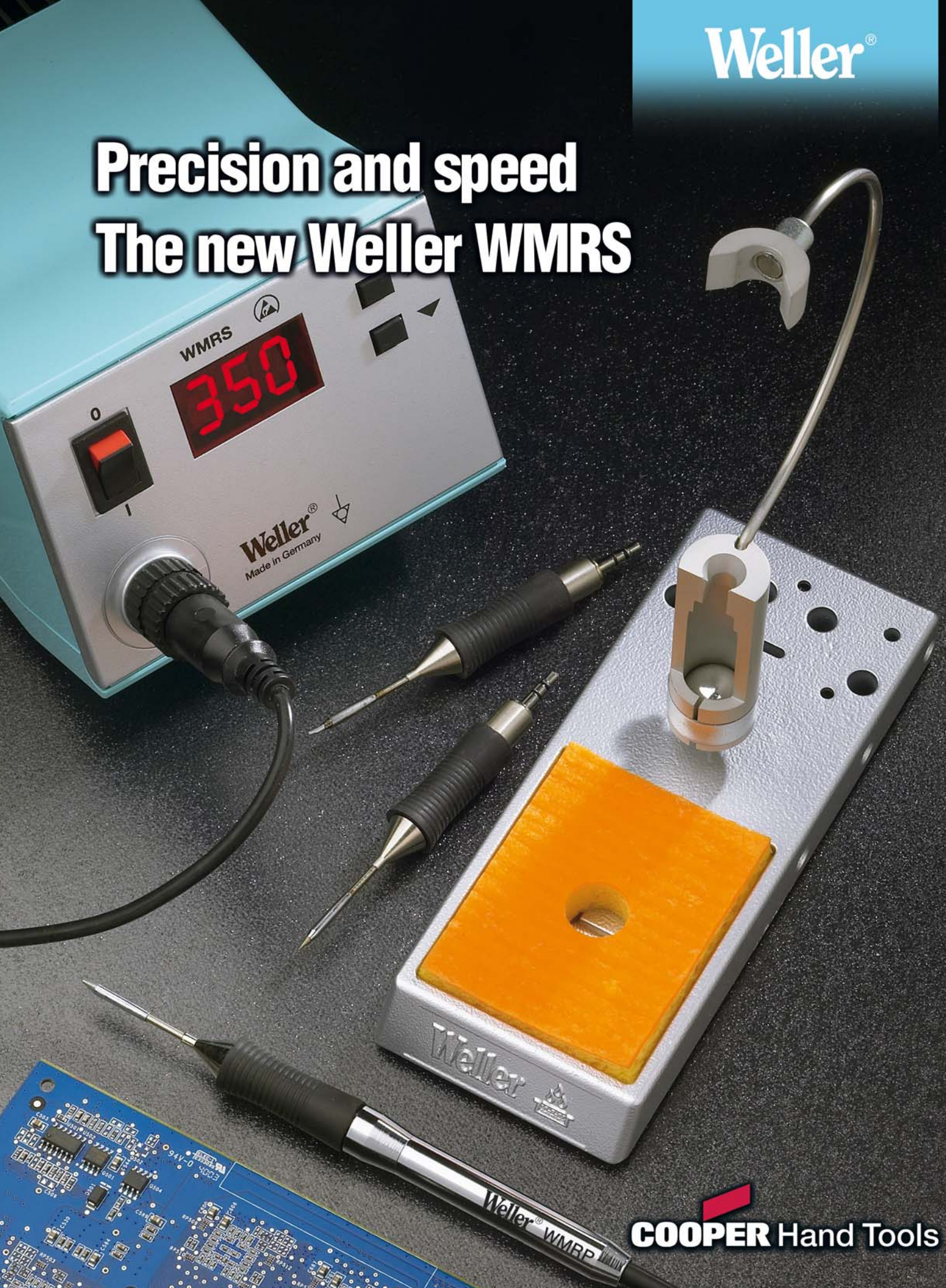


Weller®

# Precision and speed The new Weller WMRS

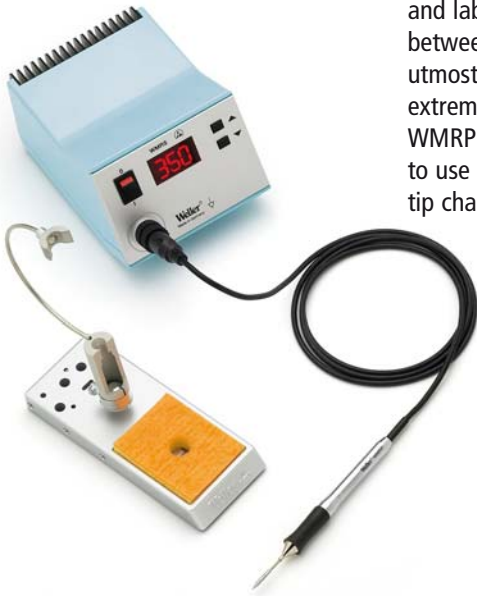


**COOPER** Hand Tools

# The new Weller WMRS

The solution for demanding soldering tasks on crowded circuit boards, microsoldering applications and microscope workstations.

The **Weller Micro Repair Station (WMRS)** was specially developed for industrial manufacturing technology and rework and laboratory use. The short distance between the handle and tip allows the utmost precision in handling, and the extremely short heat-up time of the WMRP soldering pencil makes it ready to use right away, even after a tool-free tip change.



