

# BGA/QFP Rework

## Weller WQB Repair System

**NEW**

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The WQB 4000 SOPS repair system upgrades the Weller product range in the SMD tool sector. A well thought-out design concept combines reliability and maximum process control with ease of use and technically mature detail solutions. Usefull accessories increase the possible uses of these repair work stations. For the universal circuit board repair of BGA, QFP and SMD components, it is necessary to preheat the circuit board effectively from below and from above to precisely heat the components to be repaired to the reflow temperature as well as to reliably control the process. On the WQB 4000 the temperature regulated 2-Zone infrared bottom heater provides rapid warm-up and homogeneous substrate temperatures. The hot air top heater, with digital control electronics for temperature monitoring and regulation of the air flow rate, facilitates the finely metered supply of heat to the components. A temperature sensor placed directly in the hot air nozzle efficiently regulates the top heater and thus provides maximum process control. On the digital programming unit all process steps can be programmed, saved and if necessary protected against unauthorized use as required. The most important process parameters are optionally displayed on the LC display during operation. Camera with two-color lighting for exact positioning.

Order No.	Model	Description
005 33 516 99	WQB 4000SOPS	<b>BGA/SMT Rework system 2300 W / 230 V, for component placement with camera guided positioning system</b> At the heart of the placing system is the modern USB colour camera with fully digital data transfer. The data transfer from the camera to the PC is made in real time via the IEEE 1394a interface. The telecentric precision split optic produces an image of the component to be placed free of perspective distortion and has a wide depth of focus. The included positioning software contains a component library, from which the component to be placed is selected. New components can be edited very easily by the user and added to the library. Using the built-in positioning frame in the live image from the camera, the circuit board and the component can be aligned independently of each other using the X,Y and Theta axis fine adjustment drives.



consists of:

- Base unit with top heater, bottom heater, control electronics and pneumatic unit
- Infrared radiation 1600 W
- Positioning unit with digital camera and split optic
- Circuit board holder with fine adjustment in X and Y direction
- Temperature sensor PT 100
- Nozzle change tool
- Thermoelement type K 0,1 mm
- 5 pcs. Vacuum inserts Ø 4,5 mm
- 5 pcs. Vacuum inserts Ø 10,0 mm
- Reducer insert for the vacuum pickup
- Software WQB 4000 CONTROL and WQB 4000 SOPS
- Serial interface cable
- Calibration tool
- Vacuum pick up with 2 changeable vacuum inserts
- Mains cable
- 2 m connecting tube for compressed air
- Instruction manual