



Seamark ZM
ZM-R730A 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.



Product Series



◆ BGA/LED Rework Station ZM-R720A



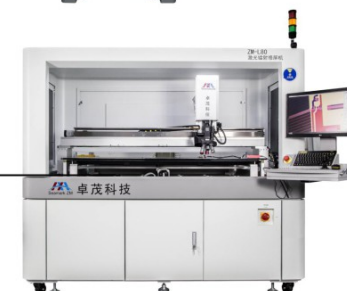
◆ Micro Focus X-Ray inspection machine X-5600



◆ X-Ray SMD parts counter X1000



◆ TV LCD laser repair machine ZM-L80



Product Presentation



Optical BGA rework station for Large size PCBA



Model: ZM-R730A

- Repair component type:
BGA/QFP/QFN/CSP/SOP/LED
- Power Supply: AC220V/380V $\pm 10\%$, 50/60Hz,
total 7500W (Max)
- **PCB size: 6*6mm-645*520mm**
- Component size: 3*3-80*80mm
- 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%+

Features of ZM-R730A---1



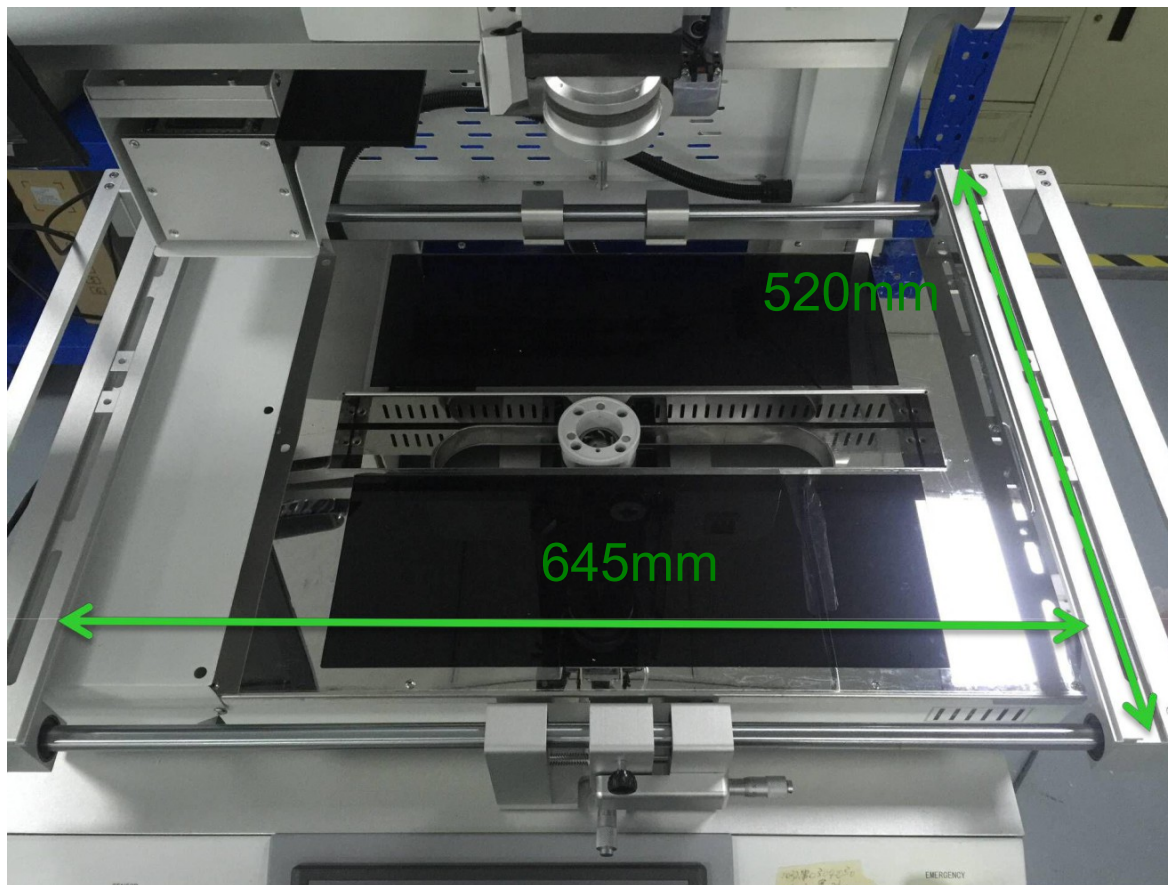
- 1) Three independent heating area: top hot air, bottom hot air and infrared heating. to avoid motherboards from deformation and bubble during uneven heat;