The digital control electronics of the supply unit detect all other electronically controlled Weller soldering tools up to 80 W, and automatically set the optimal control parameters for each.

## Technical data

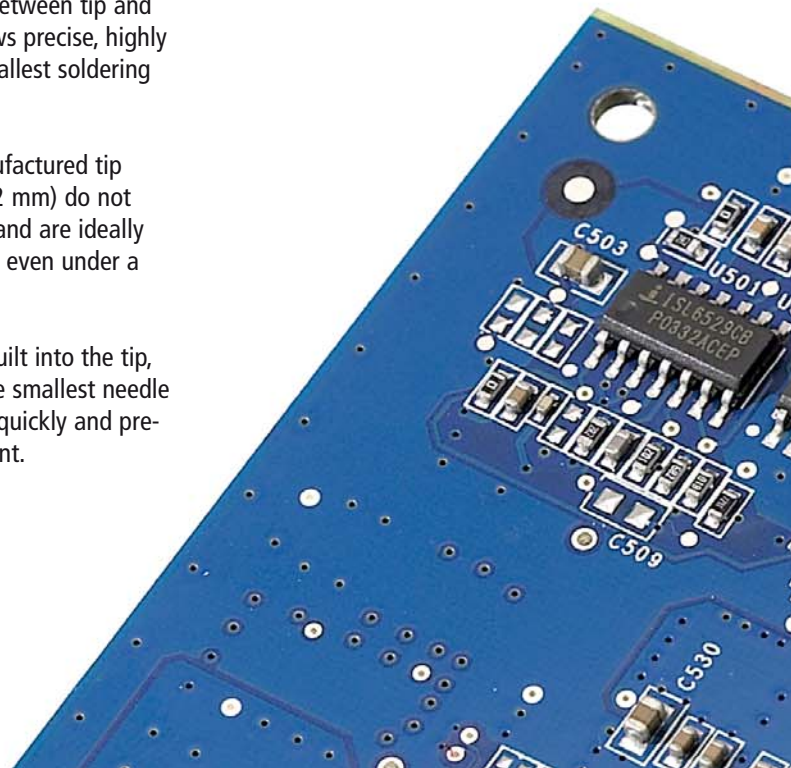
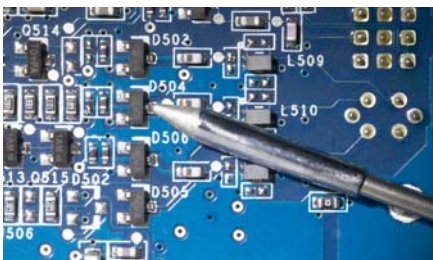
- Maximum power of soldering tips: 40 W
- Maximum power of supply unit: 80 W
- Equipotential bonding possible, factory setting is hard grounded
- Protection class 1 (control unit), 3 (soldering tool)
- 230 V fuse: T 500 mA
- Temperature range: 50°C - 450°C
- Accuracy of soldering pencils: +/- 9°C
- Control accuracy: +/- 1°C
- ESD safe

