



Product Presentation

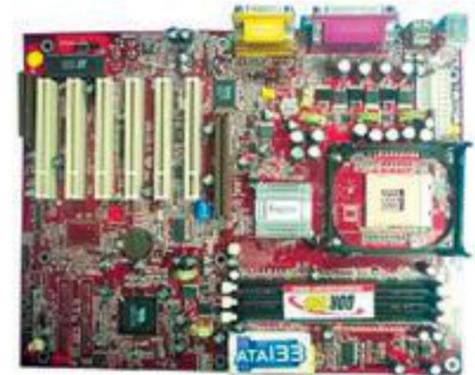
SMT Technology



- **SMC** Surface Mounting Components
- **SMD** Surface Mounting Device
- **SMT** Surface Mounting Technology
- **THT** Through Hole Packaging Technology
- **PCB** Printed Circuit Board

- **Reasons of using SMT Technology**

1. Pursue the miniaturization of electronic products, perforation plug element previously used has been unable to reduce size
2. Electronic product more complete, integrated circuit (IC) is no longer used by the perforating element, especially large-scale, highly integrated IC, we had to use surface mount components
3. Bulk products, production automation, factory requires high yield at low cost, producing high-quality products to meet customer demand and enhance market competitiveness
4. Multiple application and development of electronic components, integrated circuits (IC) development, and semiconductor materials
5. Electronic technology revolution is imperative, chasing the international trend

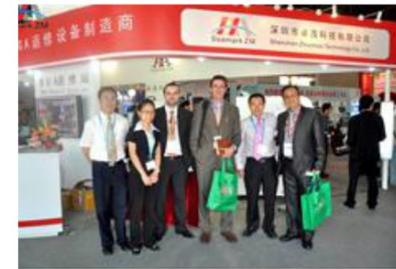


Company Profile



Seamark ZM Technology Group (H.K.) Co., Ltd

- ◆ Seamark ZM is a High-tec ventures of research, development, production and sales.
- ◆ Since 2005, with strong technical team, efficient management, perfect sales network, by introducing and absorbing overseas advanced technology, we constantly upgrade our existing BGA rework station four series of more than twenty varieties.
- ◆ On BGA rework systems, peripheral auxiliary equipment and supplies, to win the trust and support of our customers.



Production Series



◆ BGA/LED Rework Station ZM-R720A



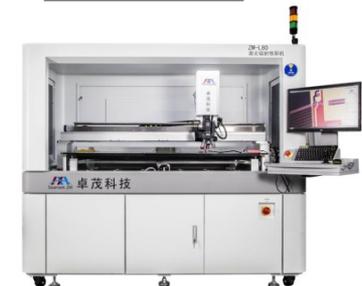
◆ X-RAY inspection machine X5600



◆ X-RAY SMD Counter Machine X1000



◆ TV LCD laser repair machine ZM-L80



Sales Network

- ◆ Sales network in more than 150 countries
- ◆ Agent in Africa, Asia, America, Europe, Australia
- ◆ Over 100,000 end customers
- ◆ The most popular brand among repair users.



Production Presentation



High Automatic BGA / LED Rework Station



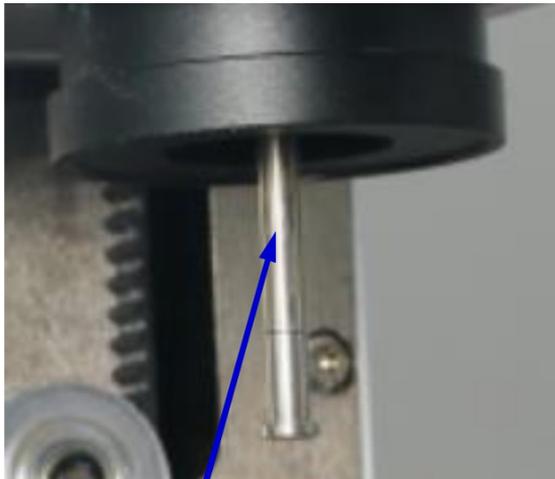
Model: ZM-R720A

- Repair component type: BGA/QFP/QFN/CSP/SOP/LED
- Component size: 0.6 ~ 60MM
- Temperature precision: $\pm 1^{\circ}\text{C}$
- Machine movement: automatically heat / pick up component.
- CCD optical alignment system placing precision: 0.01MM
- Repair success rate: 99%+
- **The First machine can repair 01005 components in China**

