

WSL/WSL2 Digital Soldering Station with WMP Micro Soldering Pencil



WSL includes: *WSLPU* power unit, *WMP* soldering pencil, and *WMPH* stand and sponge.

The Weller Advantage

- The heating element is contained in the pencil rather than the tip so you don't throw away a good heater every time you wear out a tip. **Gives you substantial savings on tip costs compared to the competition**
- Micro soldering pencil with the shortest tip-to-grip distance (37mm) on the market today gives you excellent control and puts you closer to the work



WSL2 includes: *WSL2PU* power unit, *WMP* soldering pencil, *WMPH* stand and sponge, *WSP80* soldering pencil *WHP81* stand and sponge.

Additional Product Features and Benefits:

- Super-fast heat-up saves you time
- Superior thermal recovery allows fast, efficient soldering
- Tips are secured to the pencil by use of a threaded end, which eliminates the need for a barrel nut
- Iron is fitted with a non-burnable silicone rubber cord for safety
- The standard setback feature saves tip life and power. If the soldering pencil is not used for 20 minutes, the temperature is reduced to 300°F (150°C). After 60 minutes of inactivity, the unit is switched off
- The station's display is programmable using the optional WCB1 control module. Allows you to set temperature lock-out, set-back, and °F to °C switching
- Stations also support the WTA50 Thermal Tweezer, WHP80 Hot Plate, and WST20 Thermal Wire Stripper
- ESD safe to protect sensitive components
- UL and cUL listed
- Use new NT series tips found on page 7

Station	WSL and WSL2	Pencil	WMP	WSP80
Voltage	120V (input); 24V (output)	Power Consumption	65W	80W
Power Consumption	95W	Heating Element Type	Nichrome Wound	Silver Spool
Temperature Range	150°F - 850°F (66°C - 454°C)	Iron Cord Length	4 ft. (1.22 m)	4 ft. (1.22 m)
Footprint	6 1/2 X 4 1/2 X 4 IN (165 X 114 X 102 MM)	Supplied Tip	NT1	LTB
Weight	7.0 lb. (3.18 kg)	Iron Stand	WMPH	WPH81
Temperature Accuracy	+/- 9°F (+/-5°C)			
Temperature Stability	+/-10°F (6°C)			
ESD Safe?	Yes			

Applications:

- Production, rework, and repair of through hole and SMT boards. Contact removal of IC's and QFP's using specialty SMT tips. Lead-free solder applications. Most ground planes and multi-layered boards.



The short (37mm) tip-to-grip distance puts you close to the work.

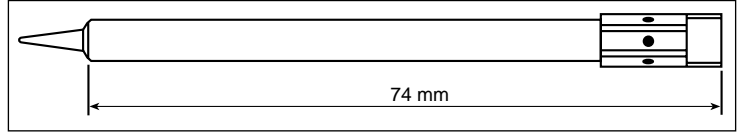


A SMT blade tip is ideal for soldering the leads of a QFP.



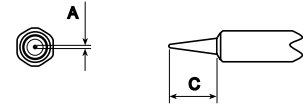
The heater is integrated into the handle. When the tip dies, the heater lives on.

NT Series Tips for WMP Micro Soldering Pencil



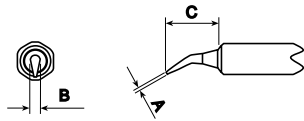
The Weller Advantage

- The heating element is contained in the pencil rather than the tip so you don't throw away a good heater every time you wear out a tip
- Gives you substantial savings on tip costs compared to the competition



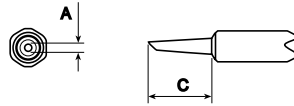
Micro

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
NT1	0.010	0.25	--	--	0.291	7.40
NT1S	0.010	0.25	--	--	0.333	8.45



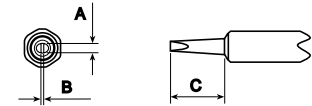
Bent Round

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
NT1X	0.016	0.40	0.063	1.60	0.321	8.15



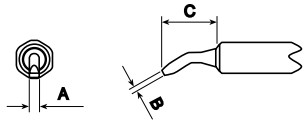
Round

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
NT4	0.047	1.20	--	--	0.390	9.90



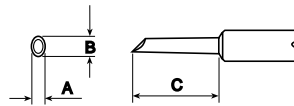
Chisel

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
NT6	0.063	1.60	0.016	0.40	0.372	9.45
NTA	0.063	1.60	0.016	0.40	0.331	8.40
NTB	0.094	2.40	0.031	0.80	0.289	7.35
NTC	0.126	3.20	0.031	0.80	0.305	7.75
NTD	0.157	4.00	0.031	0.80	0.305	7.75
NTH	0.031	0.80	0.016	0.40	0.331	8.40
NTK	0.047	1.20	0.016	0.40	0.331	8.40