## Small + handy

The very short distance between tip and handle (Tip-to-Grip) allows precise, highly accurate work on the smallest soldering joints and components.

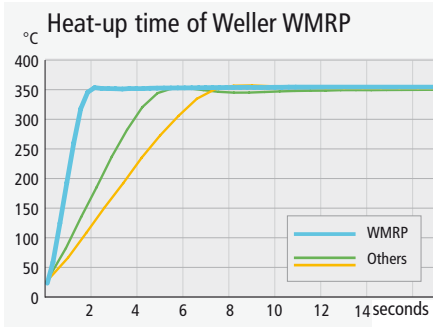
The small, precisely manufactured tip dimensions (0.2 mm - 2.2 mm) do not obstruct the user's view and are ideally suited to the finest work, even under a microscope.

The heating element is built into the tip, ensuring that, even in the smallest needle tip, the heat is delivered quickly and precisely to the soldering joint.



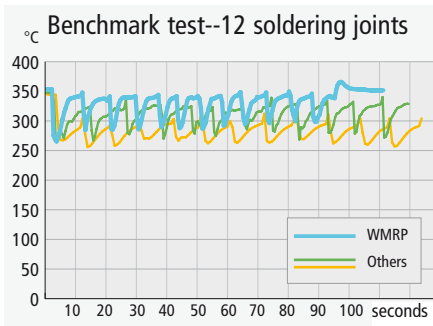
# Precision and speed

## Quick + versatile



The WMRP soldering pencil has an extremely short heat-up time.\* (Approx. 2 seconds from standby to setpoint temperature!) All component parts of the system, such as the sensor and heating element, are designed for optimum heat transfer. This ensures absolute efficiency in the utilization of the power provided by the supply unit.

Changing soldering tips is quick, easy, and, most importantly, requires no tools. Just pull out the old one, push in the new one, and continue soldering. Thanks to its short heat-up time, the soldering pencil is ready to use again immediately!

