

Weller®

WD1000M and WD2000M Soldering Stations

**Test Equipment
Depot**
1-800-517-8431

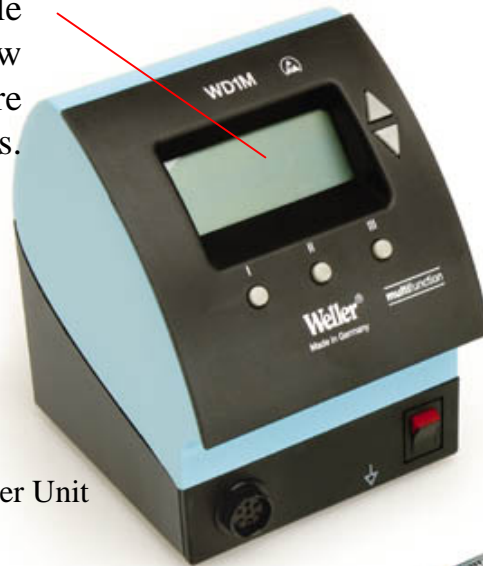
99 Washington Street
Melrose, MA 02176
Fax 781-665-0780
TestEquipmentDepot.com



Multi-function Soldering Stations WD1000M and WD2000M with **High Speed Regulation** for Micro Soldering Tools.

The Weller WD1000M and WD2000M are an extension of the popular WD1000 and WD1001 soldering stations. This next generation product features a technology that allows the use of the WMRP micro soldering pencil and the new WMRT micro desoldering tweezers. The electronics provide **high speed regulation** for these new tools, with advanced technology for high reliability and micro electronic applications. In addition, standard Weller soldering tools such as the WSP80 80-watt soldering pencil are compatible.

Modern LCD display technology gives users critical information at a glance, while three programmable temperature preset buttons allow quick and easy temperature changes.



WD1M Power Unit



WMRH Pencil Stand



Weller's unique stereo jack plug system is fast, convenient, and secure.



WMRP Micro Pencil

The small, lightweight (just 75 g) construction of the WMRP soldering pencil makes work both easy and comfortable.

- Modern LCD technology gives users critical information at a glance
- Three programmable temperature preset buttons allow quick and easy temperature changes
- The digital control electronics of the supply unit detect all other Weller electronically controlled soldering tools up to 80W, and automatically set the optimal control parameters for each
- Silver buttons on the front panel indicate compatibility with silver soldering pencil (WMRP) and rework tweezers (WMRT)
- ESD safe to protect sensitive components

- The power supply is equipped with a USB port for connection to a PC. This interface allows for data logging for ISO applications

- The station can be controlled remotely via the software

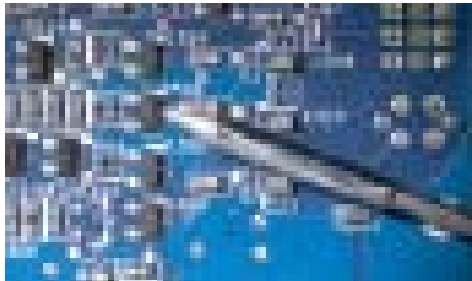
- Power supply is connected to a PC by a USB connector type A to miniUSB 5 pole typically used with digital cameras (included).

- The software and USB cable are included free of charge. Software is on a mini-CD.





- Developed for industrial production applications, rework and repair, and laboratory use.
- The short distance between the handle and the tip allows the utmost precision in handling
- The small, precisely manufactured tip dimensions (ranging from needle point to 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 the heat is delivered quickly and precisely to the soldering joint
- The extremely short heat up time of the WMRP makes it available for use right away
- Tip changes can be made quickly without a tip changing tool or grip pad