Features of ZM-R730A---1



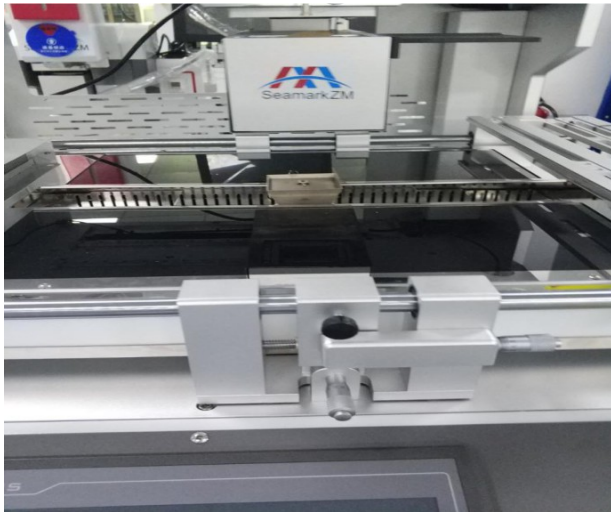
2) Large IR heating zone, specially for large size PCBA repairing; can cover 90% of PCBA at the market.



Features of ZM-R730A---1



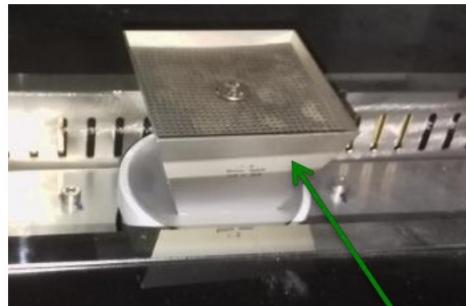
- 3) IR heater adopt carbon fiber infrared tube;it can move left and right sides, which is easy for large and irregular PCBA repairing.



Features of ZM-R730A---1



- 4) Bottom nozzle height adjust for any irregular boards with components on the back.
- 5) Separate Infrared heaters switches for different size of motherboards repairing which can save the cost of power.

