

Turning old into new

Using the MINIOVEN 05 for BGA reballing!

Wessling, July 2015. Reballing valuable BGA modules becomes increasingly important. For many years now, BGA modules are successfully reballed using the flexible MINIOVEN desktop devices by MARTIN. After reballing, they are soldered back onto the electronic assembly in high quality, a process according to common IPC regulations permitted even for particularly sensitive fields of application (industry, medicine, aeronautics). Furthermore, the MINIOVEN is capable of solder deposits on ICs in QFN format. Both methods represent the core applications of the MINIOVEN, now available with more performance features and expanded range of functions

Reballing at the highest level

MARTIN GmbH hereby introduces the revised MINIOVEN 05 with improved hybrid heating technology.

In the updated version of the device preheated air is fed into the processing chamber, thereby contributing to a faster and very homogenous heating of the electronic component. The advanced electronic heating allows accurate control of the temperatures in particular in the peak area. Also, the cooling process was improved as the internal case fan generates a higher airflow rate and thereby, cools down the component temperature much faster and at the same time reduces the total process time.

Furthermore, numerous minor technical innovations found their way into the device resulting in increased performance and operating comfort: an additional thermal sensor can be connected to the device, for example. It is used for monitoring the temperature of the component during the automatic profile creation and for optimum profile parameter configuration. The introduction of a new process technology and additional profile parameters (soak phase) lead to improved temperature stability in repeated heating processes.

The PC software EASBEAM V2 enables easy editing of all profile parameters. In conjunction with the HOTBEAM bottom heater, EASYBEAM V2 has already been successfully introduced. It offers, also for the MINIOVEN 05, the possibility of temperature profile indication and data record saving on a computer.

A large display and a completely redesigned menu navigation enable the user to use the device quickly and intuitively.



Reballer MINIOVEN 05