



**Electronic Manufacturing
Solutions**

EMS Capabilities - BGA

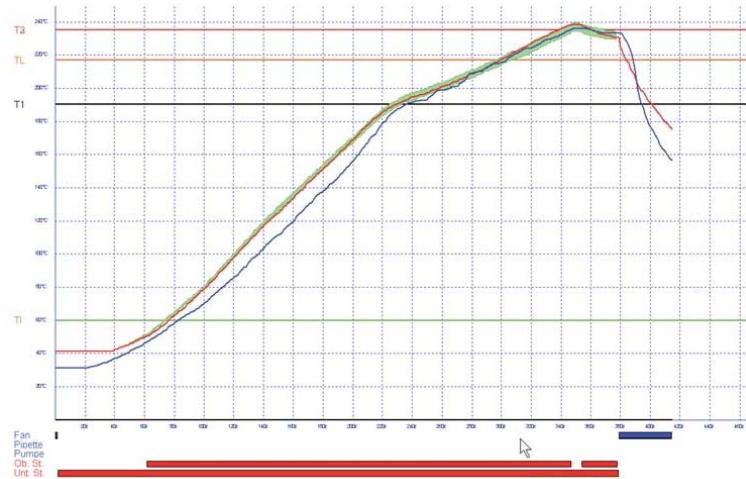
- BGA assembly utilising the ERSA IR/PL 550. This offline station provides maximum flexibility for a large range of devices.
- Reflow / re-work capability;
 - BGA, Micro-BGA, Micro-FCBGA
 - QFN
 - CSP
 - CGA
 - PGA
 - Large SMD & PTH connectors



ERSA IR/PL 550 BGA station

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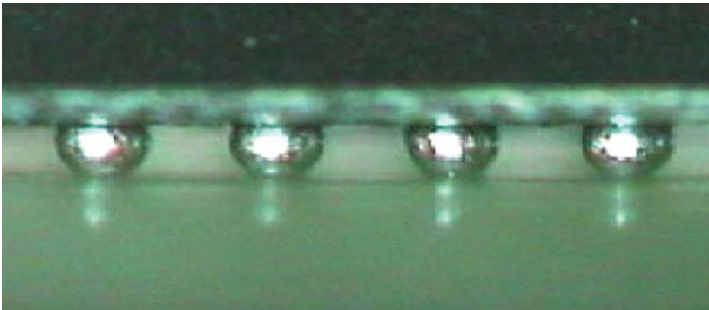
- The components are re-flowed via a localised focused infra-red system.
- Operating software linked via thermocouples to the reflow area, this provides a real time reflow profile to the operator.



ERSA IR/PL 550 reflow profile

EMS Capabilities - BGA

- The integrated camera module of the ERSA IR/PL 550 provides a real time view of the component during reflow and post inspection capability.



BGA – pre-reflow

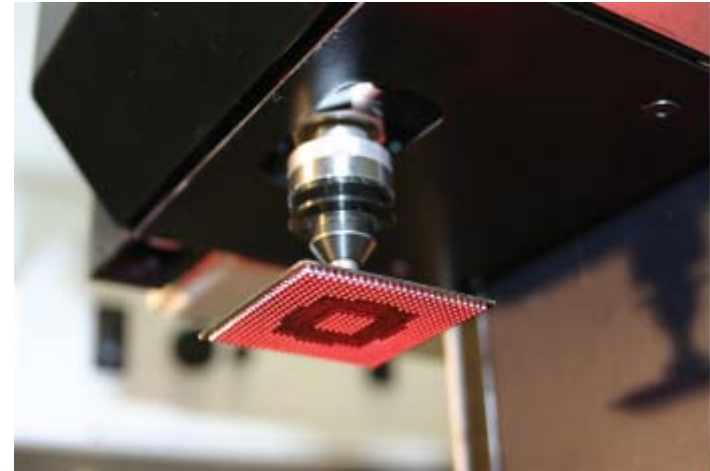


BGA – during reflow

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ERSA IR/PL 550 – placement head in the foreground. With a view of the software controlled alignment in the background



ERSA IR/PL 550 – close up view of the placement head.