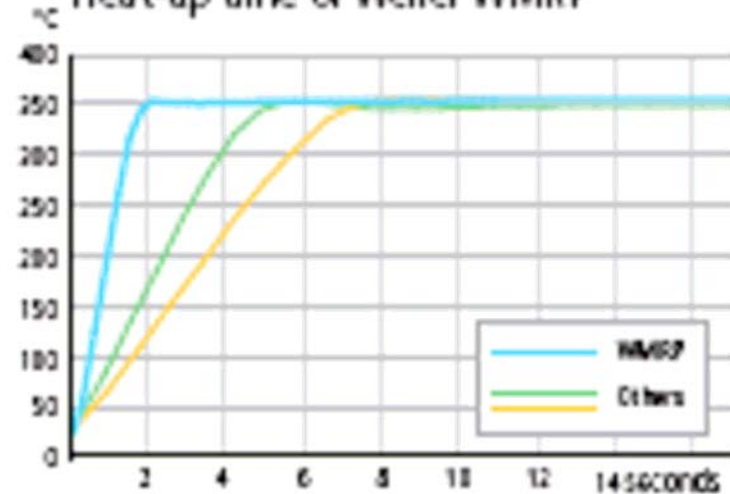


The WMRP micro soldering pencil is suitable for use under magnification.

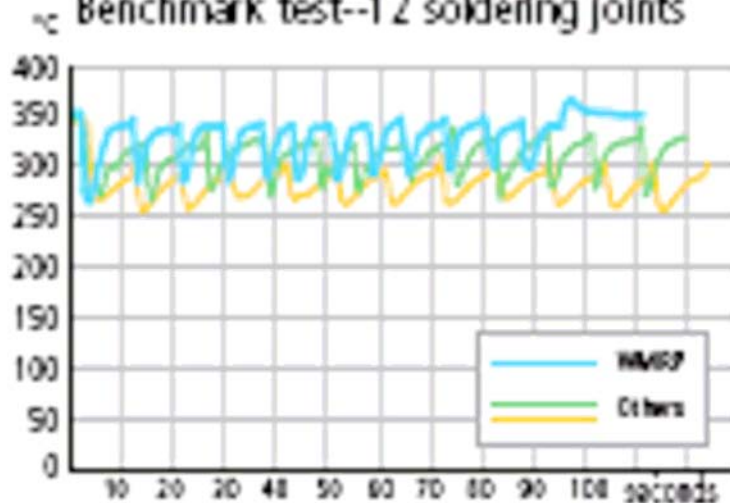
- The small, lightweight (75 g) construction of the WMRP soldering pencil makes work both easy and comfortable
- The special geometry of the WMRH holder relieves the wrist of a substantial amount of strain
- The pencil holder can be adjusted to different angles using the ball and socket joint at the base of the holder
- The built in Stop+Go function in the holder reduces the temperature of the tip when the pencil is inserted for extended tip life and reduced oxidation



Heat-up time of Weller WMRP



Benchmark test--12 soldering joints

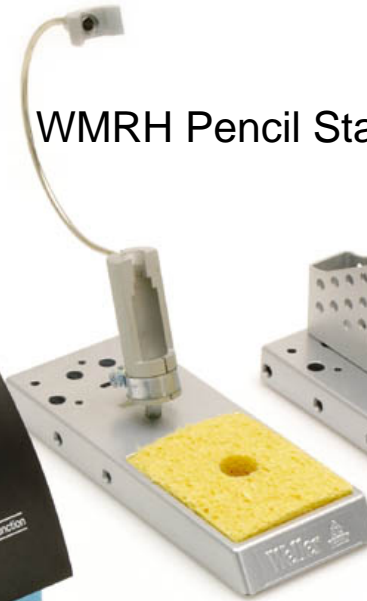


- The WMRP pencil has an extremely short heat up time from ambient temperature to set point - approx. 3 - 5 seconds depending on set point and tip mass.
- The heating element and sensor are built into the tip for quick heat up and superior temperature stability.
- The temperature sensor is located right at the tip, so that power is supplied immediately under a load and recovery time is minimized.
- Tips can be changed quickly and easily without the use of special tools. The rubber grip and RCA style phono jack make changes fast. And the superior heat up time means you are ready to work almost instantly!

