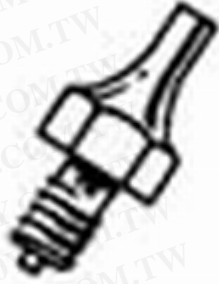


勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
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.093"OD x .046" ID x .5" Reach Threaded Triplet for Desoldering Tools



Product Details

Catalog No.	DS113
UPC Code	037103474445
Fits Tool(s)	DS80/DS217/DS227/DS228/DS229
Tip Style	Thread In
Tip Width O/D	.093 in./ 2.36 mm
Tip Thickness/Height/ I/D	.046 in./1.17 mm
Reach/Length	.5 in./12.7 mm
Packaging	Peg Hook/Retail Packaging
Literature	550147
Tech. Spec.	Solder_Safety_Warnings.pdf
Lineart	DS113
Low Res. Image	DS113_100
High Res. Image	DS113_300
Stock Item	Normal Stock Item

Product Features:

- Threaded triplet for desoldering tools
- Plated for contacting solder
- Stainless steel liner brazed to triplet for better heat transfer
- Entire triplet is iron, nickel and chrome plated, then tinned
- Chrome plating eliminates need to apply anti-seizing compound on threads

Weller® Soldering Table of Contents

Founded in 1945, Weller® has become the world's leading supplier of professional quality soldering equipment, including the famous Weller® temperature controlled irons and soldering guns. Weller® also makes advanced soldering and desoldering stations, SMT equipment and irons for sophisticated industrial requirements, plus a series of handy soldering kits for home craftsmen, hobbyists and light industry.

Contents	Page No.
WES Series Soldering Stations	3 - 4
WSL Series Soldering Stations	6
WSD81 & WSD161 Silver Series Soldering Stations	8
MT1500 Microtouch™ Soldering Station	10
WTCPT Temperature Controlled Soldering Station	12
Desoldering Stations, Shop Air	14
Desoldering Stations, Self-contained	15
Soldering/Desoldering Stations, Self-contained	16
WRS Series Rework and Repair Systems	17 - 20
WQB3000 BGA/QFP Rework Station	22
Hot Air Stations, Shop Air	24
Hot Air Stations, Self-contained	25 - 27
ET Series Tips	5
NT Series Tips	7
LT Series Tips	9
MT Series Tips	11
PT Series Tips	13
WT Series Tips	21
DS Series Tiplets	16
Nozzles for Hot Air Pencils	21
Nozzles and Templates WQB3000	23
Nozzles for WHA500 and WHA2000	28
Weller Numerical Index	29



WES51 Analog Soldering Station

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The Weller Advantage

- Innovative heater and sensor combination gives you quick heat-up and rapid temperature recovery
- Wireless temperature lockout to prevent operators from raising the temperature to levels higher than specified for the board or component. Gives you control over the process
- Station automatically powers down after 90 minutes of inactivity to prolong tip life and save power



WES51 includes: WES51PU power unit, PES51 soldering pencil with ETA tip, and PH50 stand and sponge.

Additional Product Features and Benefits:

- IMPROVED plug on the PES51 iron and new receptacle on the WES51PU power unit for easier iron replacement
- Designed for continuous production soldering
- Slim, comfortable pencil reduces operator fatigue
- Tip temperature offset capability which provides the user with the capability of resetting station temperature readings to match in tip sizes and styles
- Iron is fitted with a non-burnable silicon rubber cord for safety
- UL and cUL listed
- ESD safe to protect sensitive components
- Use ET series tips found on page 5

Station	WES51	Pencil	PES51
Voltage	120V (input); 24V (output)	Power Consumption	50W
Temperature Range	350°F - 850°F (177°C - 454°C)	Heating Element Type	Nichrome Wound; Fiberglass and ceramic insulated
Footprint	5.9 X 4.5 X 3.6 IN (150 X 114 X 91 MM)	Iron Cord Length	4 ft. (1.22 m)
Weight	3.93 lb. (1.78 kg)	Supplied Tip	ETA
Temperature Accuracy	+/- 9°F (+/-5°C)	Iron Stand	PH50
Temperature Stability	+/-10°F (6°C)		
ESD Safe?	Yes		

Applications:

- Production, rework, and repair of through hole and SMT boards. Most ground planes and multi-layer boards.



The PES51 is perfect for production soldering, rework, or repair.



The new connector and plug on the WES51 is an improvement over the WES50

WESD51 Digital Soldering Station

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[Http://www.100y.com.tw](http://www.100y.com.tw)



WESD51 includes: WESD51PU power unit, PES51 soldering pencil with ETA tip, and PH50 stand and sponge.

The Weller Advantage

- Innovative heater and sensor combination gives you quick heat-up and rapid temperature recovery
- Wireless temperature lockout to prevent operators from raising the temperature to levels higher than specified for the board or component. Gives you control over the process
- Station automatically powers down after 90 minutes of inactivity to prolong tip life and save power

Additional Product Features and Benefits:

- Microprocessor controlled with digital LED display allows you to read temperature setting and actual tip temperature
- Designed for continuous production soldering
- Can switch between °F and °C
- Slim, comfortable pencil reduces operator fatigue
- Tip temperature offset capability which provides the user with the capability of resetting station temperature readings to match in tip sizes and styles
- Iron is fitted with a non-burnable silicon rubber cord for safety
- UL and cUL listed
- ESD safe to protect sensitive components
- Use ET series tips found on page 5

Station	WESD51	Pencil	PES51
Voltage	120V (input); 24V (output)	Power Consumption	50W
Temperature Range	350°F - 850°F (177°C - 454°C)	Heating Element Type	Nichrome Wound; Fiberglass and ceramic insulated
Footprint	5.9 X 4.5 X 3.6 IN (150 X 114 X 91 MM)	Iron Cord Length	4 ft. (1.22 m)
Weight	3.93 lb. (1.78 kg)	Supplied Tip	ETA
Temperature Accuracy	+/- 9°F (+/-5°C)	Iron Stand	PH50
Temperature Stability	+/-10°F (6°C)		
ESD Safe?	Yes		

Applications:

- Production, rework, and repair of through hole and SMT boards. Most ground planes and multi-layer boards.



The PES51 can handle most general purpose hand soldering applications.

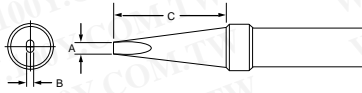


The wireless temperature lockout gives you control over the process.

ET Series Tips for PES51 Soldering Pencil

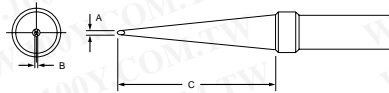
The Weller Advantage

- The sensor hole in the base of the tip is fitted with a stainless steel liner to prevent the tip from seizing to the sensor



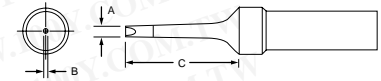
Screwdriver

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
ETA*	0.062	1.60	0.032	0.81	0.625	15.90
ETB*	0.093	2.40	0.020	0.51	0.625	15.90
ETC*	0.125	3.20	0.027	0.69	0.625	15.90
ETD	0.187	4.80	0.035	0.89	0.625	15.90
ETH	0.031	0.80	0.019	0.48	0.625	15.90



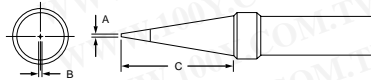
Long Screwdriver

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
ETJ	0.031	0.80	0.012	0.30	1.000	25.40
ETK*	0.046	1.20	0.026	0.66	1.000	25.40
ETL	0.078	2.00	0.027	0.69	1.000	25.40
ETM	0.125	3.20	0.037	0.94	1.000	25.40



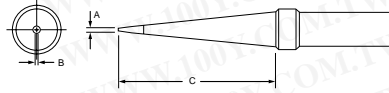
Narrow Screwdriver

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
ETR	0.062	1.60	0.044	1.12	0.625	15.90



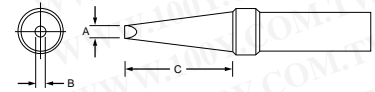
Conical

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
ETP*	0.031	0.80	0.012	0.30	0.625	15.90
ETT	0.024	0.60	0.036	0.91	0.625	15.90



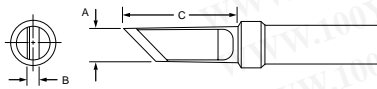
Long Conical

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
ETO*	0.031	0.80	0.044	1.12	1.000	25.40
ETS*	0.015	0.40	--	--	1.000	25.40



Single Flat

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
ETAA	0.062	1.60	0.040	1.02	0.625	15.90
ETBB	0.093	2.40	0.032	0.81	0.625	15.90
ETCC	0.125	3.20	0.032	0.81	0.625	15.90
ETDD	0.187	4.80	0.032	0.81	0.625	15.90
ETU	0.015	0.40	--	--	0.700	17.80
ETV	0.024	0.60	--	--	0.700	17.80



Knife

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
ETKN	0.180	4.57	0.064	1.63	0.625	15.90

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* Indicates available bulk (100 multiples only)

WSL/WSL2 Digital Soldering Station with WMP Micro Soldering Pencil

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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.