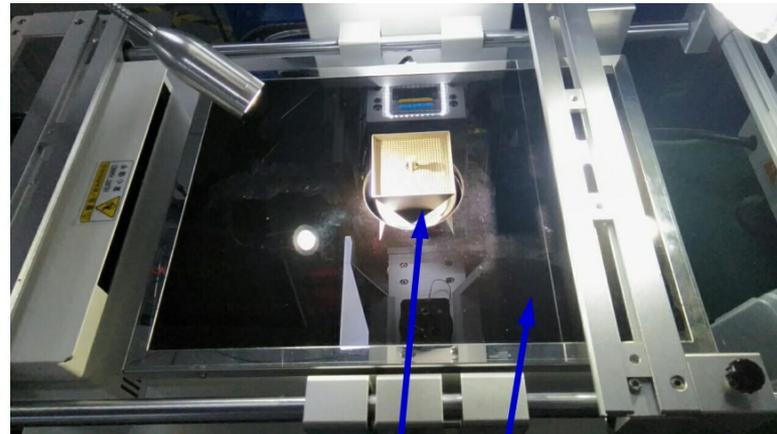
Function



- ◆ Three independent heating area, top hot air, bottom hot air and infrared heating. to avoid motherboards from deformation and bubble during uneven heat;
- ◆ To meet the need of lead and lead free high temperature welding;
- ◆ Temperature precision $\pm 1^{\circ}\text{C}$, to make sure welding success rate up to 99%.



Top hot air heater



Bottom hot air heater

infrared heater /black

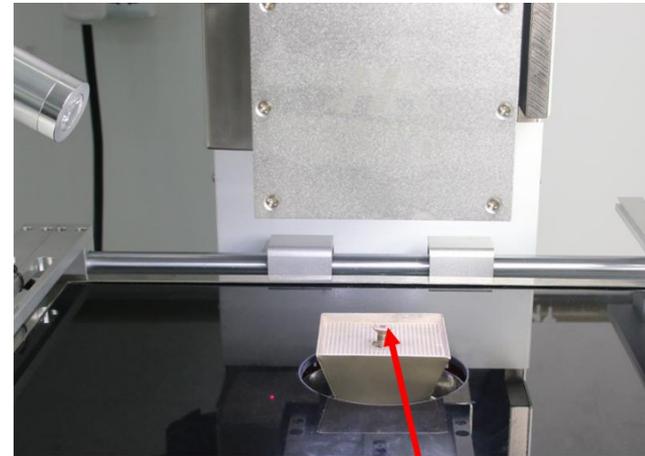
Function



- ◆ 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.



Top air flow adjustt

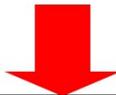
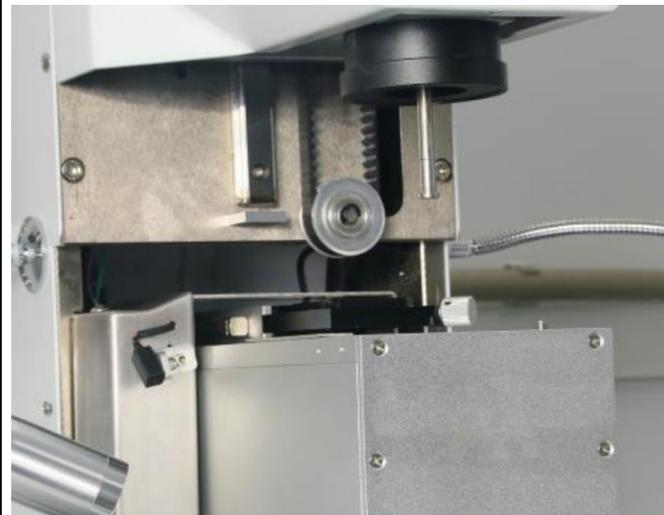


**Bottom nozzle height
Adjustable knob**

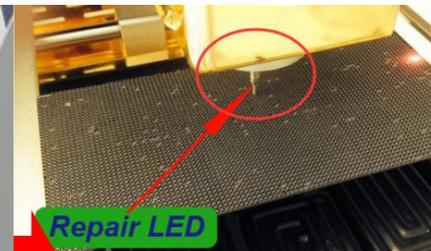
Function



- ◆ Top heating and mounting head 2 in 1, serve drive mode, automatic soldering and mounting.
- ◆ Mounting head suckers available for all kinds SMD components, to replace tiny parts
Components size 0.6*0.6~60*60MM
- ◆ For LED repair.



