



**Shenzhen Dinghua Technology Development Co., LTD.**

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# **Product Introduction**

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# Company Profile



## Shenzhen Dinghua Technology Development Co., LTD.

- Years experiences in SMT/BGA rework industry.
- Research, Develop, Design, Manufacture and Export BGA Rework Station, Automatic Soldering Machine, Automatic Glue Dispenser, Automatic Screw Locking Machine.
- 38 Patents And 97 Quality Control Process
- China National High-Tech Enterprise, IPC certified, SMT Association Membership, etc.
- One of leading manufacturers in China as a professional Rework Solution Provider.



## Business Partners



# Product Presentation



## Model:DH-G730

- Automatic & Manual
- CCD Optical Alignment System Placing Precision: 0.015mm
- Repair Success Rate: 99%+

Power	2500w
Top Heater	Hot Air 1200w
Bottom Heater	Hot Air 1200w
Power Supply	AC220V±10% 50/620HZ
Dimension	L500*W460*H640mm
Position	V-Groove PCB support, and with external universal fixture
Temperature Accuracy	±2 °C
PCB size	Max220*200mm, Min10*10mm
Workbench fine-tuning	±15mm forward/backward, ±15mm right/left
BGA chip size	80*80-1*1mm
Minimum chip space	0.15mm

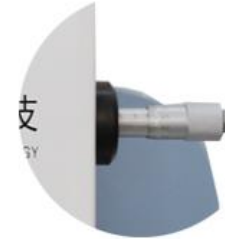
# Product Image



Monitor/Display



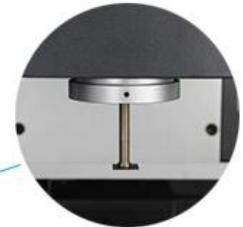
CCD Camera



Micrometer for chip



Top Air Flow Adjust



Vacuum Sucker



Emergency Stop Button



Micrometer for PCB



CCD lens light adjust knob



Joystick Control



HD Touch Screen

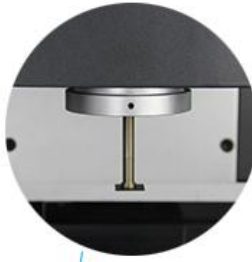
# Function



## ●Auto & Manual Control

## ●Automatic solder, desolder, mount. pick and place

## ●User-friendly



1. Automatically pick up and place chips.
2. Built-in pressure testing device, can detect pressure of 0.5g. While the testing device detects pressure, the head of the machine will stop falling automatically to protect the PCB from being crushed.
3. Different sizes of vacuum needles work for different sizes of chip.



7'' HD Touch screen

Resolution: 800\*480

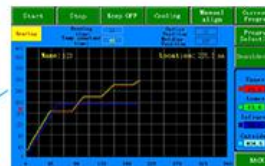
You can choose Desolder/Solder/Mount function.

4. English, Spanish, French and other languages systems available.

Step	Temperature	Time	Pressure	Speed	Height	Time	Time	Time
1	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
2	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
3	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
4	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
5	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
7	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
8	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
9	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
10	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
11	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
12	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
13	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
14	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
15	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
16	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
17	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
18	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
19	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
20	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
21	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
22	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
23	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
24	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
25	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
26	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
27	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
28	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
29	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
30	260.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

1. Can set different temperatures according to different types of BGA

2. Multi storage for temperature profiles for different PCB. Same PCB uses same profile. Time- Saving.



Instantly analyze temperature on touch screen, which effectively avoids failed repairing.



Joystick control

1. CCD lens zoom in/out

2. Up/down movement of top head

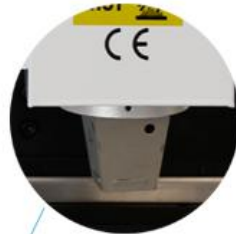


# Function



## Strict Temperature Control System

- Top and bottom heaters are hot-air heating, both heaters can set 8 segments rising temperature/constant time/temperature rising slope, can save tens of thousands of groups temperature curves.
- It uses k-type thermocouple closed-loop control and PID automatic temperature compensation system, together with PLC and temperature module to enable precise temperature deviation to  $\pm 2$  degree centigrade.
- The external sensor can detect temperature precisely, analyze and calibrate the real temperature curve accurately at any time.