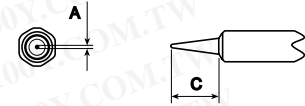
NT Series Tips for WMP Micro Soldering Pencil

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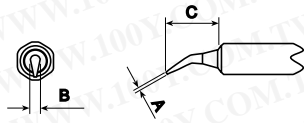
The Weller Advantage

- 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



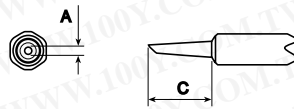
Micro

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



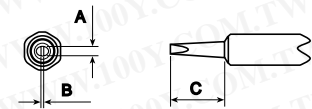
Bent Round

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



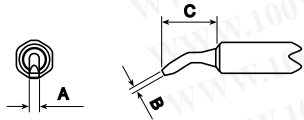
Round

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



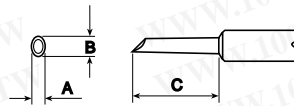
Chisel

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



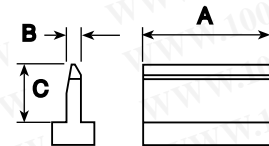
Bent Chisel

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



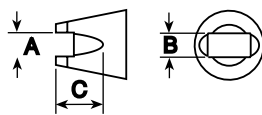
Cylindrical

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



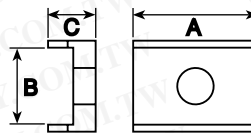
SMT Blade

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



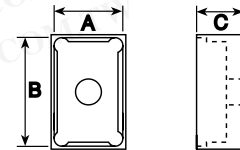
SMT Slot

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



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[Http://www.100y.com.tw](http://www.100y.com.tw)

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



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

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

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 is in use on a surface mount PCB.

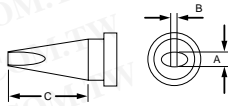


The WCB1 control module is used to set temperature lockout, set back, and °F to °C conversion.



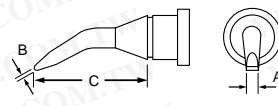
A SMT quad tip is used to desolder a quad flat pack.

LT Series Tips for WSP80 Soldering Pencil



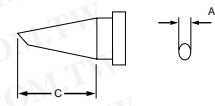
Chisel

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



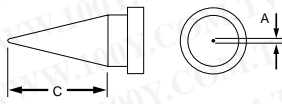
Bent Chisel

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



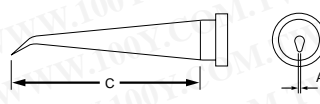
Single Flat

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



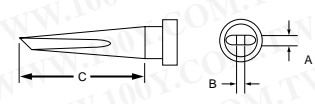
Round

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



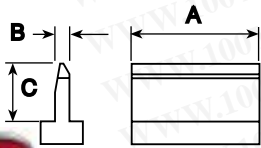
Bent Round

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



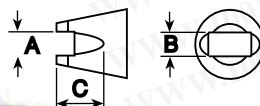
Knife

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



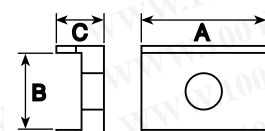
SMT Blade

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

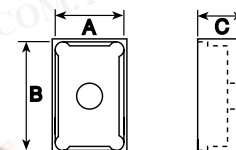
Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
LTSMT04	0.070	1.78	0.195	4.95	0.070	1.78
LTSMT05	0.060	1.52	0.090	2.29	0.070	1.78
LTSMT06	0.100	2.54	0.068	1.73	0.055	1.40
LTSMT07	0.090	2.29	0.190	4.53	0.070	1.78



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

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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

MT1500 Microtouch™ Soldering Station



The Weller Advantage

- An integrated heater and tip design gives you immediate heat for faster soldering. Heats up to set temperature in as little as 3 seconds
- The Touch Mode extends tip life and reduces operating costs by automatically powering down the pencil upon placing in the stand, and quickly adjusts to set temperature when the handle is touched again
- Unconditional five year warranty on the station and hand piece to ensure your complete satisfaction

MT1500 includes: MT1501 soldering pencil (no tip), and MT1502 stand, and leather tip-changing pad.

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Additional Product Features and Benefits:

- Quick tip change system requires no tools, saves you time and money
- Superior thermal recovery improves performance in all applications
- Three operating modes increases flexibility:
 Continuous - tip stays at set temperature until turned off
 Idle - station automatically sets back the temperature too 400°F (204°C) after 1 minute of inactivity
 Touch Mode - station automatically powers the tool down upon release of handle and almost instantly adjusts to desired temperature when handle is touched again
- Iron is fitted with a non-burnable silicon rubber cord for safety
- UL and cUL listed
- ESD safe to protect sensitive components
- Use MT series tips found on page 11

Station	MT1500	Pencil	MT1501
Voltage	120V (input); 24V/12V/6V (output) **	Iron Cord Length	4 ft. (1.22 m)
Power Consumption	150W	Supplied Tip	Tip Not Included
Temperature Range	400°F - 800°F (204°C - 454°C)	Iron Stand	MT1502
Footprint	6 5/8 X 4 1/8 X 3 7/8 IN (16.8 X 20.6 X 9.8 CM)		
Weight	8.2 lb. (3.72 kg)		
Temperature Accuracy	+/- 9°F (6°C)		
Temperature Stability	+/-10°F (6°C)		
ESD Safe?	Yes		

** Tip Specific

Applications:

- Production, rework, and repair of through hole and SMT boards. Lead-free solder applications. Heavy ground planes and multi-layer boards.



The MT1500 can handle the most demanding applications.

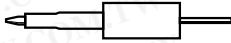


The MT1500 soldering pencil at work on a SMT component.

MT Series Tips for MT1501 Soldering Pencil

Tip Dimension Legend:

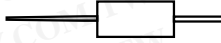
- A = Tip Diameter
- B = Tip Thickness
- C = Tip Reach



Screwdriver

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
MT211	0.045	1.14	0.015	0.38	1.00	25.40
MT212*	0.045	1.14	0.015	0.38	1.00	25.40
MT301	0.047	1.19	0.015	0.38	0.02	0.51
MT604	0.060	1.52	0.025	0.64	0.39	9.78
MT601	0.070	1.78	0.023	0.58	0.39	9.78
MT602	0.100	2.54	0.030	0.76	0.39	9.78
MT610	0.200	5.08	0.030	0.76	0.35	8.89

* Non-wetting



Conical

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
MT302	0.015	0.38	--	--	0.02	0.51
MT303	0.015	0.38	--	--	0.32	8.13
MT606	0.016	0.41	--	--	0.53	13.46
MT613	0.020	0.51	--	--	0.52	13.21
MT609	0.023	0.58	--	--	0.60	15.24
MT202	0.030	0.76	--	--	1.00	25.40
MT203†	0.030	0.76	--	--	1.00	25.40
MT204*	0.030	0.76	--	--	1.00	25.40

* Non-wetting
† Mil-Spec



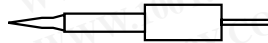
Bent Conical

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
MT605	0.016	0.41	--	--	0.56	14.22
MT603	0.020	0.51	--	--	0.60	15.24



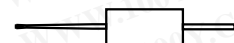
Chisel

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
MT611	0.060	1.52	0.010	0.25	0.61	15.49
MT614	0.100	2.54	0.015	0.38	0.19	4.38



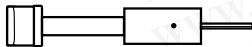
Bevel

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
MT607	0.020	0.51	0.010	0.25	0.53	13.50
MT608	0.040	1.02	0.020	0.51	0.56	14.22



Micro

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
MT221	0.031	0.79	--	--	1.00	25.40



SMT Blade

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
MT617	0.410	10.41	0.022	0.56	0.28	7.11
MT1205	0.820	20.83	0.022	0.56	0.28	7.11



Calibration

Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
MT220	0.030	0.76	--	--	--	--
MT620	0.063	1.59	0.023	0.58	0.39	9.78

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WTCPT Temperature Controlled Soldering Station



The Weller Advantage

- Utilizes unique closed loop method of controlling maximum tip temperature - protects temperature sensitive components
- A ferromagnetic temperature sensor in the tip controls tip temperature - no adjustments are necessary. Provides process control

WTCPT includes: *PU120T* power unit, *TC201T* soldering pencil, and *PH1201ESD* stand and sponge.

Applications:

- Production, rework, and repair of through hole and SMT boards. Some ground planes and multi-layer boards. Repetitive soldering at a consistent temperature.