Top placing and mounting head

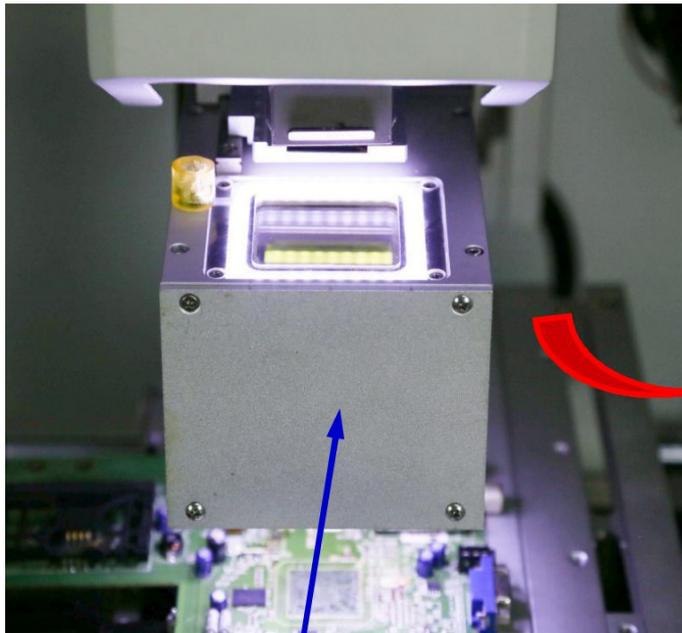


Mounting head for LED repair

Optical Alignment System



- ◆ Optical alignment system is CCD color display, image of PCB pad and BGA chip balls both shown on the high definition LCD monitor.
- ◆ Optical alignment system is power-driven to extend and retract, to avoid human force to damage after longterm use.