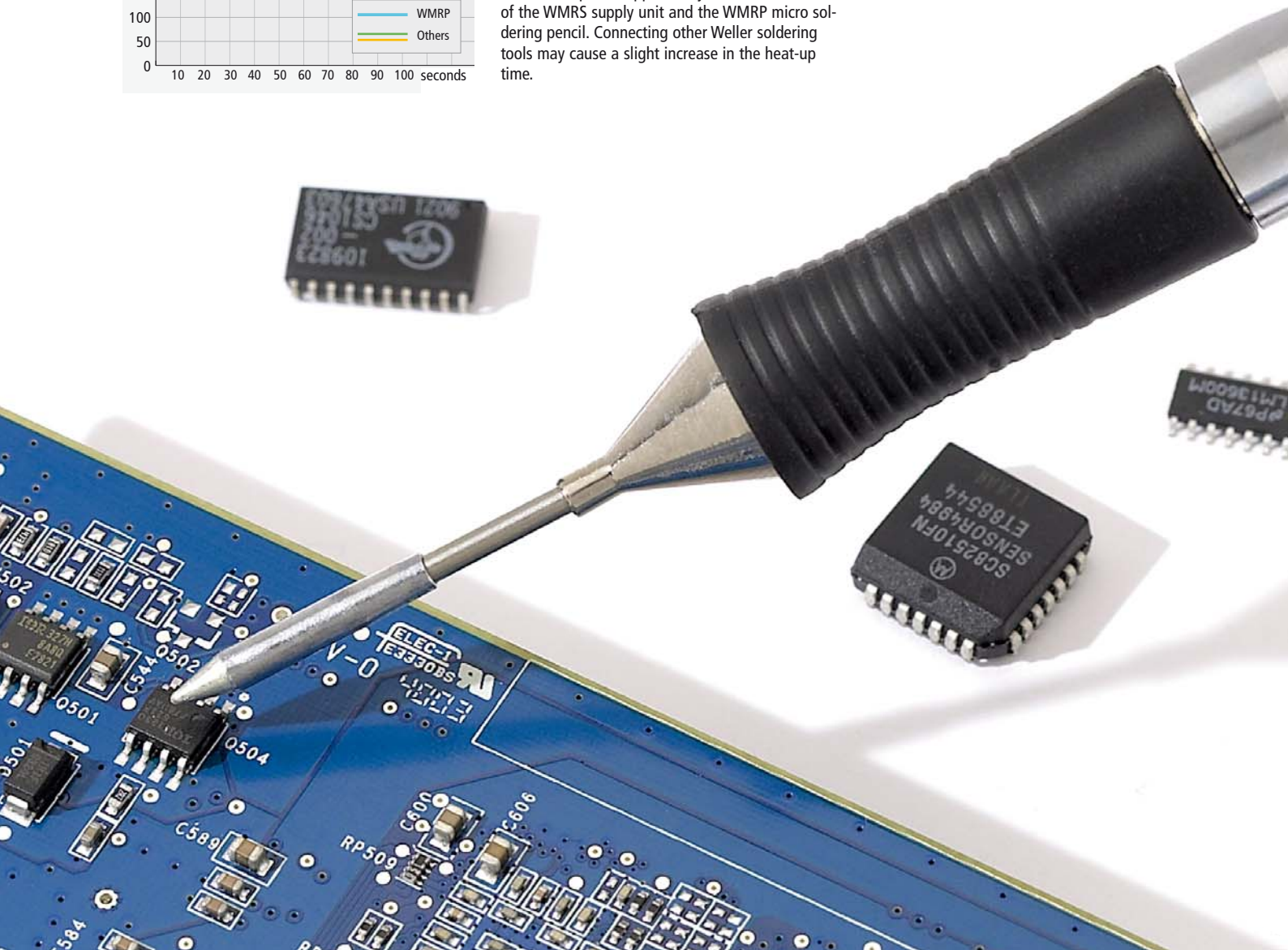


The heating element and sensor are built into the tip. This provides not only a quick heat-up time, but also perfect temperature stability. The sensor is located right at the tip, meaning that it can react with lightning speed while under load and supply the energy required. The recovery time is minimized.

The range of available soldering tips includes needle, round, and chisel shapes as well as knife tips. You can choose the tip that best suits each of your tasks.

The digital control electronics of the supply unit detect all other electronically controlled Weller soldering tools up to 80 W and automatically set the optimal control parameters for each.

\*The heat-up time applies only to the combination of the WMRS supply unit and the WMRP micro soldering pencil. Connecting other Weller soldering tools may cause a slight increase in the heat-up time.





## Ergonomic + economic

The small, lightweight construction of the WMRP soldering pencil makes work both easy and comfortable.

The WMRH safety rest has been designed with the latest ergonomic considerations in mind. Though it may appear unusual at first glance, the special geometry of the holder actually relieves the wrist of a substantial amount of strain. It avoids the usual turning and tilting motions, giving the user's wrist a break. The holder can be adjusted individually with a ball-and-socket joint at the base.


