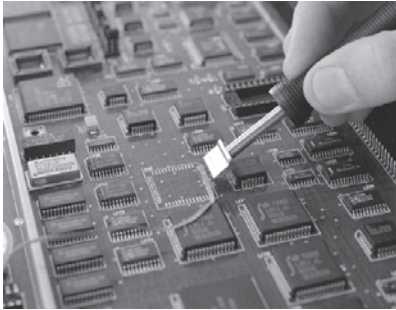


# METCAL



Metcal soldering and desoldering stations utilize a patented heating technology which provides accurate, instantaneous tip temperatures and rapid thermal recovery with high mass boards. Heat is delivered to the tip through a pencil-like, ergonomic handpiece with a minimal tip-to-grip distance. The MX Series offers SMT soldering and desoldering, while the SP440 provides through-hole desoldering capability. A Metal tip cartridge combines heating and sensing capabilities into a self-regulating cartridge—providing the user with high soldering throughput at low temperatures.

### MX SERIES SMARTHEAT SOLDER STATIONS

Metcal's MX Series Systems employ the patented SmartHeat technology in delivering heat to the soldering or desoldering tip. The MX powers a wide variety of tips, providing for removal or attachment of the full range of SMT components, including chips, SOT, SOIC, SOJ, PLCC and QFP. The system is available in a single handpiece configuration (MX-500S) or a dual system which includes the TALON tweezer handpiece (MX-500TS).



### MX-500TS TALON SOLDERING/SMT REWORK SYSTEM

Cat. No.	Description	Net Price
<b>MX-500TS-11</b>	Rework System	<b>\$1247.01</b>
<b>MX-500P-11</b>	Two port switchable power supply	<b>717.03</b>
<b>MX-TALON</b>	Handpiece with cord (tweezer)	<b>342.93</b>
<b>MX-RM3E</b>	Handpiece with cord	<b>109.18</b>
<b>AC-CP2</b>	Cartridge removal pad (2 ea.)	<b>7.71</b>
<b>MX-WS5</b>	Workstand	<b>63.60</b>
<b>MX-WS4</b>	Workstand	<b>63.60</b>
<b>AC-YS3-P</b>	Sponge (2 ea.)	<b>48.17</b>

**NOTE:** Tip cartridges for all systems sold separately.  
Main station MX-500TS-11 consists of above.



### MX-500S SOLDERING/SMT REWORK SYSTEM

Cat. No.	Description	Net Price
<b>MX-500S-11</b>	Rework System	<b>\$835.50</b>
<b>MX-500P-11</b>	Two port switchable power supply	<b>851.37</b>
<b>MX-RM3E</b>	Handpiece with cord	<b>109.18</b>
<b>AC-CP2</b>	Cartridge removal pad	<b>7.71</b>
<b>MX-WS4</b>	Workstand	<b>63.60</b>
<b>AC-YS3-P</b>	Sponge	<b>48.17</b>

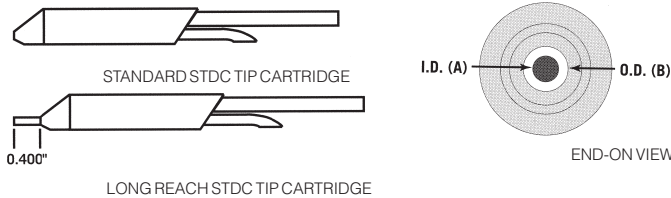
**NOTE:** Tip cartridges for all systems sold separately.  
Main station MX-500S-11 consists of above.



### MX-500DS REWORK/DESOLDERING SYSTEM

Cat. No.	Description	Net Price
<b>MX-500DS-11</b>	Rework/Desoldering System	<b>\$1309.36</b>
<b>MX-DS1</b>	Desoldering Handpiece	<b>359.14</b>
<b>MX-RM3E</b>	Rework Handpiece with cord	<b>109.18</b>
<b>MX-WS4</b>	Workstand	<b>63.60</b>
<b>AC-YS3-P</b>	Sponge (2 ea.)	<b>.96</b>
<b>AC-CP2</b>	Cartridge removal pad (2 ea.)	<b>7.71</b>

**NOTE:** The MX-500DC requires shop air for desoldering.

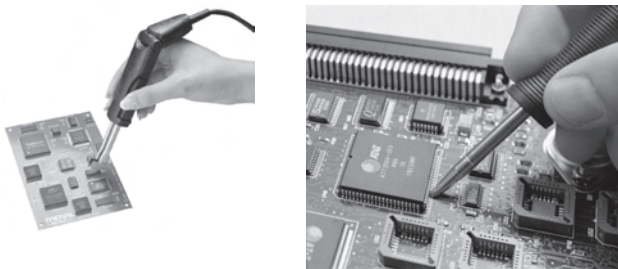
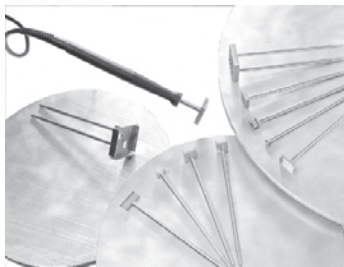


## STDC TIP CARTRIDGES FOR MX DESOLDERING SYSTEM

STDC cartridges are highly durable and designed for high heat transfer, making desoldering on multi-layer boards much easier. Desolder cartridges are available in three temperature ranges (600, 700, and 800 Series). A typical board usually requires a 700 Series tip cartridge. Try a 600 Series tip cartridge first for thermally sensitive components or small single-sided board. 800 Series tip cartridges can help you do the most stubborn jobs. **NOTE:** Use with MX-DS1 pistol grip desoldering handpiece only.