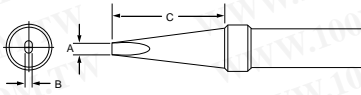
Additional Product Features and Benefits:

- A lighted rocker switch indicates on/off status
- Quick disconnect plug for soldering iron allows fast iron change
- PT series tips are available in three standard temperature ranges: 600°F, 700°F, 800°F. See page 13
- Power unit features impact resistant plastic for durability
- ESD safe to protect sensitive components
- UL and cUL listed

Station	WTCPT	Pencil	TC201T
Voltage	120V (input); 24V (output)	Power Consumption	42W
Power Consumption	60W	Heating Element Type	Nichrome Wound, Plug-in
Temperature Range	600°F - 800°F (316°C - 427°C)	Iron Cord Length	4 ft. (1.22 m)
Footprint	4 1/2 X 5 15/16 X 3 5/8 IN (114 X 150 X 91MM)	Supplied Tip	PTA7
Weight	3.9 lb. (1.78 kg)	Iron Stand	PH1201ESD
ESD Safe?	Yes		

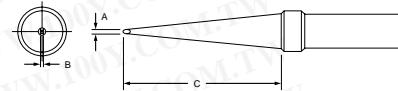
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PT Series Tips for TC201T Soldering Pencil



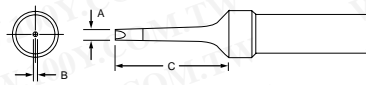
Screwdriver

Cat. No.	Cat. No.	Cat. No.	A		B		C	
			in.	mm	in.	mm	in.	mm
600°	700°	800°						
PTH6	PTH7	PTH8	0.031	0.79	0.019	0.48	0.62	15.87
PTA6	PTA7*	PTA8*	0.062	1.57	0.032	0.81	0.62	15.87
PTB6	PTB7*	PTB8*	0.093	2.38	0.020	0.51	0.62	15.87
PTC6	PTC7*	PTC8*	0.125	3.17	0.027	0.69	0.62	15.87
PTD6	PTD7	PTD8*	0.187	4.74	0.035	0.89	0.62	15.87
--	PTE7	PTE8	0.234	5.95	0.042	1.07	0.62	15.87



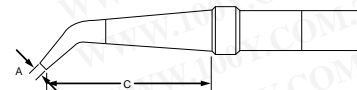
Long Screwdriver

Cat. No.	Cat. No.	Cat. No.	A		B		C	
			in.	mm	in.	mm	in.	mm
600°	700°	800°						
--	PTJ7	PTJ8	0.031	0.79	0.012	0.30	1.00	25.40
PTKX6	--	--	0.046	1.17	0.030	0.76	1.00	25.40
PTK6	PTK7*	PTK8	0.046	1.19	0.026	0.66	1.00	25.40
--	PTL7	PTL8	0.078	1.98	0.027	0.69	1.00	25.40
--	PTM7	PTM8	0.125	3.17	0.037	0.94	1.00	25.40



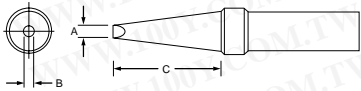
Narrow Screwdriver

Cat. No.	Cat. No.	Cat. No.	A		B		C	
			in.	mm	in.	mm	in.	mm
600°	700°	800°						
PTR6	PTR7	PTR8	0.062	1.58	0.044	1.12	0.62	15.87



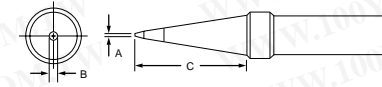
Slotted Bent

Cat. No.	Cat. No.	Cat. No.	A		B		C	
			in.	mm	in.	mm	in.	mm
600°	700°	800°						
--	PTZ7	--	0.020	0.50	--	--	1.00	25.40



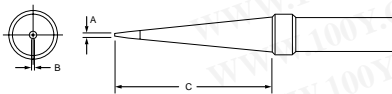
Single Flat

Cat. No.	Cat. No.	Cat. No.	A		B		C	
			in.	mm	in.	mm	in.	mm
600°	700°	800°						
--	PTAA7	PTAA8	0.062	1.57	0.040	1.42	0.62	15.87
--	PTBB7	PTBB8	0.093	2.38	0.032	0.81	0.62	15.87
--	PTCC7	PTCC8	0.125	3.17	0.032	0.81	0.62	15.87
--	PTDD7	PTDD8	0.187	4.74	0.032	0.81	0.62	15.87



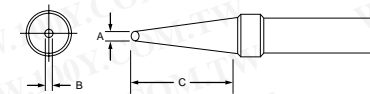
Conical

Cat. No.	Cat. No.	Cat. No.	A		B		C	
			in.	mm	in.	mm	in.	mm
600°	700°	800°						
--	--	PTT8	0.025	0.63	0.036	0.91	0.62	15.87
PTP6	PTP7*	PTP8*	0.031	0.79	0.012	0.30	0.62	15.87



Long Conical

Cat. No.	Cat. No.	Cat. No.	A		B		C	
			in.	mm	in.	mm	in.	mm
600°	700°	800°						
PTS6	PTS7	PTS8	0.015	0.39	--	--	1.00	25.40
PTO6	PTO7*	PTO8*	0.031	0.79	0.044	1.12	1.00	25.40



Conical Flat

Cat. No.	Cat. No.	Cat. No.	A		B		C	
			in.	mm	in.	mm	in.	mm
600°	700°	800°						
--	PTF7	PTF8	0.047	1.19	0.033	0.84	0.62	15.87

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* Indicates available bulk (100 multiples only)

WDD81V(IL) Digital Shop Air Desoldering Stations



WDD81VIL includes: power unit, *DSV80* in-line desoldering pencil, and *AKV* stand.

DS80 desoldering pencil is available with the *WDD81V* desoldering station and comes with the *AK20* stand.

The Weller Advantage

- 80 watts of power for faster heat up and better performance even on heavy ground planes and multi-layer boards
- Higher power means less time spent on the PCB and less potential for damaging components
- Vacuum delay feature on the desoldering tool allows the solder to reach the solder collection chamber before the vacuum is shut off to avoid clogging

Additional Product Features and Benefits:

- High performance desoldering tool for safely and efficiently removing through hole components from PCB's
- Features digital process control for exact temperature set - gives you control over the process
- Microprocessor circuitry automatically recognizes other Weller soldering accessories and provides the optimal setting for that tool
- Uses fast-response shop air
- WDD81VIL comes with *DSV80* in-line desoldering tool with internal solder collection chamber - ideal for vertical desoldering
- WDD81V comes with *DS80* desoldering pencil with external solder collection chamber - ideal for horizontal desoldering
- ESD safe to protect sensitive components
- 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
- Uses *DS* series desoldering tiplests found on page 16

Station	WDD81V and WDD81VIL	Pencil	DS80	DSV80
Voltage	120V (input); 24V (output)	Power Consumption	80W	80W
Power Consumption	95W	Heating Element Type	Nichrome Wound	Nichrome Wound
Temperature Range	122°F - 842°F (50°C - 450°C)	Iron Cord Length	4 ft. (1.22 m)	4 ft. (1.22 m)
Footprint	7.1 X 4.53 X 4 IN (180 X 115 X 101 MM)	Supplied Tiplest	DS112	DS112
Weight	4.75 lb. (2.16 kg)	Iron Stand	AK20	AKV
Pump Type	Compressed Air Converter			
Vacuum Pressure	21 in. HG (0.8 Bar)			
Temperature Stability	+/-10°F (6°C)			
ESD Safe?	Yes			

Applications:

- Rework and repair of through hole boards. Lead-free solder applications.



The WDD81V is shown here with the DS80 desoldering pencil.

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WRS1001(2) Digital Self-contained Desoldering Stations



WRS10011 contains: WRS1001 control unit, DSV80 in-line desoldering pencil with internal solder collection chamber, and AKV stand.

WRS10012 contains: WRS1001 control unit, DS80 desoldering pencil with external solder collection chamber, and AK20 stand.

