# Weller

# Performance By Design.

WD1

Exceptional ease of use. Impressive power. Elegant shape. Introducing the new WD Series soldering stations.

-2-

· manufaction



WD2M

**COOPER** Hand Tools

# **Big-screen simplicity**

## Three programmable presets and a large LCD display make operation easy

Both the WD1 and WD2 stations feature three independent and fully programmable preset buttons that allow you to select a preset temperature for each. The operation of the buttons is similar to the station selection buttons on a car radio... just set the temperature to the desired setting, press and hold any of the buttons for two seconds, and that button is preset to that temperature. The programming range of the buttons is anywhere within the station's temperature range of 150°F to 850°F.

A button can be preset to your favorite idle temperature, allowing you to instantly activate a feature that saves both tip life and power, even before the station activates it automatically.

Both stations also feature a large (67mm x 29mm) high contrast LCD display that simultaneously shows currently selected temperature and the temperature that has been programmed for each of the three preset buttons. Modern LCD display technology gives users critical information at a glance, while three programmable temperature preset buttons allow quick and easy temperature changes.

**80°** 

POSTON TILT

# **50 degrees of freedom**

# New pencil stand design adjusts to fit each user's personal style

Like the WD1 and WD2 stations, their matching micro soldering pencil stands offer both unmatched style and superior function. No matter which pencil you choose, stands have a four-position tilt adjustment you can set at the angle that feels best to you. Stands also feature an antistatic finish to ensure safety against electrostatic discharge, and three (3) tip storage slots.

# Weller

# **Powerful capability**

# Another Weller breakthrough–Powerful 80-watt performance combined with a new shorter handle



This powerful 80-watt pencil allows rapid production when working with lead-free solder, high-mass components, and other demanding applications. A special silver heating element for low thermal loss and fast recovery make this unit ideal for continuous production work.





**WMP** The accuracy and economy champ

With a tip-to-grip distance of just 37 mm, accuracy is unsurpassed. And the WMP heating element is built into the pencil, not the tip, so replacement tips cost substantially less. This pencil offers super fast heat-up and superior thermal recovery for fast, efficient soldering.

#### Specifications:

WMP Pencil Power Consumption Voltage Heating Element Type

Cord Length Supplied Tip 65 W 24 V Nichrome Wound Silver Spool 4 ft. (1.22 m) NT1 Heater is integrated into the handle, so when the tip dies, the heater lives on



See page 5 for LT and NT Series tips

## Four configurations to give you the most efficient solution:







#### Specifications:

Voltage Footprint Power consumption Temperature range ESD safe Temperature accuracy Temperature stability 120 V (input); 24 V (output) 5.27" x 4.25" x 5.77" (134 x 108 x 147 mm) 85W 150° F - 850° F (50° C - 450° C) Yes  $\pm$  9° F ( $\pm$  5° C)  $\pm$  10° F ( $\pm$  6° C)

## WD2 DUAL CHANNEL POWER UNIT

#### **Specifications:**

Voltage Footprint Power consumption Temperature range ESD safe Temperature accuracy Temperature stability 120 V (input); 24 V (output) 5.27" x 4.25" x 5.77" (134 x 108 x 147 mm) 160W 150° F - 850° F (50° C - 450° C) Yes  $\pm$  9° F ( $\pm$  5° C)  $\pm$  10° F ( $\pm$  6° C)



# WD1001

WD1 SINGLE CHANNEL POWER UNIT WITH WMP 65 WATT SOLDERING PENCIL AND WDH20 SOLDERING PENCIL STAND

#### **Specifications:**

Voltage Footprint Power consumption Temperature range ESD safe Temperature accuracy Temperature stability Stand Pencil 120 V (input); 24 V (output) 5.27" x 4.25" x 5.77" (134 x 108 x 147 mm) 85W 150° F - 850° F (50° C - 450° C) Yes ± 9° F (± 5° C) ± 10° F (± 6° C) WDH20 (Order No. 0051512299) WMP



# WD1002

#### WD1 SINGLE CHANNEL POWER UNIT With WP80 80 Watt Soldering Pencil And Wdh10 Soldering Pencil Stand

#### Specifications:

Voltage Footprint Power consumption Temperature range ESD safe Temperature accuracy Temperature stability Stand Pencil Barrels 120 V (input); 24 V (output) 5.27" x 4.25" x 5.77" (134 x 108 x 147 mm) 85W 150° F - 850° F (50° C - 450° C) Yes  $\pm 9° F (\pm 5° C)$   $\pm 10° F (\pm 6° C)$ WDH10 (Order No. 0051512199) WP80 (Order No. 0052918099) Short (Included with the WP80) (Order No. 0058744845) Long (Optional) (Order No. 0058744846)



LTH

LTK

LTL

I TM

0.031

0.047

0.126 3.20

0.078 2.00

0.79

1.20

#### LT SERIES TIPS FOR WSP80 SOLDERING PENCIL / TINNED WITH LEAD FREE SOLDER

CHISEL									
А В С									
Cat No.	IN.	MM	IN.	MM	IN.	MM			
LTA	0.063	1.60	0.028	0.70	0.380	9.70			
LTB	0.094	2.40	0.031	0.79	0.430	10.90			
LTC	0.126	3.20	0.031	0.79	0.430	10.90			
LTD	0.181	4.60	0.031	0.79	0.430	10.90			

0.016

0.016

0.039

0.047

0.40

0.40

1.00

1.20

0.430

0.730

0.790

0.790

10.90

18.50

20.00

20.00

Cat No.