Cat. No.	Dimensions (In.)		Temperature (°F)	Net Price
	A	B		
<b>600 SERIES</b>				
STDC-002	0.025	0.055	600	\$46.95
STDC-003	0.030	0.066		46.95
STDC-004	0.040	0.070		46.95
<b>700 SERIES</b>				
STDC-104	0.040	0.070	700	46.95
STDC-105	0.050	0.080		46.95
STDC-106	0.060	0.090		46.95
<b>800 SERIES</b>				
STDC-802	0.025	0.055	800	69.40
STDC-803	0.030	0.066		69.40
STDC-804	0.040	0.070		69.40
<b>LONG REACH</b>				
STDC-703L	0.030	0.066	700	52.06
STDC-704L	0.040	0.070		52.06
STDC-705L	0.050	0.080		52.06

**NOTE:** For other MX tip sizes contact your Electro Sonic sales representative.



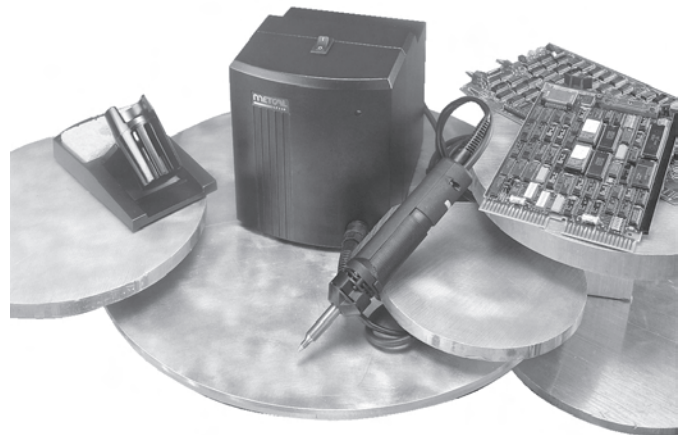
## SMARTHEAT® TIP CARTRIDGES

Metcal's SmartHeat® tip cartridges are the heart of every Metcal system. They utilize a self-regulating ferromagnetic heater to deliver just the right amount of heat to the solder connections. Changing cartridges is quick and easy—no screws, no hassles. A Metcal tip cartridge combines heating and sensing capabilities into a self-regulating cartridge. Since there are no separate sensors and controllers, there are no electronics to calibrate. Metcal tip cartridges provide continuous temperature control with no maintenance, providing the user with high soldering throughput at low temperatures.

## MX SERIES TIP CARTRIDGES

Cat. No.	Description	Applications	Net Price
STTC-036	3/32 30° Chisel	600°F	\$28.18
STTC-136	3/32 30° Chisel	700°F	28.18
STTC-036	1/16 90° Chisel	600°F	28.18
STTC-537	3/64 30° Chisel	500°F	28.18
STTC-037	3/64 30° Chisel	600°F	28.18
STTC-138	3/64 30° Chisel	700°F	28.18
STTC-025	1/32 30° Chisel	600°F	28.18
STTC-125	1/32 30° Chisel	700°F	28.18
STTC-022	1/64 Conical°F	600°F	28.18
STTC-122	1/64 Conical°F	700°F	28.18
STTC-026	1/64°F (Bent 30°)	600°F	28.18
STTC-126	1/64°F (Bent 30°)	700°F	28.18
STTC-045	1/128 60° Bevel	600°F	28.18
STTC-145	1/128 60° Bevel	700°F	28.18
STTC-101	1/32 Conical°F	700°F	28.18
STTC-540	1/64 Con. Sharp (Bent 30°)	500°F	28.18
STTC-040	1/64 Con. Sharp (Bent 30°)	600°F	28.18
STTC-140	1/64 Con. Sharp (Bent 30°)	700°F	28.18
SMTTC-1167	Mini-hoof	Drag soldering	54.59
SMTTC-1161	Knife		54.59
TATC-501	Talon cartridge	0.015" tip	128.44
TATC-601	Talon cartridge	0.015" tip	128.44

**NOTE:** For other MX tip cartridge sizes contact your Electro Sonic sales representative.



SP440

## SP440 SMARTHEAT DESOLDERING SYSTEM

The Metcal® SP440 Self-Contained Desoldering System is designed for production level through-hole rework applications. With 50 Watts of power and tips specially designed to maximize heat transfer, the SP440 is ideal for heavy load desoldering of components on heavy ground plane and multilayer PCBs. The SP440 delivers superior Metcal performance at a price competitive with lesser tools.