Additional Product Features and Benefits:

- Vacuum is generated with a self-contained pump. The pump also generates air should you want to use the optional HAP1 hot air pencil
- Features digital process control for exact temperature set - gives you control over the process
- WRS10011 comes with DSV80 in-line desoldering tool with internal collection chamber - ideal for vertical desoldering
- WRS10012 comes with DS80 desoldering pencil with external solder collection chamber - ideal for horizontal desoldering
- Station also supports Silver Series soldering pencils WSP80 and WMP Micro Pencil for added flexibility
- Programable using the optional WCB1 control module - allows for temperature lock-out (process control), temperature set-back (extended tip life) and °F to °C conversion
- Uses DS series desoldering tiptlets found on page 16
- ESD safe to protect sensitive components

The Weller Advantage

- 80 watts of power for faster heat up and better performance even on heavy ground planes and multi-layer boards
- Higher power means less time spent on the PCB and less potential for damaging components
- Vacuum delay feature on the desoldering tool allows the solder to reach the solder collection chamber before the vacuum is shut off to avoid clogging

Station	WRS10011 and WRS10012	Pencil	DS80	DSV80
Voltage	120V (input); 24V (output)	Power Consumption	80W	80W
Power Consumption	175W	Heating Element Type	Nichrome Wound	Nichrome Wound
Temperature Range	150°F - 980°F (66°C - 511°C)	Iron Cord Length	4 ft. (1.22 m)	4 ft. (1.22 m)
Footprint	9.5 X 10.6 X 4.1 IN (241 X 269 X 104 MM)	Supplied Tiptlet	DS112	DS112
Weight (Power Unit Only)	12.9 lb. (5.85 kg)	Iron Stand	AK20	AKV
Pump Type	Rotary Vane			
Air Flow Volume	1 l/min. - 10 l/min.			
Temperature Accuracy	+/-50°F (30°C)			
Temperature Stability	+/-10°F (6°C)			
ESD Safe?	Yes			

Applications:

- Rework and repair of through hole boards. Lead-free solder applications.

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[Http://www.100y.com.tw](http://www.100y.com.tw)



DSV80 in-line desoldering tool with internal solder collection chamber



DS80 desoldering pencil with external solder collection chamber

WRS3000V1(2) Self-contained Solder/Desoldering Stations



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The Weller Advantage

- 80 watts of power for faster heat up and better performance even on heavy ground planes and multi-layer boards
- Higher power means less time spent on the PCB and less potential for damaging components
- Vacuum delay feature on the desoldering tool allows the solder to reach the solder collection chamber before the vacuum is shut off to avoid clogging
- 300 watts of total power over three independently controlled channels (100 watts per channel) plus air and vacuum ports allows you to use up to three 80/100-watt tools simultaneously

WRS3000V1 comes with WRS3000 power unit, DSV80 in-line desoldering pencil, AKV stand and sponge, WSP80 soldering pencil, WPH80 stand and sponge.



DS80 desoldering pencil is available with the WRS3000V2 desoldering station and comes with the AK20 stand.

Applications:

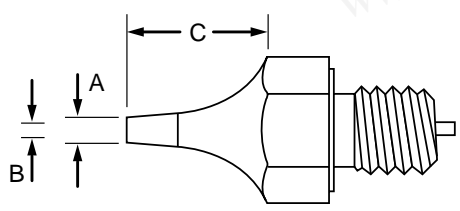
- Rework and repair of mixed technology boards. Lead-free solder applications. Contact removal of IC's and QFP's using specialty SMT tips with the WSP80. Heavy ground planes and multi-layer boards.

Additional Product Features and Benefits:

- Built-in pump provides both vacuum for the desoldering tool and air for the optional HAP1 hot air tool
- Microprocessor with digital read-out gives you complete accuracy and reliability
- Temperature set-back can be programmed with the built-in timer from 5 to 60 minutes in 5 minute intervals
- Vacuum for desoldering is activated by a finger switch on the tool
- Lock-out key to maintain process control for set parameters
- Full range of desoldering tiptets found on page 16
- ESD safe to protect sensitive components

Station	WRS3000V1 (2)	Pencil	WSP80	DSV80	DS80
Voltage	120V (input); 24V (output)	Power Consumption	80W	80W	80W
Power Consumption	300W	Heating Element Type	Silver Spool	Nichrome Wound	Nichrome Wound
Temperature Range	150°F - 850°F (66°C - 454°C)	Iron Cord Length	4 ft. (1.22 m)	4 ft. (1.22 m)	4 ft. (1.22 m)
Footprint	9.5 X 10.6 X 4.1 IN (241 X 269 X 104 MM)	ESD Safe?	Yes	Yes	Yes
Weight (Power Unit Only)	22 lb. (10 kg)	Standard Tip	LTB	DS112	DS112
Pump Type	Rotary Vane	Iron Stand	WPH80	AKV	AK20
Vacuum Pressure	20.7" (526mm) HG	Optional Stand	WPH81		
Air Flow Volume	1 l/min. - 10 l/min.	For SMT Tips			
Temperature Accuracy	+/-16°F (10°C)				
Temperature Stability	+/-10°F (6°C)				
ESD Safe?	Yes				

DS Series Tiptets for DS80 and DSV80



Cat. No.	A		B		C	
	in.	mm	in.	mm	in.	mm
DS110	0.062	1.52	0.024	0.63	0.50	12.70
DS111	0.093	2.48	0.024	0.63	0.50	12.70
DS112	0.078	1.93	0.031	0.91	0.50	12.70
DS113	0.093	2.48	0.046	1.16	0.50	12.70
DS114	0.125	3.25	0.073	1.80	0.50	12.70
DS116	0.093	2.48	0.043	1.14	0.75	19.05
DS117	0.093	2.48	0.024	0.63	0.75	19.05

WRS3000(S)(ST) Rework and Repair Systems



WTA50 thermal tweezers and **AK51** stand is available with **WRS3000ST** four function rework station.

WRS3000S includes: **WRS3000** control unit, **DSV80** in-line desoldering pencil, **AKV** stand and sponge, **WSP80** soldering pencil, **WPH80** stand and sponge, **HAP1** hot air pencil, **PH60** stand and sponge.

Additional Product Features and Benefits:

- Built-in pump provides both air for the hot air tool and vacuum for the desoldering tool
- Microprocessor with digital read-out gives you complete accuracy and reliability
- Temperature set-back can be programmed with the built-in timer from 5 to 60 minutes in 5 minute intervals
- Air flow for the hot air tool and vacuum for desoldering are activated by a finger switch on the tools
- Lock-out key to maintain process control for set parameters
- Full range of soldering tips (page 9), desoldering tiplests (page 16), hot air nozzles (page 21), and thermal tweezers tips (page 21) are available
- Special ionizing circuit assures that hot air is static free to protect sensitive components

The Weller Advantage

- 300 watts of total power over three independently controlled channels (100 watts per channel) plus air and vacuum ports allows you to use up to three 100-watt tools simultaneously
- Vacuum delay feature on the desoldering tool allows the solder to reach the solder collection chamber before the vacuum is shut off to avoid clogging

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[Http://www.100y.com.tw](http://www.100y.com.tw)

Applications:

- Production, rework, and repair of through hole and surface mount boards. Contact removal of IC's and QFP's using specialty SMT tips. Applications requiring non-contact hot air. Heavy ground planes and multi-layer boards. Lead-free solder applications



Non-contact soldering with the HAP1 hot air pencil.



Desoldering a SMT component using the WTA50 thermal tweezers.



The DSV80 80-watt desoldering tool is perfect for desoldering through-hole components.

WRS4000 Four-function Rework and Repair System

WRS1001 (Top) & WRS3000



WRS4000 includes: *WRS3000* control unit, *WRS1001* control unit, *WSP80* soldering pencil, *WPH80* stand and sponge, *DSV80* in-line desoldering pencil, *AKV* stand and sponge, *WTA50* thermal tweezers, *AK51* stand and sponge, *HAP1* hot air pencil, *PH60* stand and sponge.

The Weller Advantage

- 400 watts of total power over four independently controlled channels (100 watts per channel) plus air and vacuum ports allows you to use up to four 100-watt tools simultaneously: soldering, desoldering, hot air, and thermal tweezers
- Vacuum delay feature on the desoldering tool allows the solder to reach the solder collection chamber before the vacuum is shut off to avoid clogging

Applications:

- Production, rework, and repair of through hole and SMT boards. Contact removal of IC's and QFP's using specialty SMT tips. Applications requiring non-contact hot air. Heavy ground planes and multi-layer boards. Lead-free solder applications.