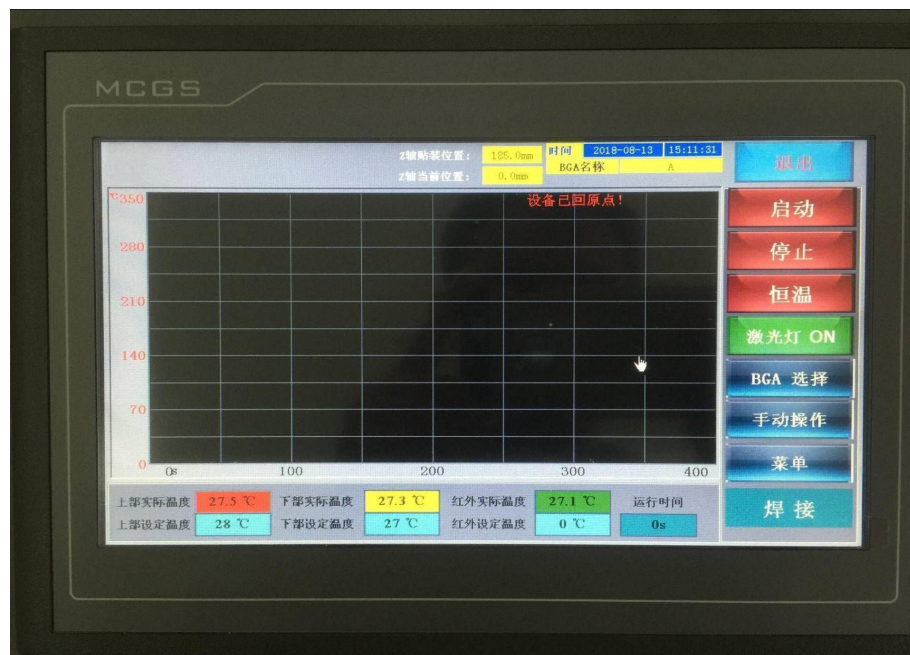


Bottom nozzle height adjustable knob

Features of ZM-R730A---2



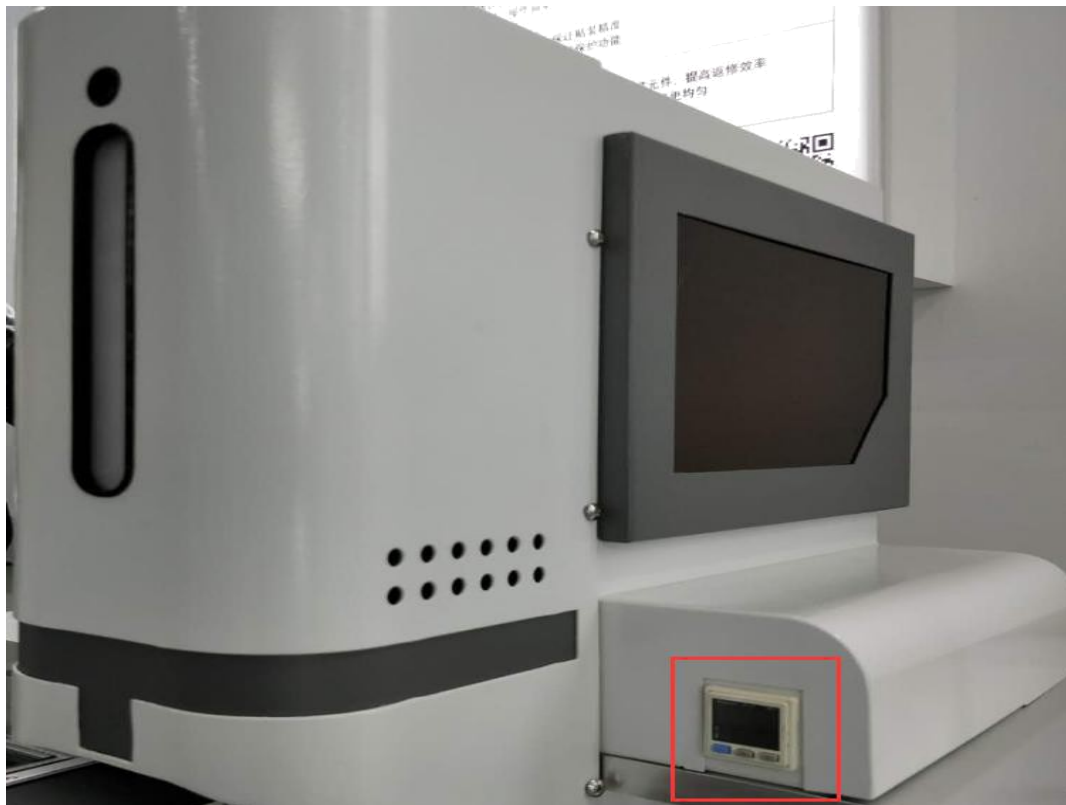
- 1) 10 inch high definition touch screen with English and Chinese operation interface, temperature and time can be freely set and modified