LT1

LT1L

TT1S

LTAS

LTCS

Cat No.

LTF

LTS

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IN.

0.010

0.008

0.008 0.063

0.126

0.016

ROUND

А

ММ

0.25

0.20

0.20 1.60

3.20

0.40

6

SINGLE FLAT

Α

ММ

1.20

IN.

0.047

С

С

ММ

12.50

Cat No.

Cat No.

NT1X

IN.

LTKN

IN.

0.490

20.00

IN.

0.430

0.980

0.790

0.380

0.430

0.790

← C → A

Weller

		BENT F			
;		A	с		
MM	Cat No.	IN.	MM	IN.	MM
10.90	LT1LX	0.008	0.20	0.980	25.00
25.00	LT1SLX	0.012	0.30	0.760	19.20
20.00	LT1X	0.010	0.25	0.370	9.40
9.70					
10.90					

KNIFE

IN.

0.033

Δ

IN.

0.059

мм

1.50

в

ММ

0.80

С

0.730 18.50

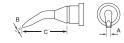
с

MM

8.15

ММ

IN.



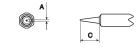
BENT CHISEL в

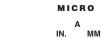
	- P	<b>۱</b>			,	6		
Cat No.	IN.	MM	IN.	MM	IN.	MM		
LT4X	0.047	1.20	0.016	0.40	0.590	15.00		
LTAX	0.063	1.60	0.032	0.80	0.500	12.70		
LTHX	0.031	0.79	0.016	0.40	0.790	20.00		



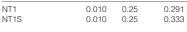
SMI BLADE								
A B C								
Cat No.	IN.	MM	IN.	MM	IN.	MM		
LTSMT01	0.410	10.41	0.022	0.56	0.280	7.11		
LTSMT02	0.620	16.75	0.022	0.56	0.280	7.11		
LTSMT03	0.820	20.83	0.022	0.56	0.280	7.11		

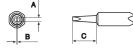
#### **NT SERIES** TIPS FOR WMP MICRO SOLDERING PENCIL / TINNED WITH LEAD FREE SOLDER





Cat No.





С

ММ

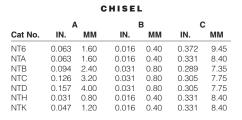
7.40

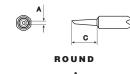
8.45

Cat No.

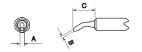
NT4

IN.



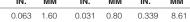




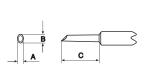


BENT CHISEL









GULL WING FOR DRAG SOLDERING

	Α		E	В		С	
Cat No.	IN.	MM	IN.	MM	IN.	MM	
NTGW	0.079	2.00	0.118	3.00	0.528	13.40	



# Multi-function | PC interface

# High speed regulation for micro soldering tools

NOM

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 WP80 80-watt soldering pencil are compatible.

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.

## WMRH | Ergonomic masterpiece

The WMRH safety rest has been designed with the latest ergonomic considerations in mind. The special geometry of the holder actually relieves the wrist of a substantial amount of strain. The holder can be adjusted with a ball-and-socket joint at the base.







#### **Simple PC Connection**

A USB connector on the rear of the station allows data logging, ISO verification and station control via an external PC. Free software is included.



# WMRP Soldering Pencil

The small and lightweight construction makes work both easy and comfortable.



#### **Stop and Go Tool Holder**

The built-in Stop+Go function in the safety rest reduces the temperature of the tip when the pencil is inserted for longer life.

# Weller

400

## WD2000M 2-80 Watt outputs

The WD2000M allows simultaneous use of both the WMRP micro soldering pencil and the new WMRT micro desoldering tweezers. An ideal package for reworking small component circuit boards.

Silver buttons on the front panel indicate compatibility with silver soldering pencil (WMRP) and rework tweezers (WMRT).

> Both micro-sized handpieces have extremely short heat-up time and optimum heat transfer capability.

# WMRTH | featuring Stop+Go

When you place the WMRT 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.



#### **Dual Outputs**

The WD2M control unit has dual outputs. Two-channels will run up to two 80 watt tools simultaneously.



WMRT Desoldering Tweezers Quickly and easily desolders SMD chip packages as small as 0201.



See page 8 for features on the WMRP soldering pencil

and the WMRT Micro desoldering tweezer

### **Stop and Go Tool Rest**

The built-in Stop+Go function in the safety rest reduces the temperature of the tips when the tweezer is inserted.



# Weller while **Micro-sized handpieces**

## Boasting fast heat-up and recovery times

# WMRP

## **Quick and versatile**

The WMRP soldering pencil has an extremely short heat-up time. 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. The recovery time is minimized. Changing soldering tips is quick, easy, and, most importantly, requires no tools.

