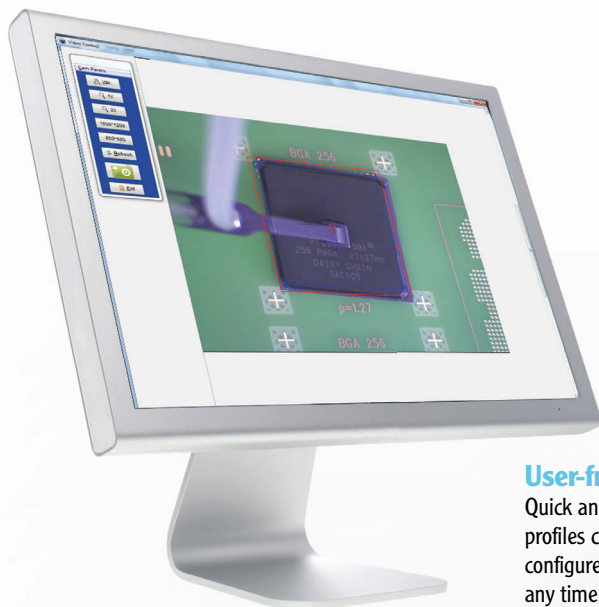


Desoldering – Pick-Up – Positioning – Soldering



WTQB 1000 rework system.

Weller®



User-friendly software

Quick and easy to install and use. Working profiles can be individually created and configured and can be called up again at any time.

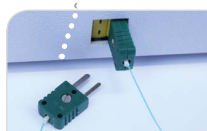
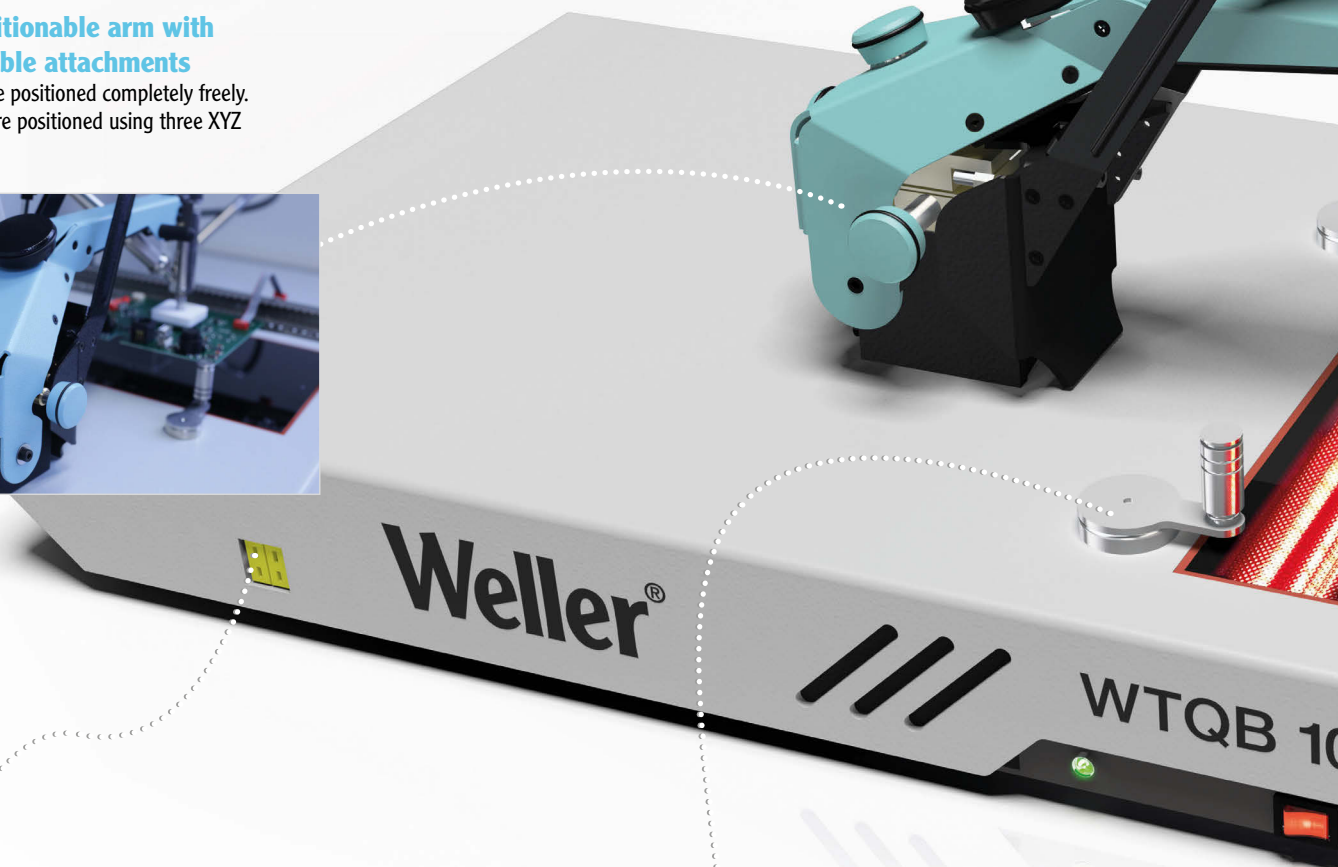
Freely positionable arm with exchangeable attachments