Optical alignment system



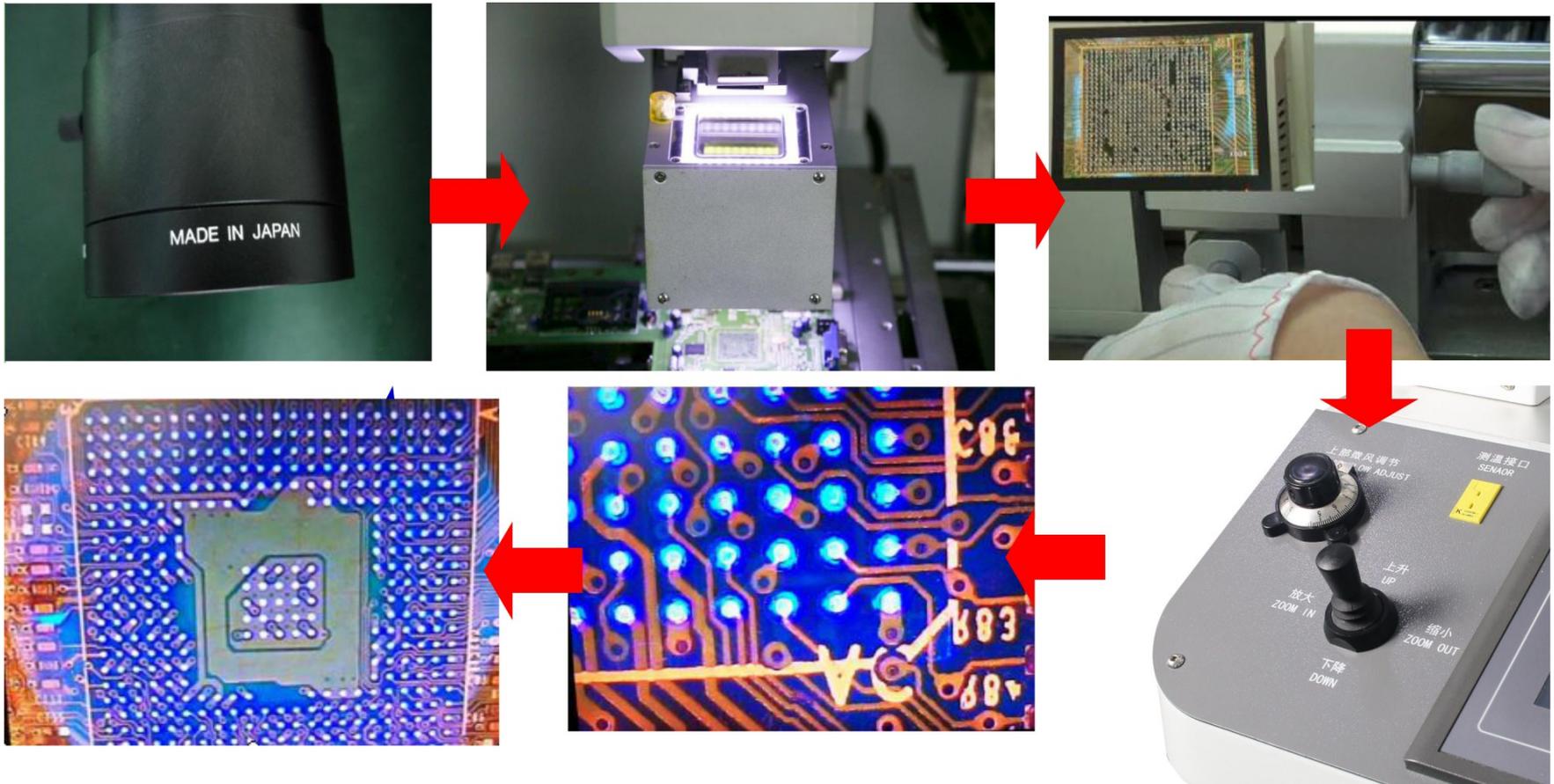
“Alignment “ power-drive button

Alignment top/bottom LED light adjust

Optical Alignment System



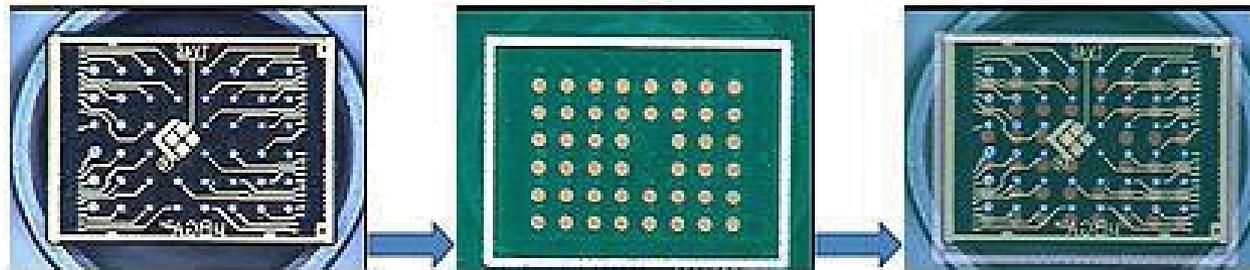
- ◆ Optical alignment system with high speed/definition video camera(Japan quality), to catch clear image of both pad and chip balls.
- ◆ Micro adjustment for BGA angle, PCB back and forth, to keep precision within 0.01mm.
- ◆ Camera auto focus, the image is 54x zoom in, to see each point clearly.



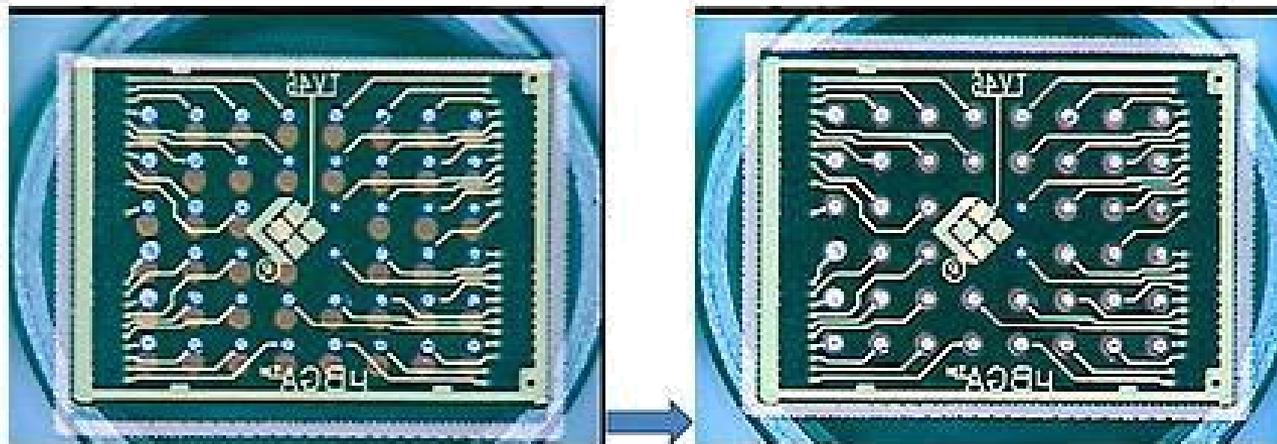
Optical Alignment System



◆ BGA balls and PCB pad imaging



Parts image+board image+both of images.