Features of ZM-R730A---2



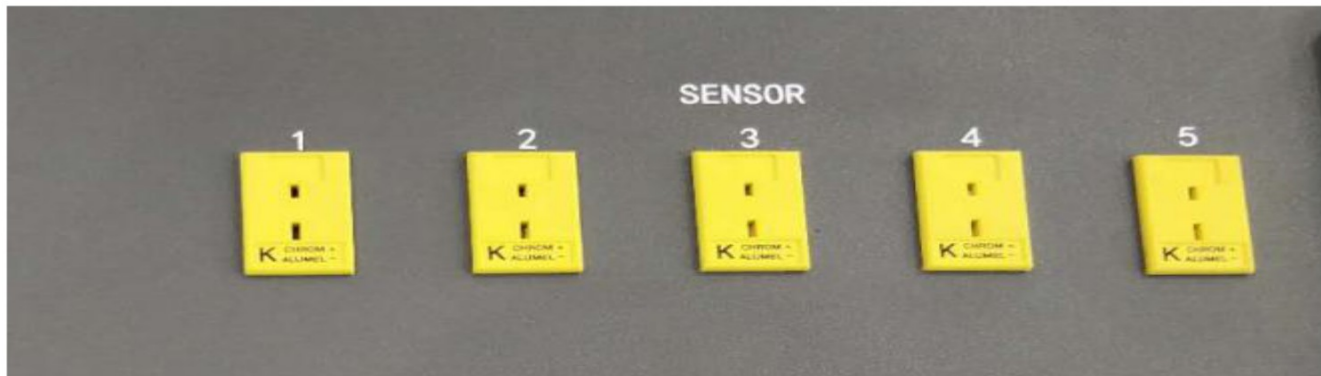
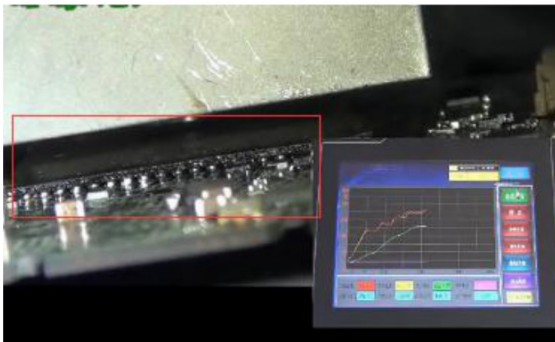
2) Equipped with pressure sensor for chip protection.



Features of ZM-R730A---2



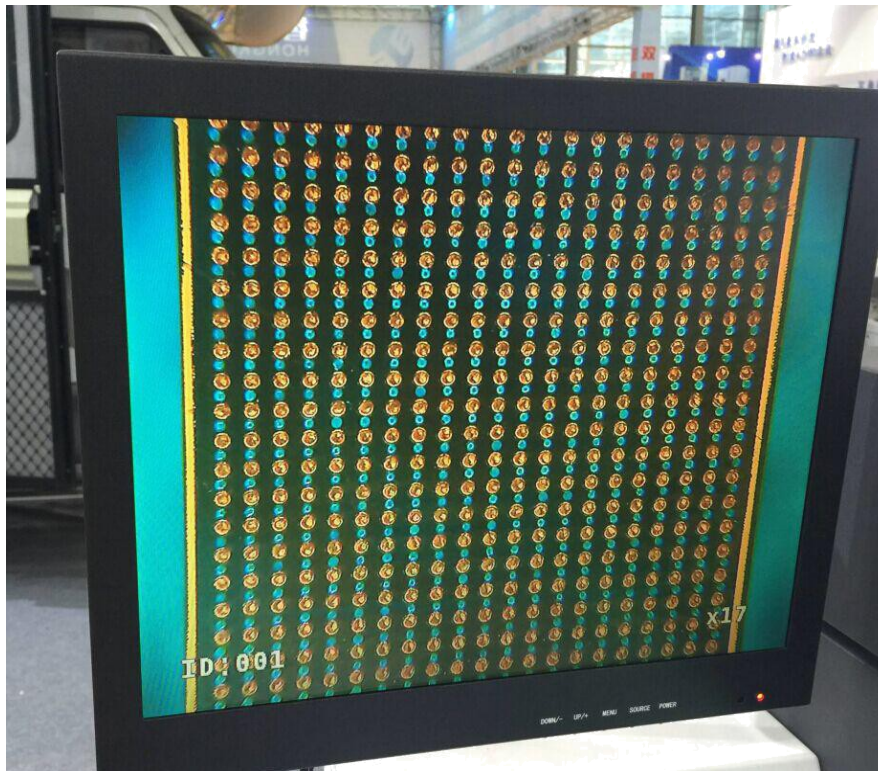
- 3) 5 external temperature sensor and 8 segments settable temperature curve for accuracy temperature control ;temperature curves can be downloaded or printed by USB2.0.
- 4) 1~100 groups temperature profile can be recorded and renamed.