**Top Heater ( Hot Air 1200W )**

1. Reflow vent design ensure focused and even heating, effectively increase success rate of repairing chips.
2. Top hot air flow is adjustable, to meet the demand of any chips.



- Top heater can be equipped with different size of nozzles for different size of chip.
- Reflow vent design makes heating even, effectively increase success rate of repairing



**Top Air Flow Adjust Button**

1. With top air speed adjustable function, prevent small BGA chip from moving flow by strong air.
2. Make air flow suitable for chips of different chips.



**Bottom Heater ( Hot Air 12000w )**

- Can be equipped with different size of nozzles for different size of chip.

# Function

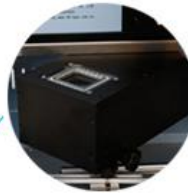
## Precision Optical Alignment System



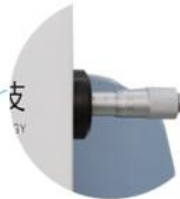
- Effectively monitor alignment of every soldering joint and increase success rate of repairing.
- Color optical system with functions of split vision, two color separation, zoom in/out and micro-adjust, equipped with aberration detection device, with auto focus and software operation



HD digital display  
Effectively show conditions of alignment of welding spot and IC chip.



Precise CCD optical alignment system.  
1. 1.6 million pixels.  
2. Mounting accuracy within 0.01mm.  
3. Brand: Panasonic



Micrometer  
1. Slightly adjust angle of IC chip.  
2. Mounting accuracy within 0.01mm.  
3. Effectively increase success rate



1. Slightly adjust brightness of LED light of CCD lens in up/down direction.  
2. Ensure precision alignment.  
3. Increase success rate.



Micrometer  
Slightly adjust position of PCB to ensure Precision alignment of every soldering joint, effectively increase success rate of repairing

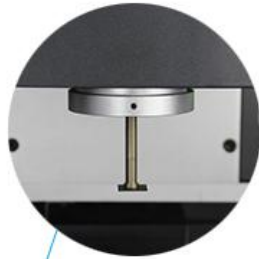


# Function

## Safety system



- With automatic power-off protection device when abnormal accident happens, with a double over-heating protection control.
- CE certified



Built-in pressure testing device, can detect pressure of 0.5g. While the testing device detects pressure, the head of machine will stop falling automatically to protect the PCB from being crushed.



### Voice warning

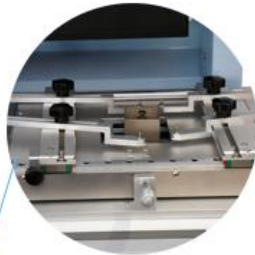
5 seconds before soldering/desoldering process complete.



1. Emergency stop
2. Automatic power-off switch in case of emergency.

# Function

## Other Functions



1. Flexible positioning methods suitable for IC chips of different shapes and sizes.
2. Unique design of workbench ensure even heating which effectively prevent deformation of motherboard.



### LED headlamp

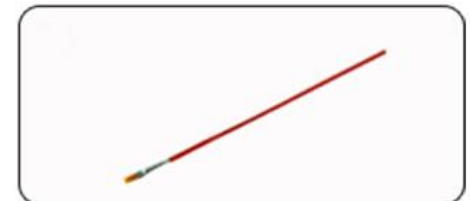
1. Super bright
2. Imported from Taiwan.
3. It can help you clearly see the melting condition of solder ball and check if there is any dirt on PCB and chip.

### USB 2.0

### USB port

1. Transfer information (temperature profile) to computer.
2. Update system.

# Packing List



# Certificates



**Shenzhen Dinghua Technology Development Co., LTD.**

深圳市鼎华科技发展有限公司



# Thank You!

- Contact: Emily Zhang
- MOB/WhatsApp/Wechat: +86 13724352458
- Email:[emilyzhang@dinghua-bga.com](mailto:emilyzhang@dinghua-bga.com)
- Skype:Emily Zhang-Dream
- Factory Address:Building 6B, Shengzuozhi Industrial Zone, Xinqiao, Shajing, Bao'an Area,Shenzhen,China
- Web:<https://www.sinobga.com>
- Web:<https://dh-bga.en.alibaba.com>