Additional Product Features and Benefits:

- Built-in pump provides both air for the hot air tool and vacuum for the desoldering tool
- Microprocessor with digital read-out gives you complete accuracy and reliability
- Temperature set-back can be programmed with the built-in timer from 5 to 60 minutes in 5 minute intervals
- Air flow for the hot air tool and vacuum for desoldering are activated by a finger switch on the tools
- Lock-out key to maintain process control for set parameters
- Full range of soldering tips (page 9), desoldering tiplests (page 16), hot air nozzles (page 21), and thermal tweezers tips (page 21) are available
- Special ionizing circuit assures that hot air is static free to protect sensitive components

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WRS5000 Five-function Rework and Repair System

WRS2000 (Top) & WRS3000



The Weller Advantage

- 400 watts of total power over four independently controlled channels (100 watts per channel) plus air and vacuum ports allows you to use up to six tools simultaneously: soldering, desoldering, hot air, and thermal tweezers, dispensing, and vacuum pickup
- Vacuum delay feature on the desoldering tool allows the solder to reach the solder collection chamber before the vacuum is shut off to avoid clogging

WRS5000 includes: *WRS3000* and *WRS2000* control units, *WSP80* soldering pencil, *WPH80* stand and sponge, *DSV80* in-line desoldering pencil, *AKV* stand and sponge, *HAP1* hot air pencil, *PH60* stand and sponge, *WTA50* thermal tweezers, *AK51* stand and sponge, vacuum pencil, syringe and needle, vacuum pencil and syringe stand

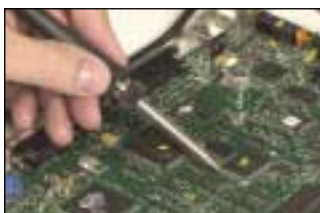
Additional Product Features and Benefits:

- Built-in pump provides both air for the hot air tool and vacuum for the desoldering tool
- Microprocessor with digital read-out gives you complete accuracy and reliability
- Temperature set-back can be programmed with the built-in timer from 5 to 60 minutes in 5 minute intervals
- Air flow for the hot air tool and vacuum for desoldering are activated by a finger switch on the tools
- Includes a vacuum pickup wand for handling components
- Dispensing and vacuum pickup wand utilize fast-acting shop air
- Timer on the front panel allows dispensing in timed intervals
- Lock-out key to maintain process control for set parameters
- Full range of soldering tips (page 9), desoldering tiplests (page 16), hot air nozzles (page 21), and thermal tweezers tips (page 21) are available
- Special ionizing circuit assures that hot air is static free to protect sensitive components

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Applications:

- Production, rework, and repair of through hole and SMT boards. Applications requiring non-contact hot air. Heavy ground planes and multi-layer boards. Solder paste, epoxy, silicone, and potting compound dispensing applications. Lead-free solder applications.



The WSP80 in use on a surface mount PCB.



Non-contact soldering with the HAP1 hot air pencil.



The WTA50 is perfect for removing Melf's from a SMT board.

WRS7000 Seven-function Rework and Repair System



The Weller Advantage

- Over 1200 watts of total power over five independently controlled channels (100 watts per channel) plus air and vacuum ports allows you to use up to seven tools simultaneously: soldering, desoldering, small hot air pencil (100W), large hot air pencil (700W), thermal tweezers, dispensing, and vacuum pickup
- Vacuum delay feature on the desoldering tool allows the solder to reach the solder collection chamber before the vacuum is shut off to avoid logging

WRS7000 includes: *WRS3000* and *WRS2000* and *WHA2000* control units, *WSP80* soldering pencil, *WPH80* stand and sponge, *DSV80* in-line desoldering pencil, *AKV* stand and sponge, *HAP1* hot air pencil, *PH60* stand and sponge, *WTA50* thermal tweezers, *AK51* stand and sponge, vacuum pencil, syringe and needle, vacuum pencil and syringe stand.

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Additional Product Features and Benefits:

- Built-in pump provides both air for the hot air tool and vacuum for the desoldering tool
- Microprocessor with digital read-out gives you complete accuracy and reliability
- Temperature set-back can be programmed with the built-in timer from 5 to 60 minutes in 5 minute intervals
- Air flow for the hot air tool and vacuum for desoldering are activated by a finger switch on the tools
- Self-contained hot air station with large hot air pencil. Allows you to easily rework and repair large IC's and QFP's
- Large hot air pencil has built-in vacuum pickup - eliminates guesswork when chip is ready for removal
- Includes a vacuum pickup wand for handling components
- Dispensing and vacuum pickup wand utilize fast-acting shop air
- Timer on the front panel allows dispensing in timed intervals
- Lock-out key to maintain process control for set parameters
- Full range of soldering tips (page 9), desoldering tipleets (page 16), hot air nozzles (page 21), and thermal tweezers tips (page 21) are available
- Special ionizing circuit assures that hot air is static free to protect sensitive components

Applications:

- Production, rework, and repair of through hole and SMT boards. Applications requiring non-contact hot air. Heavy ground planes and multi-layer boards. Solder paste, epoxy, silicone, and potting compound dispensing applications. Lead-free solder applications



A SMT quad tip is used to desolder a quad flat pack with the WSP80 soldering pencil.



Hot air is directed onto the leads of the QFP component.



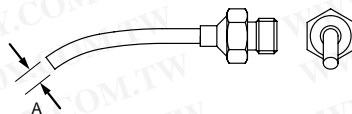
Through hole rework with the DSV80

Nozzles for HAP1 Small Hot Air Pencil



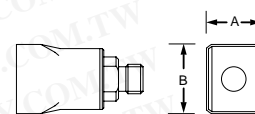
Round

Cat. No.	A		B	
	in.	mm	in.	mm
0058727823	0.031	0.80	--	--
0058727821	0.047	1.20	--	--
0058727787	0.098	2.50	--	--
0058727822	0.118	3.00	--	--



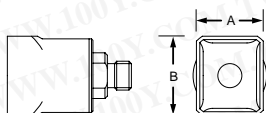
Round Bent

Cat. No.	A		B	
	in.	mm	in.	mm
0058727786	0.079	2.00	--	--



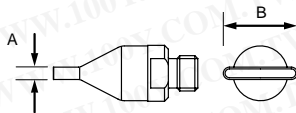
2-Sides Heated

Cat. No.	A		B	
	in.	mm	in.	mm
0058727782	0.394	10.00	0.512	13.00
0058727781	0.394	10.00	0.591	15.00
0058727784	0.394	10.00	0.709	18.00
0058727779	0.413	10.50	0.413	10.50



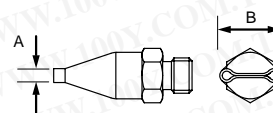
4-Sides Heated

Cat. No.	A		B	
	in.	mm	in.	mm
0058727777	0.236	6.00	0.256	6.50
0058727778	0.236	6.00	0.354	9.00
0058727780	0.394	10.00	0.591	15.00
0058727783	0.492	12.50	0.591	15.00
0058727785	0.709	18.00	0.709	18.00



Flat

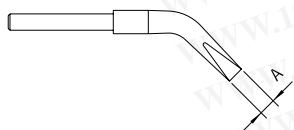
Cat. No.	A		B	
	in.	mm	in.	mm
0058727774	0.059	1.50	0.315	8.00
0058727784	0.059	1.50	0.394	10.00
0058727779	0.059	1.50	0.472	12.00



Dual

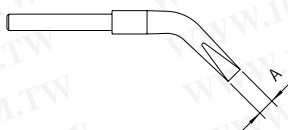
Cat. No.	A		B	
	in.	mm	in.	mm
0058727775	0.059	1.50	0.315	8.00
0058727776	0.059	1.50	0.394	10.00

WT Series Tips for WTA50 Thermal Tweezers



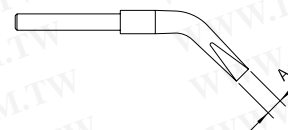
WTA1

Cat. No.	A	
	in.	mm
0054414199	0.039	1.00



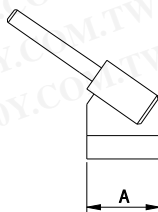
WTA2

Cat. No.	A	
	in.	mm
0054414699	0.118	3.00



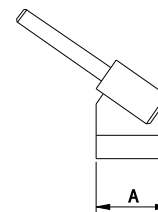
WTA3

Cat. No.	A	
	in.	mm
0054414799	0.236	6.00



WTA4

Cat. No.	A	
	in.	mm
0054414399	0.492	12.50



WTA5

Cat. No.	A	
	in.	mm
0054414499	0.728	18.50

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WQB3000 BGA/QFP Rework Station



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WQB3000

Additional Product Features and Benefits:

Base Unit:

- The unit features a two head system for component placement and hot air desoldering
- The two heads operate on sliding arms, which are controlled by pneumatic cylinders
- The control electronics and pneumatic unit are integrated into the rear housing
- LED's on the back of the housing panel indicate four process states: top heater, bottom heater, desoldering, and cooling
- RS-232 interface for data input unit or PC control. An easy-to-use PC software interface for input using a computer, rather than the supplied control box, is included

Soldering and Placement Heads:

- The connection for the hot air nozzle temperature sensor is in the soldering head to give you the highest possible hot air temperature accuracy
- Precision linear feed for vertical adjustment, approximately 3.2" (80 mm) stroke
- A continuously adjustable depth stop prevents the head from dropping onto the board
- The head mechanisms are pneumatically damped to give you finer control over the movement of the soldering and placement heads

Soldering Head Only:

- A vacuum lift built into the hot air nozzle allows for the automatic desoldering of components. The vacuum tube can be continuously adjusted in height with a 10 mm adjustment range
- Theta rotation of the soldering head in a range of -5° to 95°
- A swiveling halogen light is mounted near the soldering and placement heads in order to illuminate the work space
- A wide range of easily interchangeable hot air nozzles are available and are listed on page 23