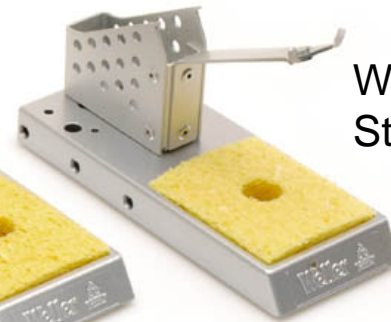
WD2M Power Supply



WMRH Pencil Stand



WMRTH Tweezer Stand



WMRP Micro Pencil



WMRT Micro Tweezer



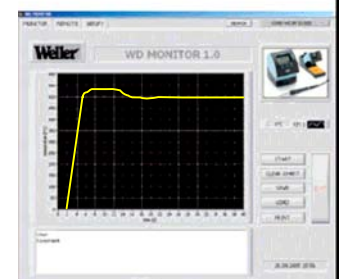
- Modern LCD technology gives users critical information at a glance
- Will run up to two 80 watt tools simultaneously
- Three programmable temperature preset buttons allow quick and easy temperature changes
- The digital control electronics of the supply unit detect all other Weller electronically controlled soldering tools up to 80W, and automatically set the optimal control parameters for each
- Software on the included CD allows you to interface with a PC via the USB port on the back of the power supply.
- Silver buttons on the front panel indicate compatibility with silver soldering pencil (WMRP) and rework tweezers (WMRT).
- ESD safe to protect sensitive components

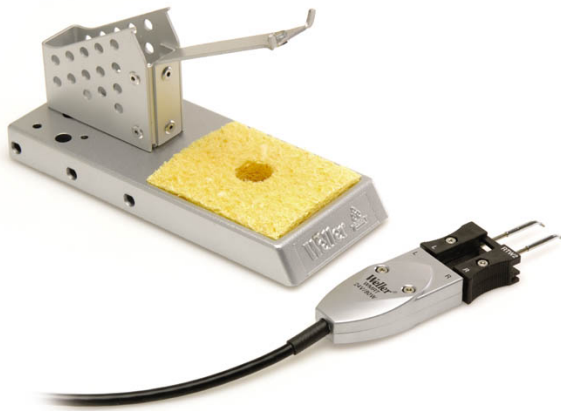
- The power supply is equipped with a USB port for connection to a PC. This interface allows for data logging for ISO applications

- The station can be controlled remotely via the software

- Power supply is connected to a PC by a USB connector type A to miniUSB 5 pole typically used with digital cameras (included).

- The software and USB cable are included free of charge. Software is on a mini-CD.





The new WMRT Micro Desoldering Tweezers are compatible with the WD1M single channel power supply or the WD2M dual channel power supply.

The micro design employs the use of tip cartridges with a twin parallel design, so the tips are always in alignment. With the WMRT, you are able to desolder very small SMD components down to 0201.

When you place the tweezers in the WMRTH Stop+Go rest, the unit is switched off to extend tip life. When you remove the tweezers from the stand, you can begin working again almost immediately due to the super-fast heat-up

What pencil goes with what station?

		WSP80	WMP	WMRP	WMRT
					
WD1		✓	✓	X	X
WD2		✓	✓	X	X
WD1M		✓	✓	✓	✓
WD2M		✓	✓	✓	✓



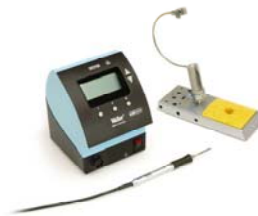
WD1M
Single Channel Power Unit with High Speed Regulation

Specifications:
 Voltage: 120V (input); 24V (output)
 Footprint: 5.27" x 4.25" x 5.39" (134 x 108 x 137 mm)
 Power consumption 95 W
 Temp range 150°F - 850°F (50°C - 450°C)
 ESD safe Yes
 Temperature Accuracy +/- 9°F (5°C)
 Temperature Stability +/- 10°F (6°C)



WD2M
Dual Channel Power Unit with High Speed Regulation

Specifications:
 Voltage: 120V (input); 24V (output)
 Footprint: 5.27" x 4.25" x 5.39" (134 x 108 x 137 mm)
 Power consumption 180 W
 Temp range 150°F - 850°F (50°C - 450°C)
 ESD safe Yes
 Temperature Accuracy +/- 9°F (5°C)
 Temperature Stability +/- 10°F (6°C)