Features of ZM-R730A---3



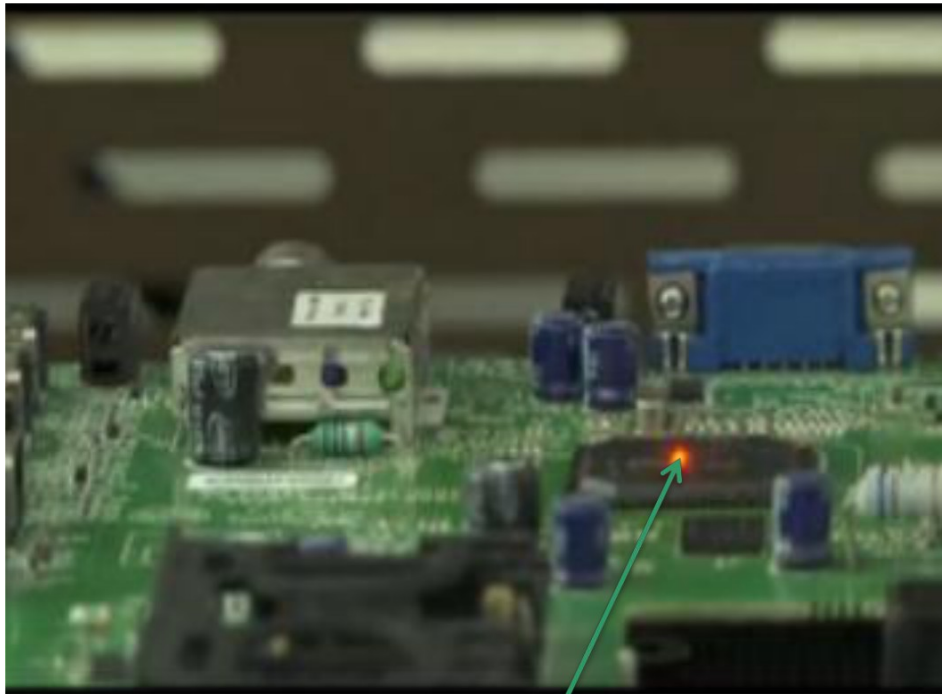
1) High-definition optical alignment system to provide clear imaging, can clearly see each alignment solder joint, to ensure alignment accuracy.



Features of ZM-R730A---3



2) Laser light equiped for fast PCB posotioning.



Laser red dot

Features of ZM-R730A---4

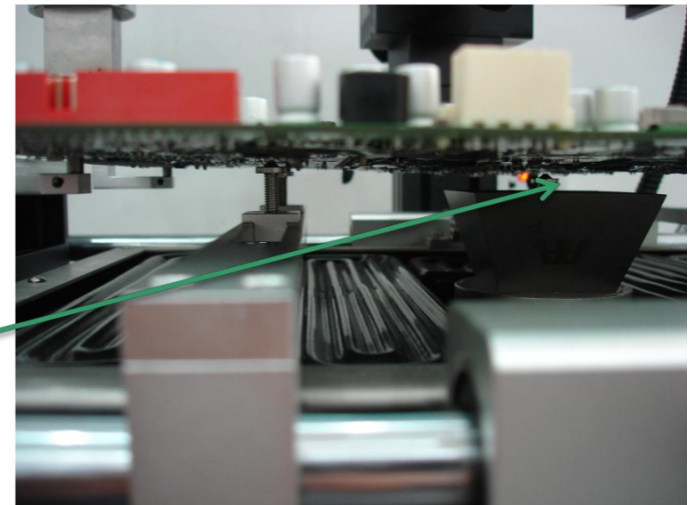


1) Use a V-groove equipped with a flexible fixture for PCB positioning ; With supporting screw, to support PCB from all aspect, avoid deformation when welding.