The Weller Advantage

- Excellent process control including below-board infrared pre-heating, precisely regulated and metered heat applied to the component, and electronic digital regulation of the air flow rate
- All process steps can be programmed and saved as rework profiles on the digital data input unit or a PC
- The WQB3000 utilizes the patented Weller mini-template system for the placement of components on the circuit board

Placement Head Only:

- A vacuum receptacle is activated by a button on the front of the placement head
- A reducer insert for the vacuum receptacle is provided for smaller components

Bottom Heater:

- Table is equipped with a high temperature long wavelength infrared ceramic lamp for efficient bottom pre-heat of the PCB
- The bottom pre-heater is divided into two zones: The 400-watt inner zone is 5" x 5". The 1600-watt outer zone is 10.6" x 10.6"
- The temperature is regulated by thermocouples integrated in the central heater lamp

Circuit Board Holder:

- Able to hold circuit boards with a minimum width of 1.2" (30 mm) and a maximum width of 19.5" (495 mm) and unlimited length
- After positioning the board, a precision drive in the X and Y directions allows you to achieve exact positioning. The adjustment range is ± 0.40" (10 mm) with adjustment precision of ± 0.002" (0.05 mm). The controls for the precision adjustment are located on the sides of the table

Data Input Unit:

- Parameters for each process step, including bottom heater temperature, soldering head temperature, airflow rate, process time, and cooling time can be programmed
- A LCD display with background lighting gives you a clear, easy-to-read display
- A key switch is provided to lockout against unauthorized use
- Up to 30 profiles can be stores in the data input unit

Station	WQB3000
Dimensions (L x W x H)	25.6 x 23.6 x 19.7 IN (650 x 600 x 500 mm)
Input Voltage	230 - 240V, 50-60 Hz
Power Consumption-Soldering Head	700W
Power Consumption-Bottom Heater	400W (Inner) & 1600W (Outer)
Temperature Range-Soldering Head	122°F - 752°F (50°C - 400°C)
Temperature Accuracy	+/-59°F (15°C)
Air Flow Rate	5 - 50 l/Min.
Total Weight	80 lb. (36 kg)

Applications:

- Rework and repair of SMT array packages including ceramic, and plastic, BGA's, micro BGA's, Chip Scale Packages, PLCC's, and QFP's. Multi-layer boards and ground planes.



The WQB3000 is ready to desolder a BGA component.



Parameters for each process can be programmed into the data input unit.



BGA placement is easy using the patented Weller® placement templates.

Nozzles and Templates for WQB3000

Component	Matrix	Component Body Size	Pitch (mm)	Nozzle No.	Nozzle I.D. (mm)	Nozzle O.D. (mm)	Template No.
Micro BGA	23 X 23	12 X 12	0.50S	0058747904	13.5 X 13.5	14.3 X 14.3	0058754945
Micro BGA	29 X 29	15 X 15	0.50	0058747935	15.5 X 15.5	16.5 X 16.5	0058747932
Micro BGA	6 X 10	8 X 10.2	0.75	0058747961	8.5 X 10.6	9.5 X 11.6	0058747963
Micro BGA	8 X 8	8.1 X 8.1	0.75	0058747945Δ	8.5 X 8.5	9.5 X 9.5	0058754838Δ
Micro BGA	9 X 8	7.6 X 16.4	0.75	0058747833	18 X 18	20 X 20	0058747899
Micro BGA	10 X 10	10 X 10	0.80	0058747848	12 X 12	13 X 13	0058747958
Micro BGA	13 X 13	12 X 12	0.80	0058747904	13.5 X 13.5	14.3 X 14.3	0058747959Δ
Micro BGA	14 X 14	13 X 13	0.80	0058747904	13.5 X 13.5	14.3 X 14.3	0058747934Δ
Micro BGA	15 X 15	13 X 13	0.80	0058747904	13.5 X 13.5	14.3 X 14.3	0058747973Δ
Micro BGA	18 X 18	16 X 16	0.80	0058747833	18 X 18	20 X 20	0058747964
Micro BGA	19 X 19	16 X 16	0.80	0058747833	18 X 18	20 X 20	0058754841
Micro BGA	6 X 8	8 X 10.2	0.80	0058747961	8.5 X 10.6	9.5 X 11.6	0058754763
Micro BGA	7 X 7	7 X 7	0.80	0058747945Δ	8.5 X 8.5	9.5 X 9.5	005874762Δ
Micro BGA	8 X 8	8 X 8	0.80	0058747945Δ	8.5 X 8.5	9.5 X 9.5	0058747956Δ
Micro BGA	9 X 9	8 X 8	0.80	0058747945Δ	8.5 X 8.5	9.5 X 9.5	0058747954Δ
BGA 209	11 X 19	14 X 22	1.00	0058747977	15.5 X 23.5	16.5 X 24.5	0058754847
BGA	12 X 12	13 X 13	1.00	0058747904	13.5 X 13.5	14.3 X 14.3	0058747929
BGA 196	14 X 14	15 X 15	1.00	0058747935	15.5 X 15.5	16.5 X 16.5	0058747930
BGA	16 X 16	17 X 17	1.00	0058747833	18 X 18	20 X 20	0058747931
BGA 484	22 X 22	23 X 23	1.00	0058747764	25 X 25	27 X 27	0058754760
BGA	24 X 24	25 X 25	1.00	0058747850Δ	27 X 27	29 X 29	0058754779Δ
BGA 676	26 X 26	27 X 27	1.00	0058747927	29 X 29	31 X 31	0058754777
BGA	29 X 29	31 X 31	1.00	0058747906	33 X 33	35 X 35	0058754761
BGA 900	30 X 30	31 X 31	1.00	0058747906	33 X 33	35 X 35	0058754849
BGA	34 X 34	35 X 35	1.00	0058747753	37 X 37	39 X 39	0058754850
BGA 680	39 X 39	40 X 40	1.00	0058747874	42 X 42	44 X 44	0058747987
BGA 540	32 X 32	44 X 44	1.27	0058747763	46 X 46	48 X 48	0058747778
BGA 119	7 X 7	14 X 22	1.27	0058747977	15.5 X 23.5	16.5 X 24.5	0058747974
BGA 357/361	19 X 19	25 X 25	1.27F	0058747850Δ	27 X 27	29 X 29	0058747781Δ
BGA 624	24 X 26	35 X 35	1.27F	0058747753	37 X 37	39 X 39	0058754848
BGA 192/217	17 X 17	23 X 23	1.27P	0058747764	25 X 25	27 X 27	0058747861
BGA 256/272/292	20 X 20	27 X 27	1.27P	0058747927	29 X 29	31 X 31	0058747966
BGA 304	23 X 23	31 X 31	1.27P	0058747906	33 X 33	35 X 35	0058747911
BGA 388	26 X 26	35 X 35	1.27P	0058747753	37 X 37	39 X 39	0058747779
BGA 432	31 X 31	40 X 40	1.27P	0058747874	42 X 42	44 X 44	0058747859
BGA 560	33 X 33	43 X 43	1.27P	0058747763	46 X 46	48 X 48	0058747897
BGA 313	25 X 25	35 X 35	1.27S	0058747753	37 X 37	39 X 39	0058747894
BGA 225	15 X 15	27 X 27	1.5F	0058747927	29 X 29	31 X 31	0058747782Δ

Component	Matrix	Component Body Size	Pitch (mm)	Nozzle Catalog No.	Nozzle I.D. (mm)	Nozzle O.D. (mm)	Template Catalog No.
PLCC 20	-	10 X 10	1.27	0058747848	12 X 12	13 X 13	0058754808
PLCC 28	-	12.5 X 12.5	1.27	0058747904	13.5 X 13.5	14.3 X 14.3	0058754809
PLCC 44	-	17.5 X 17.5	1.27	0058747833	18 X 18	20 X 20	0058754810Δ
PLCC 52	-	20.2 X 20.2	1.27	0058754770Δ	21 X 21	23 X 23	0058754811Δ
PLCC 68	-	25.2 X 25.2	1.27	0058747850Δ	27 X 27	29 X 29	0058754812Δ

Notes:

(Δ) Denotes Make To Order. Contact us for a quote and lead-time.

Quad Flat Packs can be reworked using hot air nozzles found on page 28 (adapter #0058759970 required).

Pitch Key:

P = Perimeter Matrix
S = Staggered Matrix
F = Full Matrix

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WAD101 Digital Shop Air Hot Air Station



The Weller Advantage

- Features digital temperature control with easy to read LED display for fast and accurate temperature set of the hot air
- Programmable using the optional WCB1 control module. Allows for temperature lockout for process control, temperature setback and °F to °C conversion

WAD101 includes: HAP1 hot air pencil, PH60 stand and sponge.