#### **Specifications:**

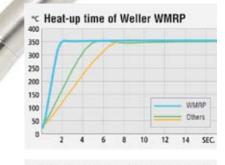
WMRP Pencil Power Consumption Voltage Cord Length Supplied Tip

40W 24 V 4 ft. (1.22 m) RT3 (Order No. 0054460399)



## WMRT | Featuring fast, easy tip cartridge changes

Tip changes can be made quickly without a tip changing tool or grip pad. Easy plug in-plug out design.





# WMRT

## Left and right tweezer legs individually controlled

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.

#### Specifications:

WMRT Tweezer Power Consumption Voltage Cord Length Supplied Tip

80W 24 V 4 ft. (1.22 m) RTW2 (Order No. 0054465299)





# TIPS

#### **RT SERIES** TIPS FOR WMRP MICRO SOLDERING PENCIL

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

#### TIP SETS FOR WMRT SOLDERING TWEEZER

		Model	Description	Dimensions		Order No.
	×07	RTW 1	Conical	0.2 mm	45°	0054465199
and the second s	0,4	RTW 2	Conical	0.7 x 0.4 mm	45°	0054465299
		RTW 3	Blade	3.0 x 0.7 mm	45°	0054465399
	0.7	RTW 4	Blade	6.0 x 0.7 mm	45°	0054465499

## Four configurations to give you the most efficient solution:







## WD1M single channel power unit

#### Specifications:

Voltage Footprint Power consumption Temperature range ESD safe Temperature accuracy Temperature stability 120 V (input); 24 V (output) 5.27" x 4.25" x 5.77" (134 x 108 x 147 mm) 85W 150° F - 850° F (50° C - 450° C) Yes ± 17° F (± 9° C) ± 9° F (± 5° C)

## WD2M DUAL CHANNEL POWER UNIT

#### **Specifications:**

Voltage Footprint Power consumption Temperature range ESD safe Temperature accuracy Temperature stability 120 V (input); 24 V (output) 5.27" x 4.25" x 5.77" (134 x 108 x 147 mm) 160W 150° F - 850° F (50° C - 450° C) Yes ± 17° F (± 9° C) ± 9° F (± 5° C)

# **WD1000M**

WD1M SINGLE CHANNEL POWER UNIT WITH WMRP MICRO SOLDERING PENCIL AND WMRH SOLDERING PENCIL STAND

#### **Specifications:**

Voltage Footprint Power consumption Temperature range ESD safe Temperature accuracy Temperature stability Stand Pencil 120 V (input); 24 V (output) 5.27" x 4.25" x 5.77" (134 x 108 x 147 mm) 85W 150° F - 850° F (50° C - 450° C) Yes ± 17° F (± 9° C) ± 9° F (± 5° C) WMRH (Order No. 0051514599) WMRP (Order No. 0052917199)



# WD2000M

WD2M DUAL CHANNEL POWER UNIT WITH WMRP MICRO SOLDERING PENCIL AND WMRH SOLDERING PENCIL STAND, PLUS WMRT MICRO THERMAL TWEEZER AND WMRTH STAND

#### Specifications:

Voltage Footprint Power consumption Temperature range ESD safe Temperature accuracy Temperature stability Stands

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120 V (input); 24 V (output) 5.27" x 4.25" x 5.77" (134 x 108 x 147 mm) 160W 150° F - 850° F (50° C - 450° C) Yes ± 17° F (± 9° C) ± 9° F (± 5° C) WMRTH (Order No. 0051514599) WMRTH (Order No. 0051514699) WMRP Micro Soldering Pencil (Order No. 0052917199) WMRT Micro Tweezers (Order No. 0051317399)

# Special function screens put you in control

The special function menus on all WD stations allow you to quickly and easily access six advanced features. Scrolling through the menu is simple, with no complicated button-pressing sequences.



Setback Time Allows programming of the number of minutes (1–99), before the temperature sets back to idle mode.



Standby Temperature Allows selection of desired setback temperature, down to 200° F.



Temperature Lockout Allows supervisor to easily set a temperature that cannot be changed by the operator.



F°/C° Switching Allows the temperature display to read in either °F or °C, depending on your process or preference.



**Temperature Offset** 

Allows the display temperature to be adjusted ± 72°F when working with higher mass tips, where the temperature reading can be affected by the mass of the tip.



Auto-Off Time

Allows programming of the number of minutes of inactivity (1–999), before the station powers off automatically.



Campbell<sup>°</sup> Caulk Master<sup>°</sup> Crescent<sup>°</sup> Diamond<sup>°</sup> Erem<sup>°</sup> Kahnetics<sup>°</sup> Lufkin<sup>°</sup> Nicholson<sup>°</sup> Plumb<sup>°</sup> H.K.Porter<sup>°</sup> Weller<sup>°</sup> Wire-Wrap<sup>°</sup> Wiss<sup>°</sup> Xcelite<sup>°</sup>

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