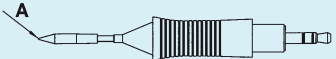
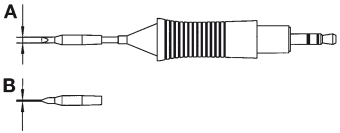
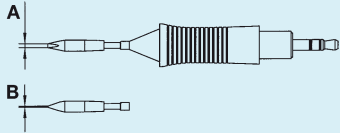
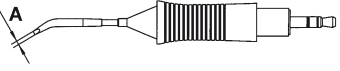
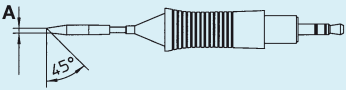
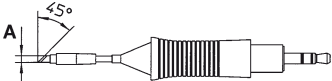
The built-in Stop+Go function in the safety rest reduces the temperature of the tip when the pencil is inserted. For this function, you can choose between "Off" or "Standby" (20 min.) on the unit. This substantially increases the service life of the soldering tips and prevents oxidation of the tip during long pauses between work. The supply unit restarts automatically when the pencil has been taken out of the rest. Thanks to the extremely quick heat-up time, the tip returns to the set temperature in an instant, and the micro soldering pencil is ready to use.



## RT series soldering tips for the WMRP micro soldering pencil

RT series soldering tips are specially designed for microsoldering tasks and microscope workstations. Of course, they can also be used with lead-free solder.

Changing soldering tips is quick, easy and, most importantly, requires no tools. Just pull out the old one, push in the new one, and continue soldering. Thanks to its short heat-up time, the soldering pencil is ready to use again right away!

	Model	Description	Width A	Thickness B	Order No.
	RT 1	Needle tip	–	–	005 44 601 99
	RT 2	Point tip	Ø 0.4 mm	–	005 44 602 99
	RT 3	Chisel shape, straight	1.3 mm	0.4 mm	005 44 603 99
	RT 4	Chisel shape, straight	1.5 mm	0.4 mm	005 44 604 99
	RT 5	Chisel shape, bent, 30°	0.8 mm	0.4 mm	005 44 605 99
	RT 6	Round shape, beveled, 45°	Ø 1.2 mm	–	005 44 606 99
	RT 7	Knife tip, 45°	2.2 mm	–	005 44 607 99

Select the Weller system best suited to your needs.



**WMRS**

**Order number** 005 32 906 99

Consists of:

- WMRS supply unit
- WMRP soldering pencil 005 29 171 99
- Rest with Stop+Go function WMRH 005 15 145 99
- RT 1 soldering tip 005 44 601 99
- RT 3 soldering tip 005 44 603 99

**Accessory for WMRS:**

- Support for RT tips 005 87 518 16

## Accessory



**WCB 2**

**Order number** 005 31 180 99

Consists of:

- Programming box
- 4 x 1.5 V battery

**Accessories for WCB 2:**

- Power supply adapter 230 V, 50 HZ 005 31 184 99
- Type K thermoelement Ø 0.5 mm 005 31 190 99
- RS 232 interface cable 005 31 191 99

### WCB 2 measurement and programming box

The WCB programming box is an external input device for programming additional functions for all Weller digital soldering, hot air and unsoldering stations. The battery-operated device does not require an external power supply and is easy to transport. The WCB 2 has an RS 232 interface for connecting to a PC and a built-in temperature measurement device for connecting a Type K thermoelement (accessory). The programming box has the following input options:

- **OFFSET:** In case of discrepancy between the temperature displayed and that measured at the soldering tip, allows a correction value to be entered so that the setpoint and actual values agree.
- **SETBACK:** Lowers the setpoint temperature after a user-definable time period.
- **LOCK:** Locks the setpoint temperature.
- **°C / °F:** Switches the temperature display between °C and °F.
- **WINDOW:** Sets a setpoint temperature window. If the actual temperature is within a setpoint window, a floating contact is switched (PUD 81R only).
- **Measuring tips** are available for all soldering pencils.

**COOPER Hand Tools**

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