The arm can be positioned completely freely. Components are positioned using three XYZ control dials.



HD camera

Monitoring, controlling, positioning: Intelligent video technology guarantees outstanding results for the demanding rework process.



Thermocouple connections

Two designs for monitoring optimisation and process optimisation.



Wide range of components

For varied sizes and types, such as BTC, plugs, small passive, QFP and LED (1.0 mm to 42 mm)



Flexible magnetic feet

Assemblies can easily be fastened and fixed using flexible magnetic holders, magnetic stop rails, a vacuum pipette and rotation.



Infrared bottom heating

Consistently powerful preheating of the entire assembly with four individually connectable heating zones in accordance with current standards.



Vacuum component holder

Easy, precise placement of the components in X,Y and theta directions.



Vacuum pick-up pen

Process reliability, even when manually soldering and de-soldering components. The vacuum pick-up pen helps users to achieve incredibly accurate results.

Flexible tool holder

This not only holds the vacuum pick-up pens and vacuum pens, but also enables multiple attachments to be held and exchanged safely while hot.



Residual solder pipette

Thorough, clean removal of any residual solder.



Freely positionable stop rail

Any assembly can be fixed flexibly and safely, no matter its shape, using the magnet principle.

WTQB 1000 rework system: Advantages that benefit you.

The new rework solution for small components and big challenges.

Thanks to the integrated camera, even the smallest components can be positioned and repaired manually with maximum precision. The user-friendly software makes installing and using the rework station simple. All working profiles can be individually created and adjusted and can be called up again at any time.

The perfect system for any situation: Even suitable for small and medium businesses as a cost-efficient rework solution and highly precise standalone workstation that enables optimal work on multilayer assemblies. The unit is ESD-safe and prevents delicate components being damaged, enabling it to be used in sensitive installation areas.

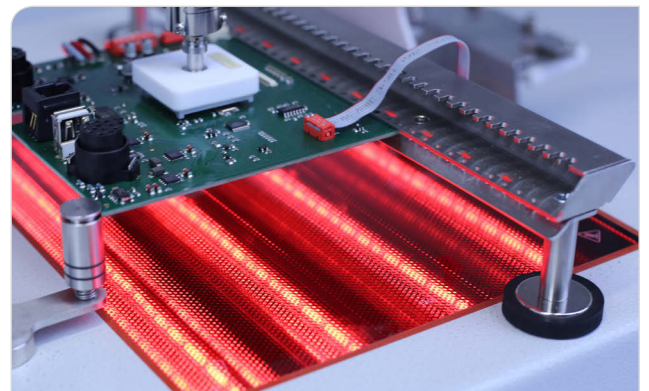
Perfection through positioning.

Precision and optimal heat distribution:



Precise, reproducible placement using a PC or laptop monitor with a software-controlled HD camera

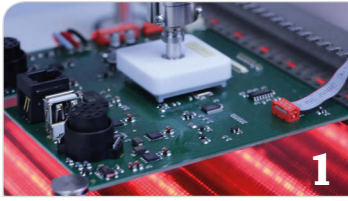
The high-definition camera enables the component to be precisely positioned in the X,Y and theta directions. Highest levels of precision.



Infrared bottom heating

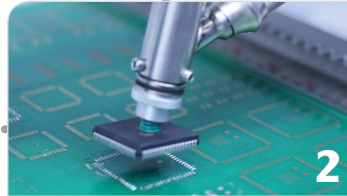
Consistent pre-heating and heat distribution to prevent undesired temperature differences and mechanical tensions that arise as a result.

Process reliability



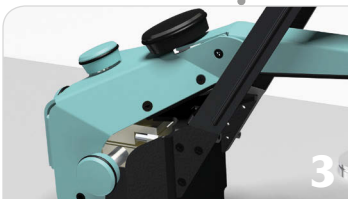
DESOLDERING

Components are heated directly from above using the hot air nozzle, while at the same time, the entire assembly is heated gently from below by the infrared heating. The component can be desoldered quickly, easily and carefully.



