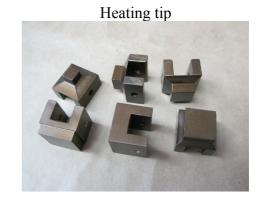
BGA Remover for Smartphone, Automotive navigation system and Tablet PC. Do you have a hard time by the removal of BGA with underfill?







BGA Remover Model:BR-515

BR-515 is an exclusive device removing BGA from PCB of a Smartphone, Aoutmotive navigation system and Tablet PCs. This device removes BGA which applied underfill material easily in 20-80 seconds. And positioning of PCB is very simple, too. Accordingly 1/3-1/10 can shorten work time than the BGA removal by Rework stations. And repair yield improves very much.

Features

- BR-515 removes BGA with underfill from PCB in 20-80 seconds.
- This device is overheated with a heating tip directly from the BGA upper part.
- This device fits strongest epoxy underfill material.
- This device removes BGA from PCB before underfill material does curing by a short time heating.
- Only BGA heats directly, and this device does not heat an adjacent part. And PCB bottom heater is unnecessary.
- Positioning of PCB is very simple.
 - ① Do Setting PCB to a work holder.
 - ② Do positioning of BGA to a bottom of a heating tip.
 - 3 Do fixing a work holder with an electromagnet.
- BR-515 is equipped with Thermo-profiler of 3ch. This Thermo-profiler measures heating temperature and time of BGA. Then this Thermo-profiler operates independently.

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Specifications

• Applicable BGA: 7mm×7mm - 20mm×20mm

: Normal work holder : 30×30mm - 170×105mm t : 0.4 - 1.2mm • PCB

Optional work holder: $50 \times 50 \text{mm} - 220 \times 160 \text{mm}$ t: 0.4 - 1.6 mm

• Heating temperature: Heating bar: 300 - 440°C (Heating tip: 280 - 420°C) PID Control.

: 0.1 - 999.9sec (Timer) • Heating time : Auto

Manual: START - RESET (Free)

• Heating tip : Aluminum (5052) + Dioxide Molybdenum coating (Hard lubrication coating)

> Normal accessories (3pcs): 7mm×7mm, 12mm×12mm, 18mm×18mm : 8mm×8mm, 10mm×10mm, 15mm×15mm, Optional tip

> > 20mm×20mm, Special order tip.

• Tip contact pressure : About300g, Pressure adjustment : +5 steps /-2 steps, 0.5mm step.

Height of a heating tip: +2.5mm (5 steps) / -1.0mm (2 steps)

: Take down a heating tip to an around on BGA. Positioning

And match a position with BGA.

 Work holder : Normal work holder $(W)200 \text{mm} \times (D)125 \text{mm} \times (H)21 \text{mm}$ 600g

> Optional work holder $: (W)240mm \times (D)180mm \times (H)21mm$ 1050g PCB lower part support: Silicon sponge, attachment t=8mm/10mm

> > (consumption articles)

Positioning : Free (X - Y)

Fixation : Electromagnetic lock

• Thermo-profiler: 3ch, Software attachment. (PC is not attached.)

: Single-phase, AC100V 260W / AC220V 260W • Power supply

• External dimensions / Weight : (W)260×(D)370×(H)360mm, 13kg

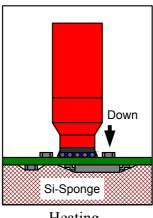
Applications

- Work to remove BGA in PCB repair of Smartphone, Automotive navigation system, Tablet PC.
- Removal work of BGA which applied underfill material from PCB.

Heating method

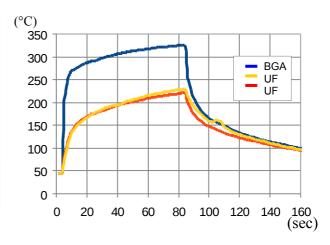
Heating tip **BGA** Si-Sponge





Heating

Temperature profile



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Work procedure

- ① Set a heating tip of size the same as BGA.
- ② Set PCB to a work holder.
- ③ DOWN Take down a heating bar in a positioning level.
- (4) Move a work holder and match a position of a heating tip with BGA. And |LOCK| it.

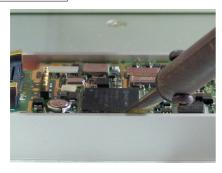


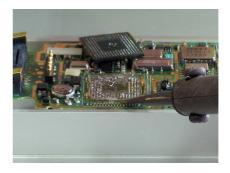
- ⑤ Set heating temperature (300-440°C) and time (20-80sec). (Measure a temperature profile and confirm it.)
- (6) AUTO START A heating bar goes down and heats BGA directly from the upper part.



① Then a buzzer sounds, and a heating bar rises time-up. And remove BGA with a spatula (a heating spatula).

MANUAL: A heating bar rises in RESET.





Movie

Look from our Web. http://www.jpl.com/products/smt/asx/BR-515.asx

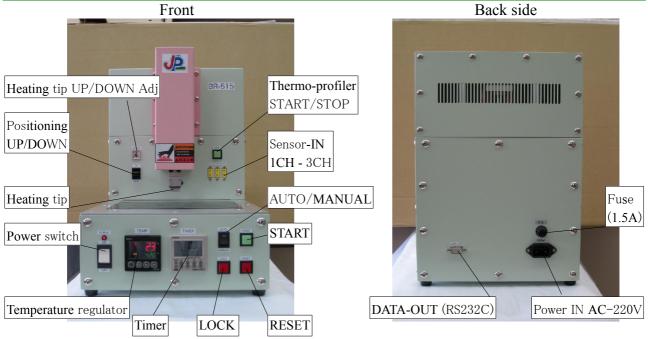
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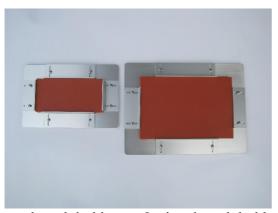
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Main body and Accessories **Optional parts** $8\text{mm} \times 8\text{mm}$ ① Main body ① Heating tip 1 set ② Heating tip $7 \text{mm} \times 7 \text{mm}$ 1 pc ② Heating tip 10mm × 10mm 3 Heating tip 12mm × 12mm 1 pc 3 Heating tip 15mm × 15mm 4 Heating tip 18mm × 18mm Heating tip 20mm × 20mm 1 pc ⑤ Normal work holder (with sponge) 1 pc S Heating tip Special order © Optional work holder (with si-sponge) © Sensor K 0.127mmp 3 pcs Xapton tape ② Si-sponge 130mm × 65mm 8t/10t/12t1 pc ® USB (RS-232C conversion) cable 1 pc ® Si-sponge 180mm × 120mm 8t/10t/12t1 pc

Name of each department

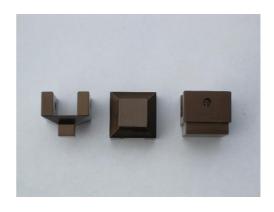


Work holder



Normal work holder Optional work holder

Heating tip



7×7mm 12×12mm 18×18mm

*Specifications subject to change without notice.