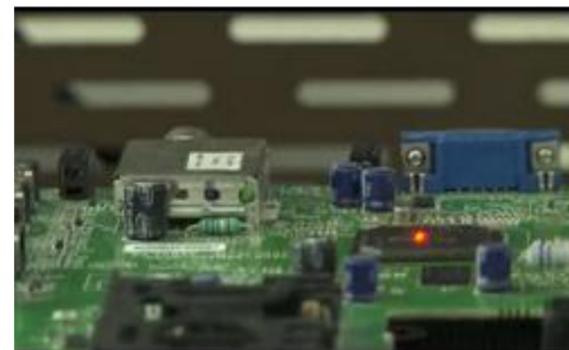
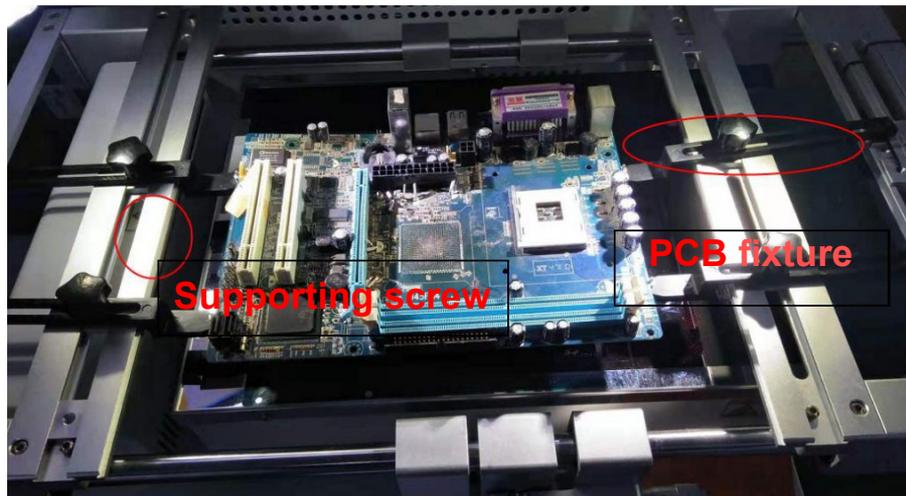


Both of image + adjust = Completion positioning.

Motherboard Support



- ◆ V-groove support for regular boards; Universal flexible PCB fixtures for any shape irregular boards.
With supporting screw, to support PCB from all aspect, avoid deformation when welding.
- ◆ For PCB size 415*370MM.
- ◆ Laser light equipped for fast PCB positioning.

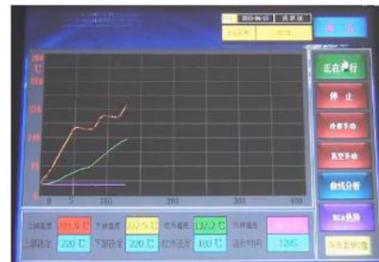
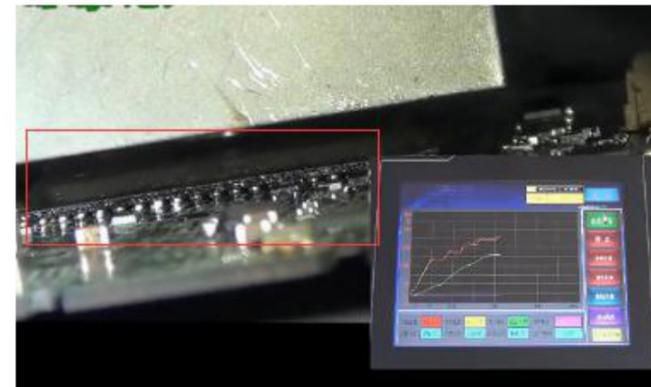


Laser red dot

Operation Interface



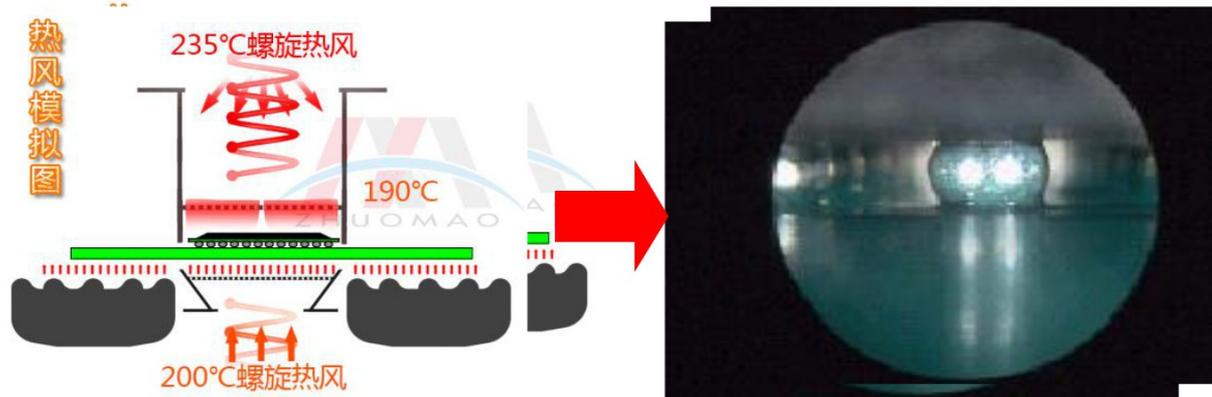
- ◆ 7 inch high definition touch screen with English and Chinese operation interface (optional).
- ◆ 8 segments setup of heating and cooling temperature, temperature curves can be downloaded or printed by USB2.0.
- ◆ 1~50 groups temperature profile can be recorded and renamed.