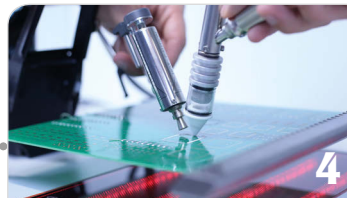
PICK-UP

Using the vacuum pipette the component can be lifted out of the board safely and easily.



POSITIONING

The high-definition camera ensures that the placement can be repeated precisely. The lens can be set to various levels of zoom.



SOLDERING

Independent creation and maintenance of reflow profiles with individual temperature parameters enables reliable, reproducible soldering results.

Complete solution:

- Precision due to camera-supported component placement
- Suitable for even the smallest components, at sizes of 1.0 mm
- Covers the entire rework process
- Flexible magnetic fixing system
- Manually operated, easy to use
- Software-controlled rework cycle
- Excellent price-performance ratio
- Full range of tools and especially wide range of accessories
- Maximum repeatability and reproducibility of results
- No visual calibration required



Technical data WTQB 1000

Dimensions L x B x H (Inch)	26 x 14,2 x 15,4
Dimensions L x B x H (mm)	660 x 360 x 390
Workspace L x B x H (Inch)	31,5 x 19,7 x 15,7
Workspace L x B x H (mm)	800 x 500 x 400
Recommended PCB size (mm)	200 x 260
Recommended component size (mm)	1 x 1 - 42 x 42
Compressed air connection	Air hose 6 mm (0,24")
Compressed air connection / remark	dry, oil free
Compressed air (kPa / bar)	550 - 800 / 5,5 - 8
Air consumption (l/min)	35 - 85
Hot air volume (l/min)	6 - 35
ESD safe	Yes
Noise level (1 m) dB(A)	58 - 62
Weight (~kg)	22
Power	2644 VA
Nominal power top heater (W)	300
Nominal power bottom heater (W)	2000
Protection class	1
Voltage	230 V / 50 Hz
Temp. range /Top Heater (°C)	150 - 450
Optical placement	Yes
Optical placement system	Optical positioning frame
Thermocouple port	2 x Type-K

Accessories

1. WTQB 1000 basic unit

230V F	T0053388699
230 V UK F/G	T0053388399
110 V NA	WTQB1000N
230 V AUS/CN	T0053388499
230 V IND	T0053388999



2. BG nozzles

WTQB 1000 BGA nozzle 15 x 15	T0051392199
WTQB 1000 BGA nozzle 23 x 23	T0051392299
WTQB 1000 BGA nozzle 27 x 27	T0051392399
WTQB 1000 BGA nozzle 31 x 31	T0051392499
WTQB 1000 BGA nozzle 35 x 35	T0051392599
WTQB 1000 BGA nozzle 37.5 x 37.5	T0051392699
WTQB 1000 BGA nozzle 40 x 40	T0051392799



3. QFP nozzles

WTQB 1000 QFP nozzle 15 x 15	T0051392899
WTQB 1000 QFP nozzle 20 x 20	T0051392999
WTQB 1000 QFP nozzle 20 x 26	T0051393099
WTQB 1000 QFP nozzle 25 x 25	T0051393199
WTQB 1000 QFP nozzle 30 x 30	T0051393299
WTQB 1000 QFP nozzle 36 x 36	T0051393399
WTQB 1000 QFP nozzle 45 x 45	T0051393499



4. QFN nozzles

WTQB 1000 CSP QFN nozzle 9 x 9	T0051393599
WTQB 1000 CSP QFN nozzle 11 x 11	T0051393699
WTQB 1000 CSP QFN nozzle 13 x 13	T0051393799
WTQB 1000 CSP QFN nozzle 16 x 16	T0051393899



5. Vacuum pick-up pen

WTQB 1000 Vacuum pick-up pen 4.5 mm	T0051394099
WTQB 1000 Vacuum pick-up pen 0.5 mm	T0051394199
WTQB 1000 Vacuum pick-up pen 3 mm	T0051394299
WTQB 1000 Vacuum pick-up pen 5 mm	T0051394399
WTQB 1000 Vacuum pick-up pen 1 mm	T0051394499
WTQB 1000 Vacuum pick-up pen 2 mm	T0051394599
WTQB 1000 Vacuum pick-up pen 10 mm	T0051394699



6. Process stations

WTQB 1000 print station	T0051391699
WTQB 1000 dip station	T0051391799
WTQB 1000 µSMD pocket station	T0051391899
WTQB 1000 µSMD feeder station	T0051391999



Optionally available: Accessory kits for solder paste printing, cleaning, reballing and more.

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