Applications:

- Rework and repair of SMT boards. Sensitive applications requiring non-contact hot air. Some ground planes and multi-layer boards.

Additional Product Features and Benefits:

- Air flow is adjustable using knob on the side of the power unit
- Compact design is ideal for soldering, desoldering, and rework of SMT components
- Uses fast acting shop air or compressed nitrogen
- Air flow is actuated by a finger switch on the hot air pencil
- Full range of hot air nozzles is available on page 21
- ESD safe to protect sensitive components

Station	WAD101	Pencil	HAP1
Voltage	120V (input); 24V (output)	Power Consumption	100W
Power Consumption	100W	Heating Element Type	Nichrome Wound, fiberglass and ceramic insulated
Temperature Range	122°F - 1022°F (50°C - 550°C)	Iron Cord Length	4 ft. (1.22 m)
Footprint	4 1/2 X 5 15/16 X 3 5/8 IN (114 X 150 X 91 MM)	ESD Safe?	Yes
Weight (Power Unit Only)	3.9 lb. (1.78 kg)	Standard Nozzle	0058727821
Air Flow Volume	1 l/min. - 6 l/min.	Iron Stand	KH27 (0051502799)
Temperature Accuracy	± 50°F - (30°C)		
ESD Safe?	Yes		

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WRS1001 Digital Self-contained Hot Air Station

The Weller Advantage

- Features digital temperature control with easy to read LED display for fast and accurate temperature set of the hot air
- Programmable using the optional WCB1 control module. Allows for temperature lockout for process control, temperature setback and °F to °C conversion



WRS1001 includes: HAP1 100 watt hot air pencil, PH60 stand and sponge.

Additional Product Features and Benefits:

- Internal rotary pump means no need for shop air
- Air flow is adjustable digital electronics on the front panel
- Compact design is ideal for soldering, desoldering, and rework of SMT components
- Air flow is actuated by a finger switch on the hot air pencil
- Full range of hot air nozzles is available on page 21
- Special ionizing circuit assures that hot air is static free to protect sensitive components

Station	WRS1001
Voltage	120V (input); 24V (output)
Power Consumption	175W
Temperature Range	150°F - 980°F (66°C - 511°C)
Footprint	9.5 X 10.6 X 4.1 IN (241 X 269 X 104 MM)
Weight (Power Unit Only)	12.9 lb. (5.85 kg)
Pump Type	Rotary Vane
Air Flow Volume	1 l/min. - 10 l/min.
Temperature Accuracy	+/-50°F (30°C)
Temperature Stability	+/-10°F (6°C)
ESD Safe?	Yes

Applications:

- Rework and repair of SMT boards. Sensitive applications requiring non-contact hot air. Some ground planes and multi-layer boards. Heat shrink tubing.

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The HAP1 desoldering a component.

WHA500 Digital Self-contained Hot Air Station

Available January 2003.



WHA500

The Weller Advantage

- Digital control electronics displays both the set and read temperatures.
- A sensor in the heating element reads the hot air temperature and displays it on the digital display
- Gives you maximum control over the process to avoid thermal stress on sensitive components.

Applications:

- Rework and repair of SMT boards. Sensitive applications requiring non-contact hot air. Most ground plane and multi-layer board applications

Additional Product Features and Benefits:

- Air flow volume is adjustable using the knob on the front panel
- Air temperature is adjustable to accommodate most SMT rework applications
- A quiet, reliable, trouble-free internal pump generates the air flow – no need for an external air source
- A one-minute cool-down mode is activated when the power switch is turned off, which reduces nozzle temperature prior to nozzle change
- The air delivery tube is flexible to prevent the air flow from being interrupted
- A carry handle is mounted on the top of the housing for portability
- The WHA500 is compatible with the current Weller hot air nozzles
- The air flow is antistatic, so sensitive components are not harmed
- A complete range of nozzles is available – see page 28

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Station	WHA500
Input Voltage	120V
Output Voltage	120V
Power Consumption	350W
Temperature Range	122°F - 1022°F (50°C - 550°C)
Footprint	6 5/8 X 8 1/8 X 3 7/8 in. (168 X 206 X 98 mm)
Weight	9 lb. (4.1 kg)
Air Flow Volume	3 l/min – 30 l/min.
Temperature Accuracy	+/- 86°F (55°C)
ESD Safe?	Yes
Heating Element Type	Nichrome wound, Fiberglass and ceramic insulated
Standard Nozzle	No nozzle included - order separately

WHA2000 Analog Self-contained Hot Air Station

The Weller Advantage

- The hand piece and nozzle have built in vacuum pick up. Simply activate the vacuum with the foot pedal and lift the component off of the board with the nozzle when the solder reflows

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WHA2000

Additional Product Features and Benefits:

- An internal turbine generates the air flow - no need for shop air
- High performance 750-watt hand piece can handle more demanding rework applications
- Electronic control allows you to precisely control the hot air temperature which helps avoid thermal stress on the target component
- Vacuum for component pickup is activated by the foot switch
- Complete range of nozzles is available on page 28
- Special ionizing circuit assures that hot air is static free to protect sensitive components

Station	WHA2000
Voltage	120V (input); 120V (output)
Power Consumption	820W
Temperature Range	122°F - 1022°F (50°C - 550°C)
Weight (Power Unit Only)	20.35 lb. (9.26 kg)
Pump Type	Turbine
Air Flow Volume	10 l/min. - 50 l/min.
Temperature Accuracy	+/-86°F (55°C)
ESD Safe?	Yes
Heating Element Type	Nichrome wound, fiberglass and ceramic insulated
Standard Nozzle	No nozzle included - order separately

Applications:

- Rework and repair of SMT boards. Sensitive applications requiring non-contact hot air. Most ground planes and multi-layer boards.



Step 1: Hot air is directed onto the leads of the QFP component.

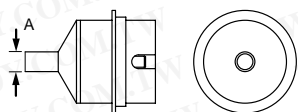


Step 2: The nozzle is lowered onto the component to effect reflow and engage the component to the vacuum pick-up.



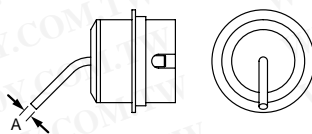
Step 3: The component is lifted off the board using the built-in vacuum pick-up.

Nozzles for WHA500 and WHA2000



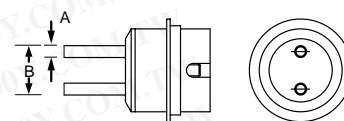
Round (No Vacuum)

Cat. No.	A		B	
	in.	mm	in.	mm
0058736881	0.098	2.50	--	--
0058736867	0.157	4.00	--	--
0058736870	0.276	7.00	--	--
0058736836 Δ	0.453	11.50	--	--



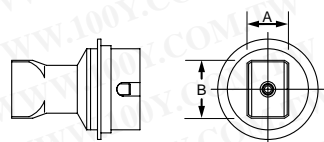
Round Bent (No Vacuum)

Cat. No.	A		B	
	in.	mm	in.	mm
0058736882	0.059	1.50	--	--



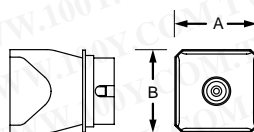
Round Dual (No Vacuum)

Cat. No.	A		B	
	in.	mm	in.	mm
0058736883	0.098	2.50	0.374	9.50



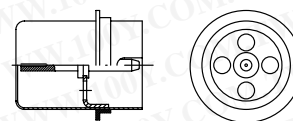
2-Sides Heated

Cat. No.	A		B	
	in.	mm	in.	mm
0058736840	0.583	4.80	0.846	21.50
0058736842	0.394	10.00	0.551	14.00
0058736843	0.421	10.70	0.421	10.70
0058736841	0.472	12.00	0.748	19.00
0058736876 Δ	0.472	12.00	1.063	27.00
0058736857 Δ	1.496	38.00	1.496	38.00
0058736873 Δ	1.575	40.00	1.575	40.00



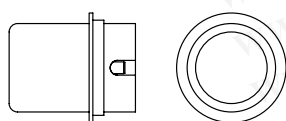
4-Sides Heated

Cat. No.	A		B	
	in.	mm	in.	mm
0058736839	0.433	11.00	0.433	11.00
0058736818	0.583	14.80	0.583	14.80
0058736814	0.709	18.00	0.709	18.00
0058736807	0.807	20.50	0.807	20.50
0058736804	1.024	26.00	1.024	26.00
0058736833	1.260	32.00	1.260	32.00
0058736891	1.417	36.00	1.417	36.00
0058736890 Δ	1.693	43.00	1.693	43.00
0058736838	0.394	10.00	0.571	14.50
0058736880 Δ	0.472	12.00	0.945	24.00
0058736837	0.512	13.00	0.610	15.50
0058736892 Δ	0.551	14.00	1.063	27.00
0058750721	0.669	17.00	0.925	23.50
0058736877 Δ	0.669	17.00	1.142	29.00
0058736998 Δ	0.906	23.00	1.398	35.50
0058736999 Δ	1.201	30.50	1.909	48.50
0058736858 Δ	1.260	32.00	1.732	44.00
0058750709 Δ	1.496	38.00	1.909	48.50
0058750714 Δ	1.496	38.00	2.402	61.00