| 参数 | 190 | 220 | 240 | 260 | 0 | 0 | 0 |
|---------|-----|-----|-----|-----|-----|---|---|
| 190/190 | 30 | 30 | 30 | 30 | 0 | 0 | 0 |
| 190/190 | 3 | 3 | 3 | 3 | 0 | 0 | 0 |
| 190/190 | 160 | 190 | 220 | 240 | 260 | 0 | 0 |
| 190/190 | 30 | 30 | 30 | 30 | 30 | 0 | 0 |
| 190/190 | 3 | 3 | 3 | 3 | 3 | 0 | 0 |
| 190/190 | 180 | 0 | 0 | 0 | 0 | 0 | 0 |
| 190/190 | 240 | 0 | 0 | 0 | 0 | 0 | 0 |
| 190/190 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |

| 参数 | 190 | 220 | 240 | 260 |
|-----|-----|-----|-----|-----|
| 190 | 20 | 20 | 20 | 20 |
| 210 | 22 | 22 | 22 | 22 |
| 230 | 24 | 24 | 24 | 24 |
| 250 | 26 | 26 | 26 | 26 |
| 270 | 28 | 28 | 28 | 28 |
| 290 | 30 | 30 | 30 | 30 |
| 310 | 32 | 32 | 32 | 32 |
| 330 | 34 | 34 | 34 | 34 |
| 350 | 36 | 36 | 36 | 36 |

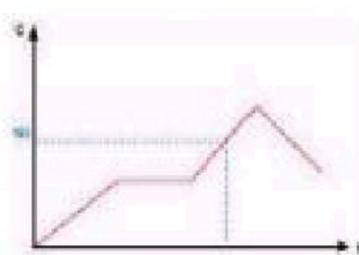
BGA Reflow



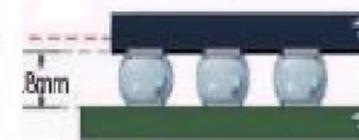
A



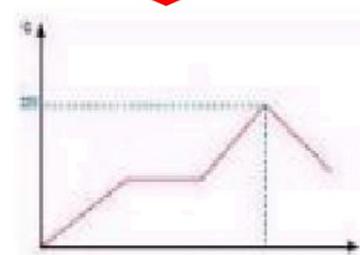
条件 A
在回流开始之前



B



条件 B
在焊料熔点



C



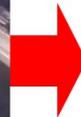
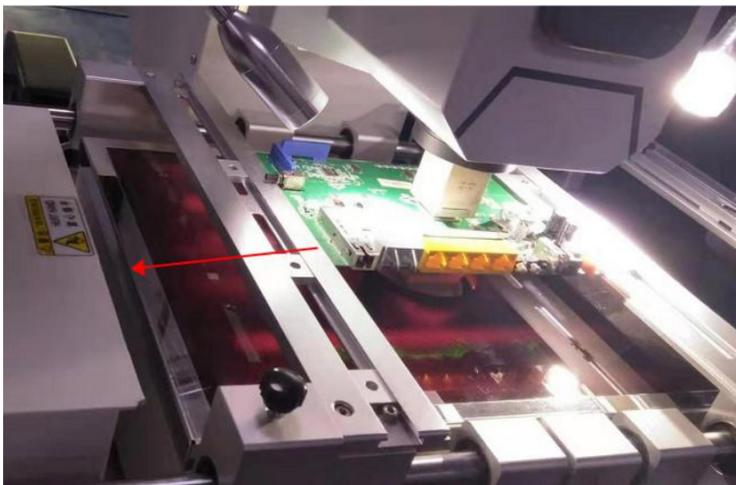
条件 C
在正常的峰值温度

Safety



◆ Powerful crossflow fan to cool the moterboards after welding.

To prevent it from deformation and bubble.