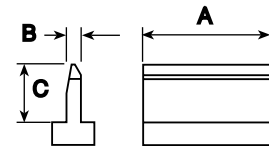
Bent Chisel

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
NTAX	0.063	1.60	0.031	0.80	0.339	8.61



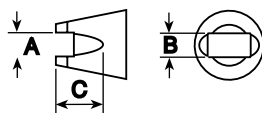
Cylindrical

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
NTGW	0.079	2.00	0.118	3.00	0.528	13.40



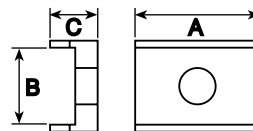
SMT Blade

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
NTSMT01	0.410	10.41	0.022	0.56	0.280	7.11
NTSMT02	0.620	16.75	0.022	0.56	0.280	7.11
NTSMT03	0.820	20.83	0.022	0.56	0.280	7.11



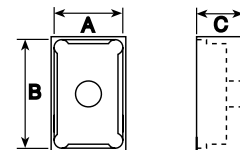
SMT Slot

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
NTSMT04	0.070	1.78	0.195	4.95	0.070	1.78
NTSMT05	0.060	1.52	0.090	2.29	0.070	1.78
NTSMT06	0.100	2.54	0.068	1.73	0.055	1.40
NTSMT07	0.090	2.29	0.190	4.53	0.070	1.78



SMT Tunnel

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
NTSMT08	0.180	4.57	0.200	5.08	0.090	2.29
NTSMT09	0.410	10.41	0.200	5.08	0.090	2.29
NTSMT10	0.450	11.49	0.270	6.86	0.090	2.29
NTSMT11	0.520	13.21	0.375	9.53	0.125	3.18
NTSMT12	0.620	15.75	0.375	9.53	0.125	3.18
NTSMT13	0.720	18.27	0.375	9.53	0.125	3.18
NTSMT14	0.740	18.80	0.365	9.02	0.125	3.18



SMT Quad

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
NTSMT15	0.105	2.67	0.303	7.70	0.150	3.81
NTSMT16	0.410	10.41	0.410	10.41	0.150	3.81
NTSMT17	0.500	12.70	0.500	12.70	0.150	3.81
NTSMT18	0.540	13.72	0.340	8.60	0.150	3.81
NTSMT19	0.750	19.05	0.750	19.05	2.350	5.96
NTSMT20	0.915	23.24	0.680	17.27	0.150	3.81
NTSMT21	0.965	24.51	0.965	24.51	2.350	5.96
NTSMT22	1.155	29.59	1.165	29.59	2.350	5.96

WSD81/WSD161 Digital Silver Series Soldering Stations



WSD81 includes: *WSD81PU* power unit, *WSP80* soldering pencil, and *WPH81* stand and sponge.

The Weller Advantage

- You experience immediate heat from the combination of a unique silver heating element and tip configuration - allows faster, more efficient, soldering
- High output pencil allows you to work with lead-free solder while keeping tip costs low
- The WSD161 operates on two independently controlled channels. You can operate two 80-watt tools simultaneously



WSD161 includes the power unit only. Soldering pencils and stands are sold separately.

Additional Product Features and Benefits:

- IMPROVED - Software has been upgraded to allow the power unit to cycle faster, giving you improved response time
- IMPROVED - A standard setback feature has been added to save tip life and power. If the soldering pencil is not used for 20 minutes, the temperature is reduced to 300°F (150°C). After 60 minutes of inactivity, the unit is switched off
- 80-watts of controlled power allows you to work on high-mass components and boards
- Fast recovery and minimal temperature loss when making fast connections, makes this station perfect for continuous production soldering
- Programmable using the optional WCB1 control module - allows for temperature lock-out (process control), temperature set-back (extended tip life) and °F to °C conversion
- Irons fitted with a non-burnable silicone rubber cord for safety
- UL and cUL listed
- ESD safe to protect sensitive components
- Uses economical LT series tips (page 9), which are now tinned using LEAD-FREE SOLDER to comply with changing demands
- Stations also support the WTA50 Thermal Tweezer, WHP80 Hot Plate, and WST20 Thermal Wire Stripper

Station	WSD81	WSD161	Pencil	WSP80
Voltage	120V (input); 24V (output)	120V (input); 24V (output)	Power Consumption	80W
Power Consumption	95W	150W	Heating Element Type	Silver Spool
Temperature Range	150°F - 850°F (66°C - 454°C)	300°F - 850°F (150°C - 454°C)	Iron Cord Length	4 ft. (1.22 m)
Footprint	6 1/2 X 4 1/2 X 4 IN (165 X 114 X 102 CM)	6 1/2 X 4 1/2 X 4 IN (165 X 114 X 102 MM)	Supplied Tip	LTB
Weight	7.0 lb. (3.18 kg)	7.0 lb. (3.18 kg)	Iron Stand	WPH81
Temperature Accuracy	+/- 9°F (+/-5°C)	+/- 9°F (+/-5°C)		
Temperature Stability	+/-10°F (6°C)	+/-10°F (6°C)		
ESD Safe?	Yes	Yes		

Applications:

- Production, rework, and repair of through hole and SMT boards. Contact removal of IC's and QFP's using specialty SMT tips. Lead-free solder applications. Heavy ground planes and multi-layered boards.