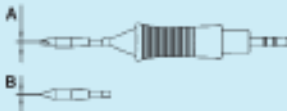



WD1000M
WD1M Single Channel Power Unit with WMRP Micro Soldering Pencil and WMRH Soldering Pencil Stand

Specifications:
 Voltage: 120V (input); 24V (output)
 Footprint: 5.27" x 4.25" x 5.39" (134 x 108 x 137 mm)
 Power consumption 95 W
 Temp range 150°F - 850°F (50°C - 450°C)
 ESD safe Yes
 Temperature Accuracy +/- 9°F (5°C)
 Temperature Stability +/- 10°F (6°C)
 Stand WMRH (order no. 0051514599)
 Pencil WMRP (order no. 0052917199)

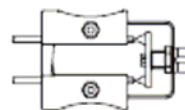


WD2000M
WD2M Dual Channel Power Unit with WMRP Micro Soldering Pencil, WMRH Soldering Pencil Stand, Plus WMRT Micro Thermal Tweezer and WMRTH Stop+Go Stand

Specifications:
 Voltage: 120V (input); 24V (output)
 Footprint: 5.27" x 4.25" x 5.39" (134 x 108 x 137 mm)
 Power consumption 180 W
 Temp range 150°F - 850°F (50°C - 450°C)
 ESD safe Yes
 Temperature Accuracy +/- 9°F (5°C)
 Temperature Stability +/- 10°F (6°C)
 Stands WMRH (order no. 0051514599)
 WMRTH (order no. 0051514699)
 WMRP (order no. 0052917199)
 WMRT (order no. 0051317399)
 Pencil WMRP (order no. 0052917199)

	Model	Description	Width A	Thickness B	Order No.
	RT 1	Needle tip	-	-	0054460199
	RT 2	Point tip	Ø 0.4 mm	-	0054460299
	RT 3	Chisel shape, straight	1.3 mm	0.4 mm	0054460399
	RT 4	Chisel shape, straight	1.5 mm	0.4 mm	0054460499
	RT 5	Chisel shape, bent, 30°	0.8 mm	0.4 mm	0054460599
	RT 6	Round shape, beveled, 45°	Ø 1.2 mm	-	0054460699
	RT 7	Knife tip, 45°	2.2 mm	-	0054460799

Plug-in adjusted Soldering Tip Set for WMRT



Model

Description

Dimensions

Order No.

RTW 1

Tip set

0,2 mm 45°

005 44 651 99



RTW 2

Tip set

0,7 x 0,4 mm 45°

005 44 652 99



RTW 3

Tip set

3 x 0,7 mm 45°

005 44 653 99



RTW 4

Tip set

6 x 0,7 mm 45°

005 44 654 99



	Weller WMRT	JBC PA 1200	OKI MFR-HPT	Hakko FM-2023	Pace MT-100
Power consumption	80 W	40 W	?	140 W	?
Tip cartridge included?	Yes (RTW2)	No	No	Yes	No
No. of available tips	4	8	5	3	8
Set screws?	No	Yes	No	No	No
Auto-alignment?	Yes	No	Yes	Yes	Yes
Weight	1.5 oz	40g	??	32g	?
Tip Price per PAIR	\$63 - \$75	\$76		\$60	\$49.35
Tweezer price with stand	\$ 297.00	\$ 285.00		\$ 275.00	\$ 145.00
Stand	WMRTH	PA 8110	MFR-WSPT	B2848	6019-0069-P1
Temp range	200F - 850F	?		400F - 700F	?
ANSI-J Standard	Yes	?	Yes	Yes	?
Mil-Spec	Version available on request	?	Yes	Yes	?
Power supply	WD1M / WD2M	DI2850	MFR-PTZ / SRC / PST / STZ	FM-202	HW50 / 100 / 200

Are the WSP80 and WMP pencils compatible with the WD1M and WD2M power supplies?

Yes.

What functions are programmed in to the WD1M and WD2M?

You can expect to see the same feature functionality as the WD1 and WD2 stations.

Can the WMRT micro tweezer desolder an 0201 component?

Yes, if you can see it. The RTW1 tip dimension is 0.2mm. An 0201 component is 0.5mm long, 0.25mm wide, and 0.26mm high.