Safety

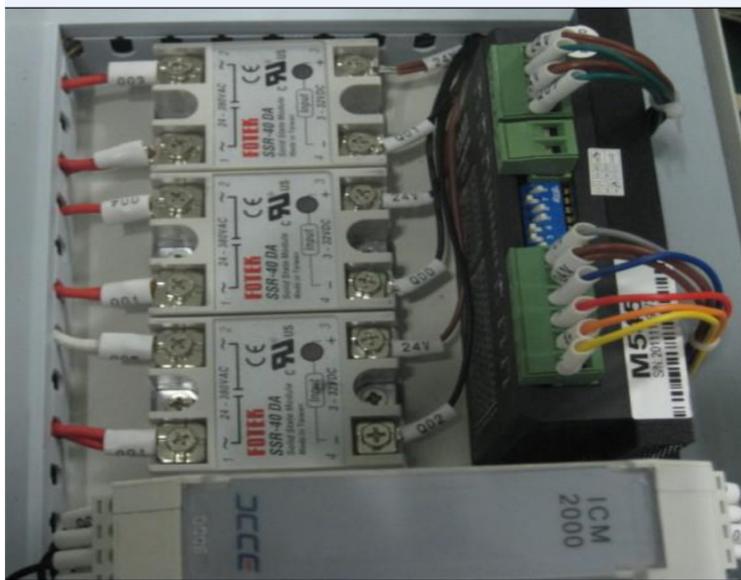


- ◆ Equipped with “emergency” stop switch, meet the international safety standards.
- ◆ Power short-circuit leakage protection switch
- ◆ A grounded port and “danger” stickers to avoid any potential human hazards.



Internal wiring

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



Component type availability

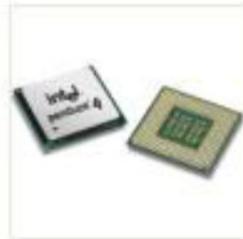


- ◆ Repair component type: BGA/QFP/QFN/CSP/SOP/LED
- ◆ Component size: 0.6 ~ 60MM

