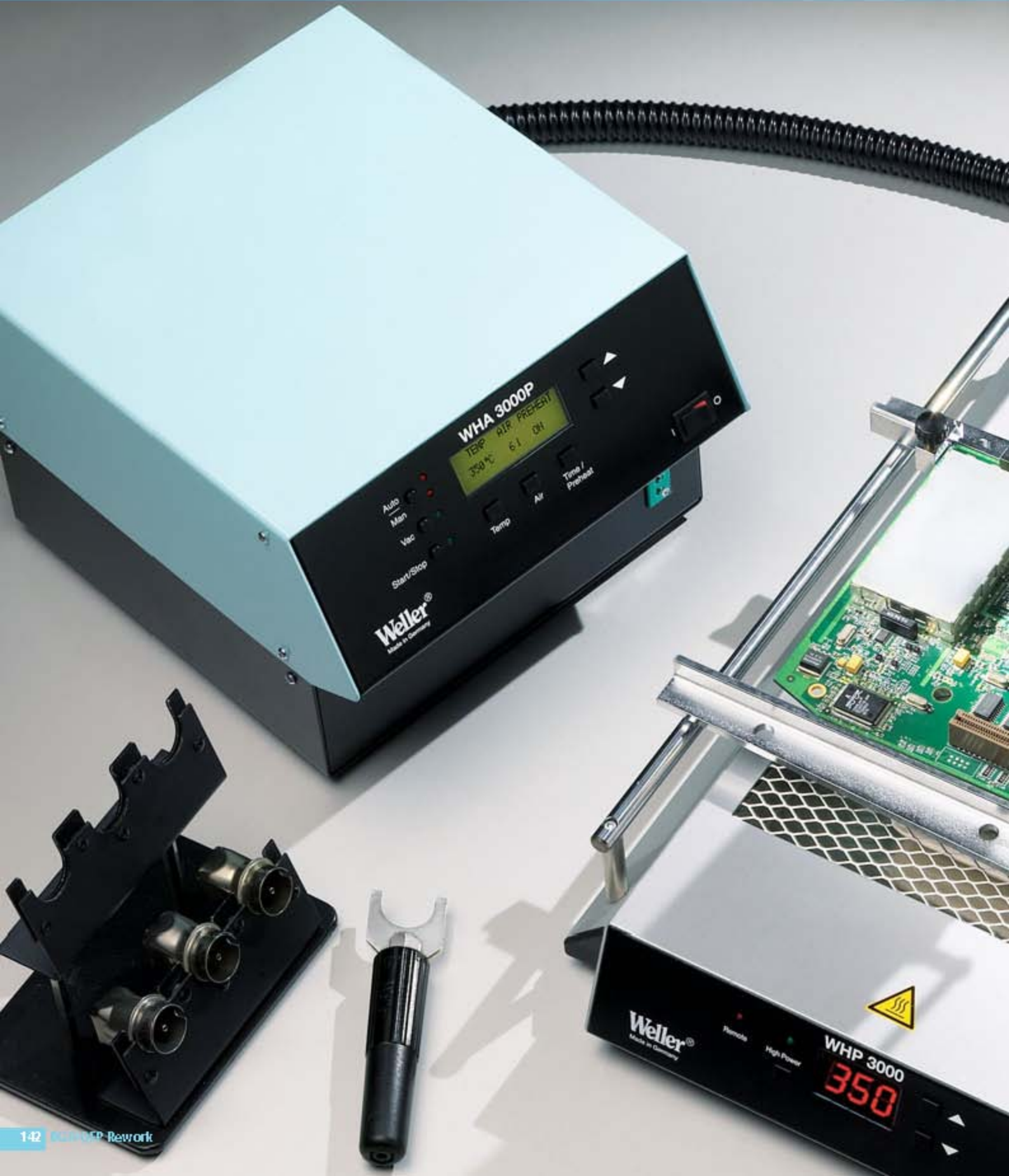


# BGA/QFP Rework





## WHA 3000 Set – The versatile system for demanding work

### WHA 3000P

- 700 W hot air station with patented Weller nozzle technology for maximum process control and user friendly operation. The powerful variable speed controlled turbine generates an air volume of up to 50 litres/min. An ion trap ensures charge free hot air flow. Memory space to store up to 10 thermal profiles to ensure process repeatability. Operation via PC software. Program preparation with TEACH-IN modus.

Alternatively: WHA 3000 V  
700 W hot air station for operation with external compressed air or inert gas supply.

### WBHS

- Circuit board holder with a stand for the HAP 3000 hot air pencil. Circuit boards up to 310 mm x 320 mm can be accommodated. The circuit board holder ensures that the hot air pencil is vertical to the printed circuit board under repair and the pivoting stand allows the HAP 3000 hot air pencil to be raised and lowered precisely onto the component being reworked.

### WHP 3000

- Infrared Heating plate, total heated area 120 mm x 190 mm with 3 ceramic elements. The plate is used to preheat the circuit board under repair; to improve soldering performance. The hot plate can be controlled from its own internal control system or integrated into the control system of the WHA 3000P/V. When used with the WHA 3000P/V the hot plate hits beneath the WBH/WBHS board holder.

# BGA/QFP Rework

## **WHA 3000PS Set – The versatile system for repair and rework of fine pitch and BGA components**

The WHA 3000P will perform demanding repair tasks on circuit boards with complex fine pitch surface mounted components. The advanced control technology coupled with user-friendly operation, guarantees precision of repair processes. While the sophisticated automatic operation mode guarantees repeatability of the process and increases productivity and quality. Extensive range accessories compliment the machine to promote flexibility.

### **WHA 3000PS Set**



Order No.	Model	Description
005 33 556 99 *	WHA 3000PS	<b>Scope of delivery WHA 3000PS Set:</b> <ul style="list-style-type: none"><li>• WHA 3000P hot air station, 700 Watt with built in pump</li><li>• WBHS circuit board holder with pivoting stand</li><li>• WHP 3000 Heating plate, 600 W</li></ul>

Order No.	Model	Description
005 33 346 99 *	WHA 3000P	<b>Hot air station 700 W</b> with patented Weller nozzle technology for maximum process control and user friendly operation. The powerful variable speed controlled turbine generates an air volume of upto 50 litres/min. An ion trap so that charge free hot air is directed at the component. Memory space to store upto 10 thermal profiles to ensure process repeatability. Manual operation or operation via PC software.



Order No.	Model	Description
005 33 165 99	WBHS	<b>Circuit board holder</b> with a pivoting stand for the HAP 3000 hot air pencil. Circuit boards upto 310 mm x 320 mm can be accommodated. The circuit board holder ensures that the hot air pencil is vertical to the printed circuit board under repair and the pivoting stand allows the HAP 3000 hot air pencil to be raised and lowered precisely onto the component being reworked.



\*BGA nozzles see page 148