 pcs
13	Work Mode	Computer intelligence operations
14	Placement Accuracy	X, Y axis and the R angle with micrometer adjust, servo drive, accuracy within ± 0.01MM
15	Dimensions	L1235*W1215*H1850mm (LCD stand not included)
16	Net weight	660kg

### 865 main features:

#### ◆ 3 independent control heaters:

The top and bottom heaters of 865 can heat PCB from upper and bottom at the same time, and large preheating area can prevent the PCB board from deformation. The top and bottom heaters work independently, controlled by software, it makes the lead-free repair easily. The external sensors can detect temperature precisely, analyze and calibrate the real temperature curve accurately at any time;

#### ◆ Precise optical alignment system

865 adopt Panasonic automatic Vision Alignment System, it can get the image of BGA and the PCB through the CCD camera and collect them on the image positioning processing system, calculate the offset position and angle through image processing software, then re-transmission to motor drive of servo controller to correct the position, thus completing the BGA placement. positioning accuracy

within  $\pm 0.025\text{MM}$ ; the image can zoom in, zoom out and micro adjust. Equipped with keyboard, mouse and 17" HD LCD monitor;

#### ◆ **advanced intellectualize operation system**

With computer operation, high accuracy K type close-loop thermocouple, and PID parameters automatic adjustment system; the top heater and mount head are designed independently; the X、 Y、 Z axis and  $\phi$  angle are controlled by Panasonic servo-control system to get accurate aligning point and heating point, with full automatic identify the height of BGA chips and mounting, it is of automatic positioning, mounting, soldering and de-soldering function. there are 8 segments rising temperature and 8 active temperatures. And it can save millions of temperature profiles and alignment parameters, for easy option desire profiles according to the different BGA chips.

#### ◆ **Superior safety functions**

With optical grating protection, when the machine is working, if the optical grating signal was blocked, then the machine will stop operation immediately, it can protect the operator' safety. When the servo motor collides with other objects, it will stop working also. It is of self-protect function; there are three color lamps to monitor the machine working at any time, it is of Superior safety protect function