01005 components



BGA



CPU



CSP



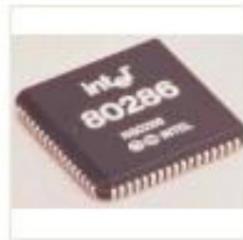
iPhone



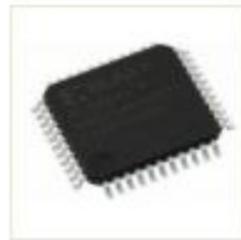
LED



PS3



QFN



QFP



VGA

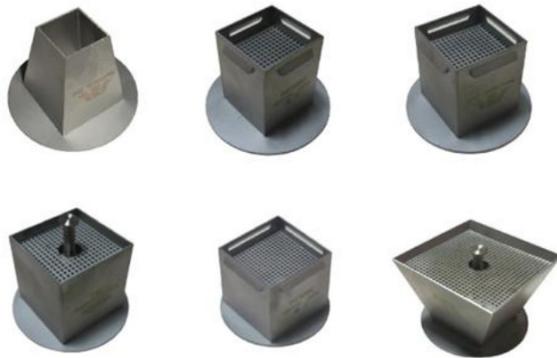


XBOX360

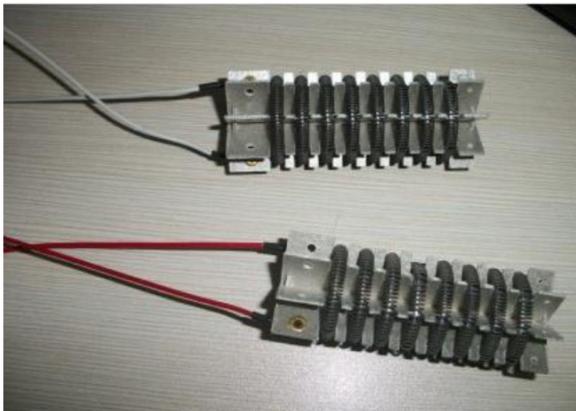
Accessories



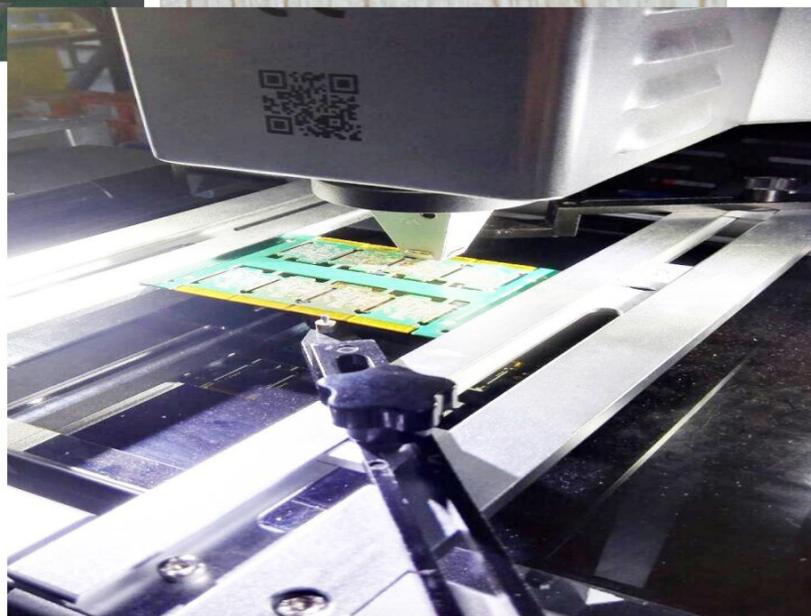
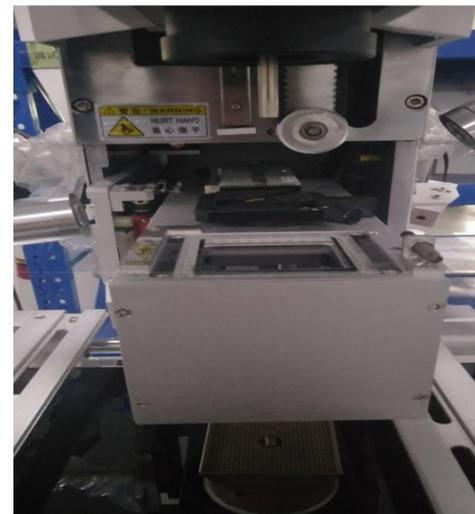
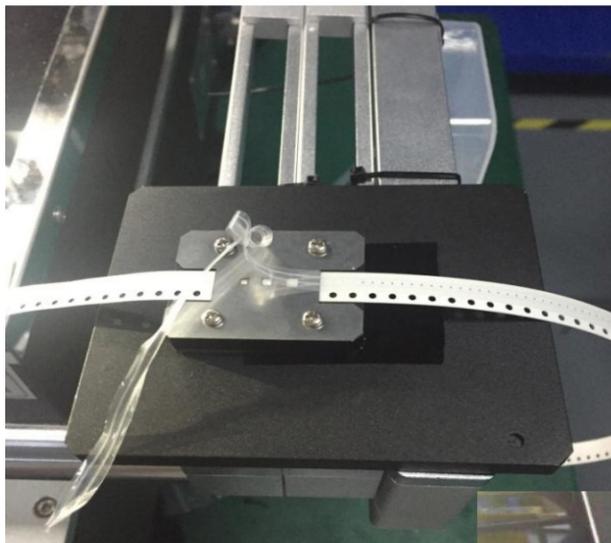
◆ Nozzle size is optional, customized service is available for any size.



◆ Spare parts: hot air heater and infrared heater



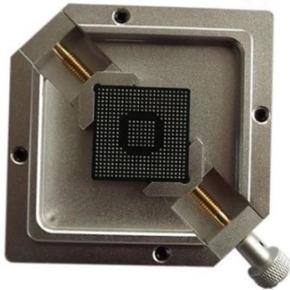
First machine for repair 01005



Reballing Accessories



◆ Reballing kit



◆ Reballing stencil



◆ Solder ball



◆ Solder flux



◆ motherboard drying oven



◆ BGA welding machine



Honored Customer



重庆航天火箭电子技术有限公司
CHONGQING HANGTIAN ROCKET ELECTRONIC TECHNOLOGY CO., LTD.

德海电子
DHET



北京神州航天电子

RealEct
西安瑞日电子发展有限公司
Xi'an Rui Ri Electronic Development Co., Ltd.

GEEPA
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CHENGDU GEETEA TECHNOLOGY CO., LTD.

.Military

重庆金美通信有限责任公司
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lenovo

DELL 戴尔

ASUS
华硕

清华同方
TSINGHUA TONGFANG

FOUNDER 方正

.Computer

SAMSUNG
三星电子

Skyworth
创维

Hisense
海信

CHANGHONG 长虹

.Television

奥拓电子

Unilumin 洲明

leyard
利亚德

LED Absen 艾比森

.LED Display

Aftersales Service Team



- ◆ The same quality, our products are cost-effective and more affordable!
- ◆ Efficient after-sales service 24hours/7days, one year warranty!
- ◆ With warranty, services and parts are free, after warranty, we only charge spare parts basic cost.
- ◆ Overseas services is available.

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8

8 Years Alibaba Gold Supplier

12

12 Years Manufacturer

40

40 R&D Engineer

400,000

Over 400,000 Global Users

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Thank you