Do the WD1M and WD2M require calibration?*No, calibration is not required on the WD1M and WD2M Series Stations. The stations utilize a microprocessor control and all input parameters, including calibration is a stored value. Even if the station is unplugged or powered down for an infinite time period, the stored values will not be lost.*

What are the PC system requirements to run the software?

Intel Pentium with at least 1GHz, CD ROM, Min. 512 MB RAM

USB Interface

Operating System: WIN NT, WIN 2000, WIN XP, WIN ME, WIN 9x

Graphics card with recommended resolution min. 1024 X 768, min. 16-bit color

Can the WD2M operate up to, 2 - 80 Watt Soldering Tools simultaneously? *Yes.*

Can you "Power Off" one of the tools used on the WD2M Dual Station if both tools are not needed at all times? *Yes, by depressing both the "Up and Down" Scroll Keys simultaneously, you can "toggle" each individual port "On or Off", each time the keys are depressed.*

Can the WRMT Tweezer Tip Cartridge be installed incorrectly or Upside Down? *No, the RTW Series Tip Cartridges have a "Polarized Connector" and can only be installed in one direction (angle of the tips pointing down) with the "Left (L) and Right (R) Tip indicator facing up toward the operator.*

Do the WMRT Tweezer Tips need to be "Tinned"? *Yes, like any Weller Industrial or Electronic tip series, the Iron clad Copper tips must always be Tinned to prevent Oxidation from occurring on the working surface.*

If the WD / M Series Stations are mistakenly "Locked" or the "Lock Code" is forgotten, can the station be "Un-locked" or "Reset"? *Yes, even though Weller has made it difficult to unintentionally "Lock" the WD Series stations, it is possible that the Code can be forgotten or misplaced. Weller WD Series Stations can indicate a "9 Digit" reference number by depressing Radio Button 1, that identifies what number has been used to lock the station (i.e. Depress and hold RB 1, the numbers 612 475 541 are displayed across the bottom of the LCD Display, this references that the number 1 has been used to Lock the station. Weller can provide to each customer a complete listing of 9 Digit numbers that cross reference to the possible Lock Codes of "1- 999".*

Does the WD1M and WD2M Series come with the Software and USB Cable used for controlling the station from a PC? *Yes, both stations come complete with a mini - CD with the Software Installation Instructions, required Software Drivers, Operating Instructions and Software, as well as the USB Cable (Type USB-A Standard to USB-B Mini Connector). The operating Instructions are also provided in each station in hard copy.*

Are Weller Soldering, Desoldering and Thermal Tweezer Tips "Lead Free"? *Yes, all current Weller Tips are pre-Tinned at the factory with a "Lead Free" Alloy.*

Are all Cooper Hand Tool products RoHS and WEEE compliant? What do the acronyms RoHS and WEEE stand for? *Cooper Hand Tools is in the process of identifying each of the materials used in the manufacturing process for all electrical and electronic equipment. Due to the nature of the products manufactured as well as the quantity of materials required to produce the products, there has not been an absolute decision made for all Hand Tools products. Resources have been designated to research this through all of the suppliers providing materials to the different Hand Tools facilities. The Declarations for RoHS - Restriction on Hazardous Substances and WEEE - Waste Electrical and Electronic Equipment, are designed to limit the volume of hazardous or restricted substances that are being used in electrical and electronic equipment that is eventually placed into landfills. Products that are mechanical in nature and do not meet the requirements of the EU's Declaration for electrical or electronic equipment, are basically exempt from the regulations by design.*

Can "Lead Free" tips be used equally in both "Lead Free and Lead Bearing" solder alloy applications? *Yes, the "Tinning" that is applied to the Weller solder, desolder and tweezer style tips is strictly a protective coating that is used to prevent the Iron clad plating from oxidizing prior to a customer receiving them. Between 80 and 90 percent of the Tinning that is initially applied to the tips at the factory will be removed during the first heat up and cleaning cycle that the tips are subjected to. At that time, the alloy that is used for the application mixes with the remaining 10 - 20 percent and is reduced percentage wise, with each tinning of the tip, to the point of being non-existent.*