Multiple Re-Balling Tool Rebcom Model RBC-1 & RBC-100

MSC

Main Features:

• To CSP or BGA, a solder ball can be mounted easily, with mechanicale- autocentering unit. Even when it is square, a rectangle is also.

- Re-balling of the package from 3 to 50mm (RBC-1) & 3 to 100mm (RBC-100)
- Solder ball's mounting, and printing of solder are also possible.
- If an optional tool is added, the re-balling of micro ball such as 200μmmΦ is also possible.

• Air is required even though the power supply of RBC-1 is unnecessary. The special air compressor can also be arranged.



RBC-1

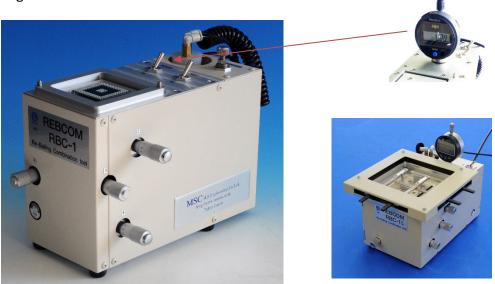


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RBC-100

MSC MS Engineering Co Ltd http://www.mseng.co.jp MEISHO Group

RBC-1(Ver-2.0) & RBC-100: Multiple Re-Balling Tools. Catalogue (Ver.5.0e)



RBC-1

RBC-100

Overview

RBC-1 is a tool which mounts a solder ball in packages, such as almost all kinds of CSP, and BGA, easily and exactly.

The tool is power supply needlessness and the metal mask for mounting of a ball and the metal mask for printing of solder are arranged.

It is a special mechanically centering unit with a patent, and positioning of a package is quickly and correctly.

Tools are X ,Y, θ and also Z(height) can tune finely with a micro gauge. For that reason, even a micro ball can be mounted exactly.

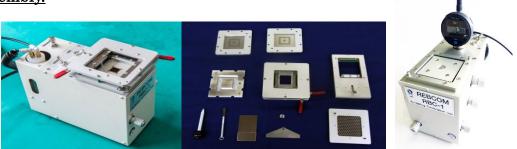
Main Features;

- Re-Balling of the package from 3 to 50 mm \Box is possible.
- Re Balling of the package from 3 to 100 mm is also possible by RBC-100.
- Of course, it can use for printing of solder.
- It Attachment and detachment of a mask are easy for the frame of a special metal mask. For that reason, the re-balling of many kinds of BGA is possible.
- Anyone with easy operation can do work safely. Because all of it are manual mechanisms.



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Assembly.



RBC-1 has 12 kinds of the parts as the picture of right-side and a dial-gage. And a main body is with a ball storage bottle and an air tube in a left picture. However, the metal mask is an additional article.

Outline of Operation.



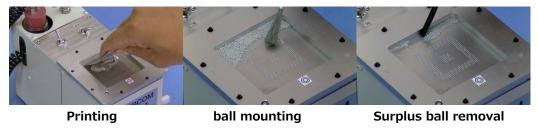
Setup for BGA \Rightarrow Centering by the lever \Rightarrow Setup for metal mask Dial Gage for Z If BGA is put on the table of RBC-1 and the lever of a centering tool is closed, centering of the position of BGA will be made automatically. (A mechanically centering mechanism is our patent) The dial gage informs Z of the table correctly.



Fine-adjust by micro-adjustor of X,Y,Z and θ

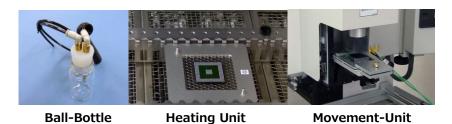
Metal-mask Holder

If the check of positioning is necessary, it can check with a magnifying glass. Fine adjustment of X, Y, Z, and theta is possible. Exchange of a metal mask is easy for many kind of BGA.



It prints with the squeegee. The balls are mounted with the electrification prevention brush. And sucked solder ball is stored in a bottle.

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The package in which the ball was mounted heats and is completion.

Main Specification; (The specifications are subject to change without notice)

Components:	BGA/CSP/LGA/QFN/LLP/POP \Box 3 to \Box 50mm Rectangle is possible.
(RBC-100)	BGA/CSP/LGA/QFN/LLP/POP $\Box 3$ to $\Box 100$ mm Rectangle is possible
Ball Size:	0.25 to $0.76\Phi\mathrm{mm}$ or more (Micro BGA is possible with optional unit RBC-1B)
Table Adjuster:	$X,Y,Z = \ge 0.01 \text{mm}$ $\theta = \le 3^{\circ}$
Size:(weight):	250D x 130Wx165Hmm (3Kgs approx.)
(RBC-100)	280D x 160W x 230Hmm (3.5Kg approx.)
Air Required:	0.15 to 0.8 Mpa

RBC-100

Optional Accessories;