Measuring

Cat. No.	A		B	
	in.	mm	in.	mm
0058736875 Δ	N/A		N/A	



Adapter for Hakko Nozzles

Cat. No.	A		B	
	in.	mm	in.	mm
0058750722	N/A		N/A	

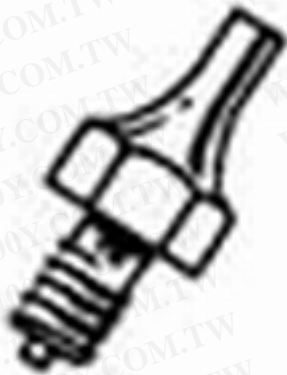
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Notes:

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Cat. No.	Page	Cat. No.	Page	Cat. No.	Page	Cat. No.	Page	Cat. No.	Page
0054414199	21	0058747906	23	ETT	5	MT607	11	PTE8	13
0054414399	21	0058747911	23	ETU	5	MT608	11	PTF7	13
0054414499	21	0058747927	23	ETV	5	MT609	11	PTF8	13
0054414699	21	0058747929	23	HAP1	17, 18, 19, 20, 24, 25	MT610	11	PTH6	13
0054414799	21	0058747930	23	LT1	9	MT611	11	PTH7	13
0058727774	21	0058747931	23	LT1L	9	MT613	11	PTH8	13
0058727775	21	0058747932	23	LT1LX	9	MT614	11	PTJ7	13
0058727776	21	0058747934	23	LT1S	9	MT617	11	PTJ8	13
0058727777	21	0058747935	23	LT1SLX	9	MT620	11	PTK6	13
0058727778	21	0058747945	23	LT1X	9	NT1	7	PTK7	13
0058727779	21	0058747954	23	LT4W	9	NT1S	7	PTK8	13
0058727780	21	0058747956	23	LT4X	9	NT1X	7	PTKX6	13
0058727781	21	0058747958	23	LTA	9	NT4	7	PTL7	13
0058727782	21	0058747959	23	LTAS	9	NT6	7	PTL8	13
0058727783	21	0058747961	23	LTAX	9	NTA	7	PTM7	13
0058727784	21	0058747963	23	LTB	9	NTAX	7	PTM8	13
0058727785	21	0058747964	23	LTC	9	NTB	7	PTO6	13
0058727786	21	0058747966	23	LTCs	9	NTC	7	PTO7	13
0058727787	21	0058747973	23	LTD	9	NTD	7	PTO8	13
0058727821	21	0058747974	23	LTF	9	NTGW	7	PTP6	13
0058727822	21	0058747977	23	LTH	9	NTH	7	PTP7	13
0058727823	21	0058747987	23	LTHX	9	NTK	7	PTP8	13
0058736804	28	0058750709	28	LTK	9	NTSMT01	7	PTR6	13
0058736807	28	0058750714	28	LTKN	9	NTSMT02	7	PTR7	13
0058736814	28	0058750721	28	LTL	9	NTSMT03	7	PTR8	13
0058736818	28	0058750722	28	LTM	9	NTSMT04	7	PTS6	13
0058736833	28	0058754760	23	LTS	9	NTSMT05	7	PTS7	13
0058736836	28	0058754761	23	LTSMT01	9	NTSMT06	7	PTS8	13
0058736837	28	0058754762	23	LTSMT02	9	NTSMT07	7	PTT8	13
0058736838	28	0058754763	23	LTSMT03	9	NTSMT08	7	PTZ7	13
0058736839	28	0058754770	23	LTSMT04	9	NTSMT09	7	PU120T	12
0058736840	28	0058754777	23	LTSMT05	9	NTSMT10	7	TC201T	12
0058736841	28	0058754779	23	LTSMT06	9	NTSMT11	7	WAD101	24
0058736842	28	0058754808	23	LTSMT07	9	NTSMT12	7	WDD81V	14
0058736843	28	0058754809	23	LTSMT08	9	NTSMT13	7	WDD81VIL	14
0058736857	28	0058754810	23	LTSMT09	9	NTSMT14	7	WES51	3
0058736858	28	0058754811	23	LTSMT10	9	NTSMT15	7	WES51PU	3
0058736867	28	0058754812	23	LTSMT11	9	NTSMT16	7	WESD51	4
0058736870	28	0058754838	23	LTSMT12	9	NTSMT17	7	WESD51PU	4
0058736873	28	0058754841	23	LTSMT13	9	NTSMT18	7	WHA2000	20, 27
0058736875	28	0058754847	23	LTSMT14	9	NTSMT19	7	WHA500	26
0058736876	28	0058754848	23	LTSMT15	9	NTSMT20	7	WHP81	6
0058736877	28	0058754849	23	LTSMT16	9	NTSMT21	7	WMP	6
0058736880	28	0058754850	23	LTSMT17	9	NTSMT22	7	WMPH	6
0058736881	28	0058754945	23	LTSMT18	9	PES51	3, 4	WPH80	17, 18, 19, 20
0058736882	28	AK20	14, 15, 16	LTSMT19	9	PH1201ESD	12	WPH81	8
0058736883	28	AK51	17, 18, 19, 20	LTSMT20	9	PH50	3, 4	WQB3000	22
0058736890	28	AKV	14, 15, 16, 17, 18, 19, 20	LTSMT21	9	PH60	17, 18, 19, 20, 24, 25	WRS1001	15, 18, 25
0058736891	28	DS80	14, 15, 16	LTSMT22	9	PTA6	13	WRS10011	15
0058736892	28	DSV80	14, 15, 16, 17, 18, 19, 20	MT1205	11	PTA7	13	WRS10012	15
0058736998	28			MT1500	10	PTA8	13	WRS2000	19, 20
0058736999	28	ETA	3, 4, 5	MT1501	10	PTAA7	13	WRS3000	16, 17, 18, 19, 20
0058747753	23	ETAA	5	MT1502	10	PTAA8	13	WRS3000S	17
0058747763	23	ETB	5	MT202	11	PTB6	13	WRS3000ST	17
0058747764	23	ETBB	5	MT203	11	PTB7	13	WRS3000V1	16
0058747778	23	ETC	5	MT204	11	PTB8	13	WRS3000V2	16
0058747779	23	ETCC	5	MT211	11	PTBB7	13	WRS4000	18
0058747781	23	ETD	5	MT212	11	PTBB8	13	WRS5000	19
0058747782	23	ETDD	5	MT220	11	PTC6	13	WRS7000	20
0058747833	23	ETH	5	MT221	11	PTC7	13	WSD161	8
0058747848	23	ETJ	5	MT301	11	PTC8	13	WSD81	8
0058747850	23	ETK	5	MT302	11	PTCC7	13	WSD81PU	8
0058747859	23	ETKN	5	MT303	11	PTCC8	13	WSL	6
0058747861	23	ETL	5	MT601	11	PTD6	13	WSL2	6
0058747874	23	ETM	5	MT602	11	PTD7	13	WSL2PU	6
0058747894	23	ETO	5	MT603	11	PTD8	13	WSLPU	6
0058747897	23	ETP	5	MT604	11	PTDD7	13	WSP80	6, 8, 16, 17, 18, 19, 20
0058747899	23	ETR	5	MT605	11	PTDD8	13	WTA50	17, 18, 19, 20
0058747904	23	ETS	5	MT606	11	PTE7	13	WTCPT	12

.093"OD x .046" ID x .5" Reach Threaded Triplet for Desoldering Tools



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Individual Product	
Catalog No.	DS113
UPC Code	037103474445
Quantity	1
Length (Inches)	6
Width (Inches)	1.8
Height (Inches)	0.29999999999999999
Gross Weight (lb)	0.027
Volume (cu in)	3.2400000000000002

Shelf Pack	
Catalog No.	DS113
I 2 of 5 Code	30037103474446
Quantity	5
Length (Inches)	2.25
Width (Inches)	6.5
Height (Inches)	2.75
Gross Weight (lb)	0.13500000000000001
Volume (cu in)	40.219000000000001

Case Pack	
Catalog No.	DS113
I 2 of 5 Code	20037103474449
Quantity	40
Length (Inches)	9.25
Width (Inches)	5.875
Height (Inches)	7.25
Gross Weight (lb)	1.0800000000000001
Volume (cu in)	393.99200000000002