PCB fixture

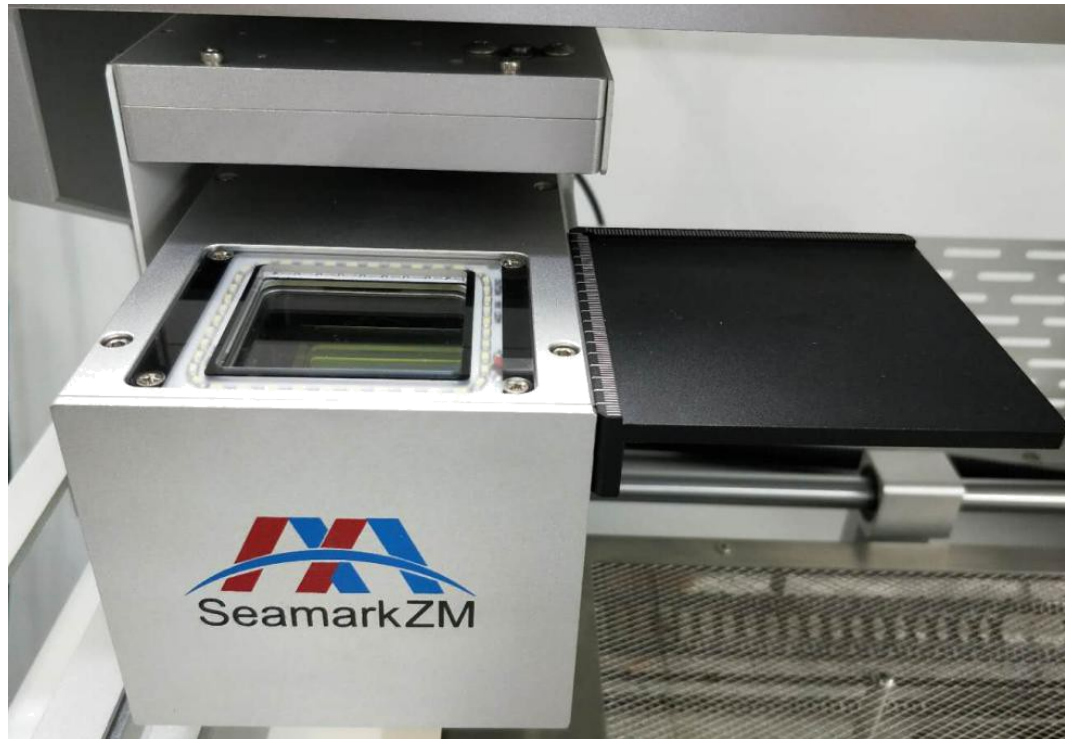
support screw



Features of ZM-R730A---5



- 1) Automatic Feeding device.
- 2) Camera come in and out automatically.



Features of ZM-R730A---6



- 1) After finishing desoldering & soldering, there is an alarming. When the temperature goes beyond control, the electric circuit can cut off automatically, with over-heating protection;
- 2) Equipped with “emergency” stop switch, meet the international safety standards.
- 3) A grounded port and “danger” stickers to avoid any potential human hazards.



Component type availability

◆ Repair component type: BGA/QFP/QFN/CSP/SOP/LED



BGA



CPU



CSP



iPhone



LED



PS3



QFN



QFP



VGA

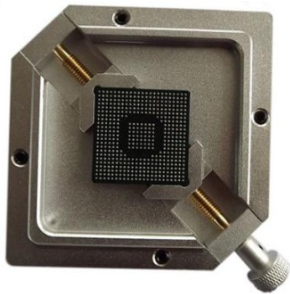


XBOX360

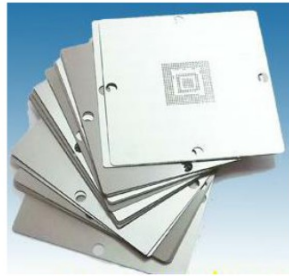
Reballing Accessories



◆ Reballing kit



◆ Reballing stencil



◆ Solder ball



◆ Solder flux



◆ BGA welding machine



◆ Motherboard Drying oven



Certificate



四川省电子学会 SMT 专委会 广东省电子学会 SMT 专委会

关于深圳市卓茂科技有限公司
“ZM-10050 10021 10030 10040 10050” 的专家评审意见

深圳市卓茂科技有限公司 (SMT) 是一家专业从事 SMT 设备研发、生产和销售的高新技术企业。其产品广泛应用于电子制造行业，具有较高的市场占有率和知名度。本次专家评审主要针对其研发的“ZM-10050 10021 10030 10040 10050”系列设备进行。经专家评审组认真审阅相关资料，并结合现场考察，一致认为该系列产品在技术性能、产品质量、售后服务等方面均达到了国内领先水平，具有较高的市场竞争力。建议该企业在后续研发和生产过程中，继续保持技术创新，提升产品质量，以满足市场需求。

1. ZM-10050 系列设备采用了先进的 SMT 技术，具有较高的生产效率和稳定性，能够满足大规模生产的需求。
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Honored Customer



深 圳 市 卓 茂 科 技 有 限 公 司



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

Thank you