The WSP80 in use on a surface mount PCB.

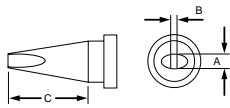


The WCB1 control module is used to set temperature lockout, set back, and °F to °C conversion.



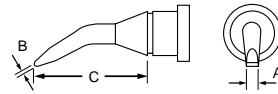
A SMT quad tip is used to desolder a quad flat pack.

LT Series Tips for WSP80 Soldering Pencil



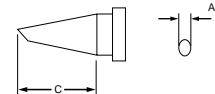
Chisel

Cat. No.	A		B		C	
	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
LTH	0.031	0.79	0.016	0.40	0.430	10.90
LTK	0.047	1.20	0.016	0.40	0.730	18.50
LTL	0.039	1.00	0.039	1.00	0.790	20.00
LTM	0.126	3.20	0.047	1.20	0.790	20.00



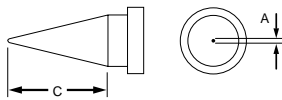
Bent Chisel

Cat. No.	A		B		C	
	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	0.024	0.60	0.016	0.40	0.790	20.00



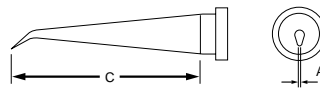
Single Flat

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
LT4W	0.047	1.20	--	--	0.590	15.00
LTF	0.047	1.20	--	--	0.490	12.50



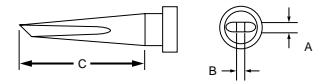
Round

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
LT1	0.010	0.25	--	--	0.430	10.90
LT1L	0.008	0.20	--	--	0.980	25.00
LT1S	0.016	0.40	--	--	0.790	20.00
LTAS	0.63	1.60	--	--	0.380	9.70
LTCS	0.126	3.20	--	--	0.430	10.90
LTS	0.016	0.40	--	--	0.790	20.00



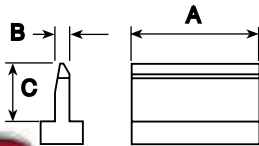
Bent Round

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
LT1LX	0.008	0.20	--	--	0.980	25.00
LT1SLX	0.012	0.30	--	--	0.760	19.20
LT1X	0.010	0.25	--	--	0.370	9.40



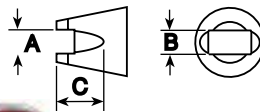
Knife

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
LTKN	0.059	1.50	0.033	0.80	0.730	18.50



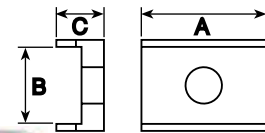
SMT Blade

Cat. No.	A		B		C	
	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



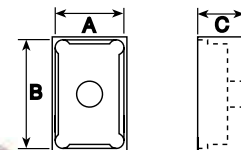
SMT Slot

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
LTSMT04	0.070	1.78	0.195	4.95	0.070	1.78
LTSMT05	0.060	1.52	0.090	2.29	0.070	1.78
LTSMT06	0.100	2.54	0.068	1.73	0.055	1.40
LTSMT07	0.090	2.29	0.190	4.53	0.070	1.78



SMT Tunnel

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
LTSMT08	0.180	4.57	0.200	5.08	0.090	2.29
LTSMT09	0.410	10.41	0.200	5.08	0.090	2.29
LTSMT10	0.450	11.49	0.270	6.86	0.090	2.29
LTSMT11	0.520	13.21	0.375	9.53	0.125	3.18
LTSMT12	0.620	15.75	0.375	9.53	0.125	3.18
LTSMT13	0.720	18.27	0.375	9.53	0.125	3.18
LTSMT14	0.740	18.80	0.365	9.02	0.125	3.18



SMT Quad

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
LTSMT15	0.105	2.67	0.303	7.70	0.150	3.81
LTSMT16	0.410	10.41	0.410	10.41	0.150	3.81
LTSMT17	0.500	12.70	0.500	12.70	0.150	3.81
LTSMT18	0.540	13.72	0.340	8.60	0.150	3.81
LTSMT19	0.750	19.05	0.750	19.05	2.350	5.96
LTSMT20	0.915	23.24	0.680	17.27	0.150	3.81
LTSMT21	0.965	24.51	0.965	24.51	2.350	5.96
LTSMT22	1.155	29.59	1.165	29.59	2.350	5.96