Opening up new possibilities in repair and rework

As on-board components become increasingly complex, Weller continues to lead the field with innovative, user-friendly repair and assembly tools that enable users to successfully take on increasingly demanding repair challenges.

The new WQB 4000SOPS (Split Optic Positioning System), the third-generation of the Weller BGA/SMT repair system, is engineered to meet the exceptional demands placed on modern rework tools and designed to deliver real value for your investment.

It is a comprehensive, user-friendly system for the removal and soldering of BGA components, without the risk of thermal damage to the component or circuit board.

Split Optics for perfectly accurate positioning

The new SOPS (Split Optic Positioning System) with high-resolution 2 Mpix CMOS USB 2.0 camera enables accurate positioning of the components following desoldering. It works with a single camera and two-color lighting for exact positioning. Superb image quality at high dynamics and very low image noise ensure precise, ergonomic component mounting.

www.weller.eu
www.apextoolgroup.eu

WQB 4000SOPS – The next generation
For unmatched precision & functionality

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TIBS 57 101 30 34 2011 06 E J
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1. Components without direct access to the solder joint
2. Leaded components with external solder joints
3. A wide variety of special modules

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Weller's next-generation rework and rework station combines a completely new design with state-of-the-art split optic camera technology to provide users with absolute reliability, optimum process control and enhanced ease of use.

The system was engineered to bring together a finely tuned balance of automation technology for component pick-up and positioning with a semi-automated rework cycle on opening new possibilities and applications in repair and rework.

Well considered detail, precise results and an extraordinary price-performance ratio promise to make this new system from Weller the first choice among discerning users.

Advanced design for enhanced precision.

The WQB 4000SOPS is modularly constructed as a separate thermal insulation system and controls the highest quality to guarantee industrial reliability and long lasting durability.

Rapid heating from above: selective heating.

The hot gas heater with patented nozzle and sensitive thermistor overload of the component and directly in the hot gas nozzle prevents components. A temperature sensor placed in the finely metered supply of heat to the component soldering and rework cycle – opening up new possibilities and applications in repair and rework.

Heating from below: selective heating.

Rapid and homogeneous heating from above: selective heating.

The temperature-regulated two-zone heating from below: selective heating.

The hot gas heater with patented nozzle and sensitive thermistor directly in the hot gas nozzle prevents components. A temperature sensor placed in the finely metered supply of heat to the component soldering and rework cycle – opening up new possibilities and applications in repair and rework.

Optimized ease of use.

WQL 4000SOPS enables users to work both in a controlled process. A temperature sensor placed in the finely metered supply of heat to the component soldering and rework cycle – opening up new possibilities and applications in repair and rework.

Perfect component alignment.

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Temperature profiling.

An eight-step temperature profile enables soldering and cooling that is perfectly tailored to specific requirements.

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The WQB 4000SOPS is optimally equipped to take on repair and rework in mobile communications, research and general BGA/QFP work. Specifically, with PBGA, CBGA, CCGA, CSP’s, Micro BGA, QFN, PLCC, SOP and PGA components.

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