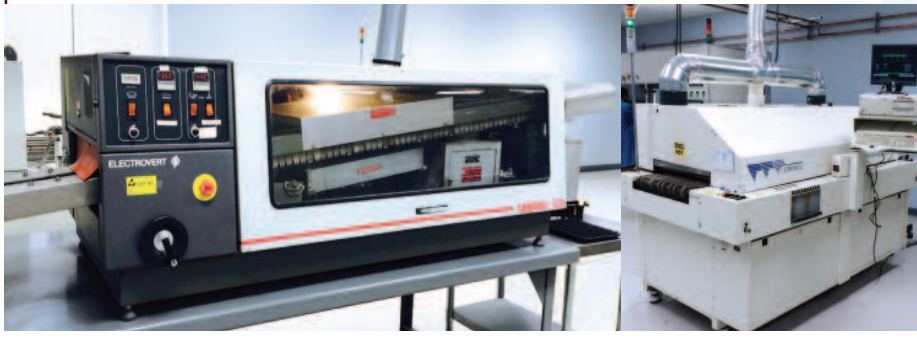


BGA Reballing



*Conversion to leaded spheres
for Hi-Rel applications.*

LOW-COST, QUICK-TURN
LOW & HIGH VOLUME
PROCESSES

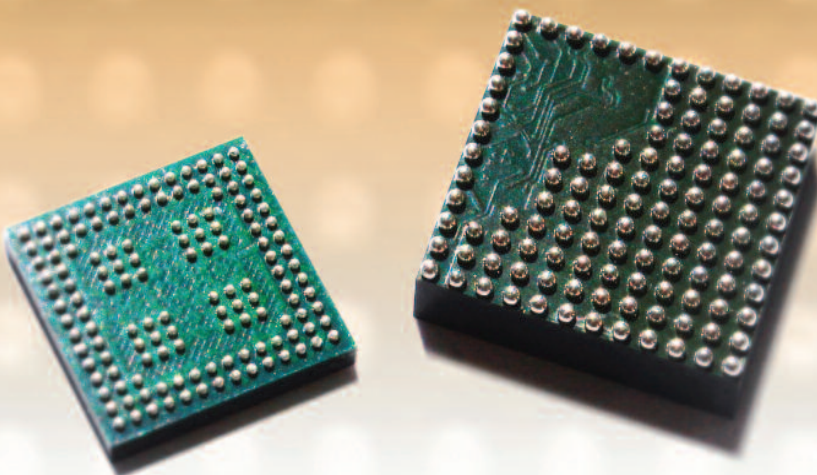
SINGLE REFLOW
REBALLING
MINIMIZES HEAT EXPOSURE

TURNKEY
PRODUCT PURCHASING

*PROCESSING OF
CERAMIC AND PLASTIC
BGAs AND LGAs*

BALL PITCH FROM 0.40mm

Pb-FREE ↔ Sn/Pb BALLS





Microcross Component Modifications: BGA Reballing

LOW & HIGH VOLUME PROCESSES

For lower volume requirements, Microcross offers a unique process that does not require the use of preforms and eliminates the need for custom tooling for most components. Benefits include shortened lead times, reduced total cost, and no NREs.

DEBALL

Our proprietary automated wave solder deball process completely removes the original solder sphere and pad finish. For an ultra-controlled, non-contact deball process, our exclusive Microcross Robotic Hot Solder Dip equipment can also be used.

ELECTRICAL TESTING

Static electrical testing is available post-process to ensure there are no internal component issues or gross/latent ESD damage. Tests include detection of I/O diode opens/shorts and confirmation that Power and GND consumption are within limits.

INSPECTING/TESTING

- Optical inspection for sphere condition
- Automated inspection for sphere size and placement
- Ball shear
- XRF
- Ionic cleanliness
- Solderability

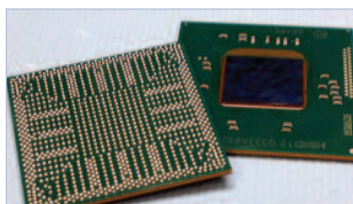
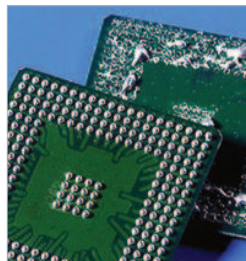
INVENTORY MANAGEMENT

Fully automated in house EDI, inventory management system with procurement and consignment capabilities.

FACILITIES

- ISO9001 and AS9100 registered
- ESD-safe environment compliant to JESD625B
- Temperature and humidity controls

Before and After BGA Reballing



OTHER SERVICES

- Robotic Hot Solder Dip Lead Conversion (Pb-free ↔ Sn/Pb)
- Lead attach
- Lead trim & form
- Lead alignment
- Tape & reel, 3D component scan
- Dry-bake

Automatic Inspection



XRF

Robotic Deballing

For more information visit www.microcross.com or contact our sales department at Microcross Components, 11-16 Atech Court, Lancasterfields, Crewe, Cheshire CW1 6FF
T: +44 (0)1270 252566
E: sales@microcross.com

MICROSS COMPONENTS OFFERS A WEALTH OF EXPERTISE IN DESIGN, PROCESSING AND PRODUCTION OF SEMICONDUCTORS, AND OTHER ELECTRO-MECHANICAL COMPONENTS WITH THE HIGHEST DEGREE OF QUALITY, HI-RELIABILITY AND PERFORMANCE.



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