



**Weller**<sup>®</sup>

**WD – Soldering Solutions**  
**Excellence in Performance**

**COOPER** Hand Tools



# High-Power-Technology

## for High-Precision Results

### Where energy efficiency meets sensitivity

Never before have the challenges in the fast-paced field of microelectronics been so complex. And never before has technology offered more advanced solutions for on-board assembly and repair. Weller®'s new generation of HPT (High-Power-Technology) hand-operated, microprocessor-controlled soldering tools brings together the highest possible energy efficiency with optimal sensitivity to meet the increasingly complex demands of soldering technology.

Weller® offers users in all industrial applications a wide selection of state-of-the-art, high-performance soldering tools engineered for simplicity of use, optimised functionality, reliability and unmatched application fitness.



### Optimal thermal transfer at low temperatures

Advanced heating and sensor technology  
– developed for optimal thermal conductivity  
– delivers top performance on small surfaces  
at the lowest possible temperatures to reduce  
thermal stress on the boards and minimise risk  
of damage.

Thanks to reduced mechanical pressure,  
Weller®'s new generation of HPT (High-Power-Technology)  
soldering tools also help to extend  
soldering tip, lifetime and reduce lifecycle costs.



## Best life cycle cost at dynamic performance

The new WP 120 High-Power-Technology Soldering Pencil offers twice as much power and efficiency in a small and ergonomic pencil design. Combining a compact, powerful heating element with a replaceable soldering tip the WP 120 soldering pencil guarantees dynamic performance and best life cycle costs.

The rapid transfer of heat into the soldering tip is quickly and precisely controlled with sophisticated electronics which allows the WP 120's compact design to cope with big and difficult solder joints even when they are barely accessible.



New



New



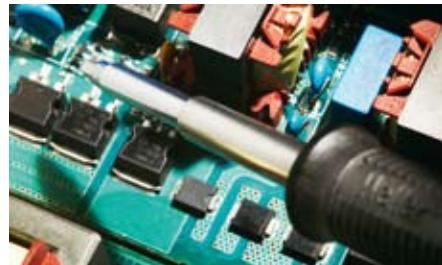
# High-Power-Technology combined with ergonomic design

## Finely tuned systems designed for maximum working efficiency

To address a wide variety of soldering applications, Weller® offers a comprehensive selection of high quality soldering tips – developed for superior performance both in terms of heat-up and thermal efficiency. All system component parts are manufactured for optimum heat transfer, to ensure the efficient use of power provided by the supply unit. The WP 120 High-Power Soldering Pencil features Weller®'s new Advanced Sensor Technology (sensor is located at the very end of the soldering tip) which means the heating performance is comparable with an active soldering tip.

The Weller® Micro-Tools work with active soldering tips. Active soldering tips combine the heating element, soldering tip and sensor in one component which guarantees an optimum heat transfer.

Changing soldering tips is quick, easy and requires no additional tools.



### WP 120 High-Power Soldering Pencil

- 120 W High-Power soldering pencil
- Equipped with Weller® Advanced Sensor Technology
- Very short heat-up time
- Twice as much power and efficiency as a standard soldering pencil
- Best life cycle cost for soldering tips
- Ideal for big and difficult solder joints as well as for HF shield plates and solar panel manufacturing



### WP 80 Soldering Pencil

- 80 W soldering pencil
- Very short heat-up time
- Short tip-to-grip design for work under microscopes
- Distance from grip to tip only 45 mm
- For small and sensitive components



## Increasing lifetime with Weller® Stop & Go safety rests

Weller®'s 'Stop & Go' system concept increases the lifetime of soldering tips, while ensuring absolute control and optimised working efficiency. The combination of an intelligent Weller® power unit with the Weller® Stop & Go safety rest means soldering tip temperature is automatically reduced resulting in increased tip lifetime.

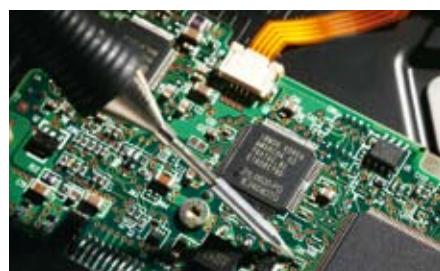


## Best soldering results with Weller® cleaning sets when using lead free solder

Non wettable soldering tips must be dry cleaned! This is not a problem when using Weller® cleaning sets. Oxidized tips can be refurbished by using the Weller® Tip Activator, a stainless steel brush, or for compacted oxide films the Weller® polishing bar. Use the Weller® WDC Dry Cleaner for standard cleaning maintenance to protect the soldering tip from oxidation.

### Cleaning Tip

Leadfree soldering = dry cleaning (using the Weller® WDC sets)  
Leaded soldering = wet cleaning (using a sponge)



### WMRP Micro Soldering Pencil

- 40 W Micro-Tool
- Extremely short heat-up time
- Works with an active soldering tip for optimum heat transfer
- Highly efficient utilization of the power generated by the power unit
- Recovery time is minimized



### WMRT Micro Desoldering Tweezers

- 2 x 40 W Micro-Tool
- Extremely short heat-up time
- Works with an active soldering tip for optimum heat transfer
- Highly efficient utilization of the power generated by the power unit
- Recovery time is minimized
- Micro desoldering tweezers to desolder dual connected components in one operation
- Twin parallel adjustable triplets
- Ideal soldering and desoldering of very small SMT components

# Simplicity of Use in the Forefront

## Ready, set, go – with perfect accuracy

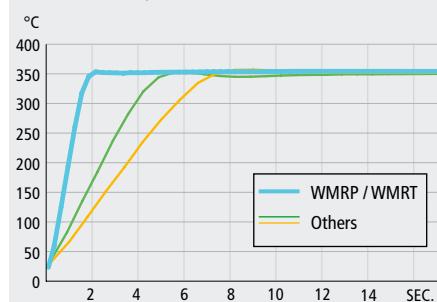
As on-board components become more complex, Weller® continues to lead the field with innovative, user-friendly tools able to take on virtually any soldering application. The microprocessor-controlled power units and soldering stations are engineered for industrial applications and designed with operational simplicity for the user to the forefront.

Weller®'s new HPT (High-Power-Technology) power units feature compact, ergonomic design, a small footprint and 'ready-set-go' user-friendliness.

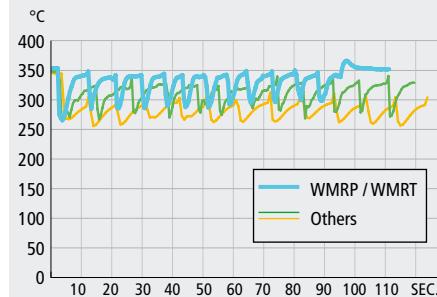
A large LC display ensures the clear communication of information, perfect legibility, easy handling and optimised operation. Three fixed temperatures can be assigned via the temperature buttons; users can set temperature values as required.



Fastest heat-up time of Weller (R) tools



Strongest recovery time



Temperature accuracy and optimised, dynamic temperature behaviour is achieved by fast, precise measured-value recording in Weller®'s closed control loop. Precise tip temperature control is guaranteed by the digital control electronics, and high-quality sensor and heat transmission technology in the soldering tool. This minimises stress on components and boards.

All Weller® Digital Soldering Stations are adjusted by means of software and a closed loop control circuitry. The individual adjustment values of the station are unchangeably programmed into the microcontroller. Therefore a frequently re-calibration of stations is not needed.

However for legal calibration regulations, all stations are equipped with the functionality FCC (Factory Calibration Check), to be able to verify the original settings, if required by ISO or other regulations. Adjustments can be done if necessary.