The whisper quiet, self-contained vacuum pump delivers a powerful vacuum capable of clearing through-holes quickly and completely. Because the vacuum system is built into the unit, the SP440 is portable and ideal for areas lacking shop air.

The lightweight quiet, ergonomic pencil grip desolder tool is designed to maximize operator control and comfort while reducing fatigue during rework. The

Continued on next page....

cable and vacuum tubing are burn proof. And the solder collection chamber has been designed for easy cleaning—no glass tubes!

The SP440 self-contained desoldering system includes a 50 watt power supply with self-contained vacuum, desolder tool, and workstand. The SP440 has an automatic time-out feature to extend tip life. A variety of desolder tips are sold separately.

### SP-440 SELF-CONTAINED DESOLDERING SYSTEM

Cat. No.	Description	Net Price
SP440-11	Base unit	\$860.44
DP-DSG2	Desolder handpiece	236.93
DP-WSK2	Workstand	53.95

Tip cartridges for all systems sold separately.



### METCAL PS-800 SOLDERING SYSTEM

Historically, Metcal has redefined soldering performance and now they have significantly shifted the price/performance ratio. The PS-800 Soldering System delivers the industry standard thermal performance of Smartheat®, with a compact power supply that fits on or under the bench. However, small size and low cost belie the full capabilities of the PS-800 Soldering System. The system is pure Metcal, featuring variable power/fixed temperature control in an iron that requires no calibration. Cost of ownership is minimal, as the PS-800 Soldering System uses replacement heater tips rather than cartridges. The long-life heater coil remains in the handle, while replaceable tips that contain the heater itself, are easily removed and replaced. Metcal has developed a range of 33 soldering tips with a wide range of temperatures. Designed to be the perfect soldering system for repetitive manual assembly and touch-up, the thermal performance of the PS-800 Soldering System is unmatched by systems costing three times as much.

Cat. No.	Net Price
PS-800	\$310.91

NOTE: For a complete line of PHT soldering tips and accessories contact your Electro Sonic sales representative.



### SP200 SOLDERING SYSTEM

**THE SP200: NOW YOU DON'T HAVE TO SETTLE FOR SECOND BEST IN SOLDERING SYSTEMS**

With increased competition, companies of all sizes are being driven to cut costs—without cutting corners. Now you don't have to settle for second best—the SP200 delivers 100% Metcal Direct Power performance for soldering applications. Just as in all Metcal SmartHeat systems, there is no calibration required.

The SP200 is an ideal choice for both large and small companies. You can put an SP200 on the benches of through-hole soldering and surface mount touch-up benches, and a Metcal MX500 Surface Mount Rework System on the benches of your SMT rework operators.

### SP200 SYSTEM SOLDERING SYSTEM

Cat. No.	Description	Net Price
SP200-11	Soldering System	\$386.58
SP-PW1	Power supply	314.68
SP-HC1	Handpiece with cord	77.07
SP-WSK1	Workstand with sponge	53.95
STSS-CP2	Cartridge removal pad	8.87

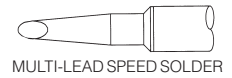
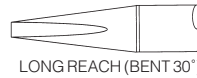
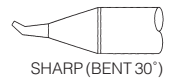
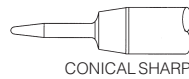
NOTE: Tip cartridges sold separately.

### SP200 SOLDERING ACCESSORIES

Cat. No.	Description	Net Price
SP-HC1	Solder handle/cord for SP200	\$77.07
SP-WSK1	Solder workstand with YS3 sponge	53.95
AC-YS3-P	Sponge for WSK1/WSK2	48.17

### MISCELLANEOUS ACCESSORIES

Cat. No.	Description	Net Price
AC-TSTAND	Tip stand	\$49.88
AC-TCASE	Tip case*	87.29
AC-CP2	Cartridge removal pad	7.71
AC-BRUSH-P	Cartridge cleaning brush	61.65



### SSC SOLDERING CARTRIDGES FOR THE SP200

For maximum performance, pick a tip geometry with will maximize contact with the connection. A flat, blunt tip will transfer more heat than a fine, pointed one. Choosing the largest tip possible will improve performance (enabling you to get more heat at lower temperatures), and enhance tip life.

Each Metcal tip cartridge is designed for high power delivery, so you can often solder 100°F or more lower than with a conventional iron. For most applications, a 600 Series tip cartridge will provide enough power and flexibility to do the job. Switch to a 700 Series only where absolutely necessary; for example, when working with heavy ground planes. When working with no-cleans or thermally sensitive applications, Metcal's 500 Series tip cartridges are an excellent choice.

Cat. No.	Series	Description	Net Price
<b>1/32 CONICAL SHARP</b>			
SSC-501A	500 Series	For light duty applications requiring extra length.	\$19.33
SSC-601A	600 Series		19.33
SSC-701A	700 Series		19.33
<b>1/64 SHARP (BENT 30°)</b>			
SSC-526A	500 Series	A bent SSC-x22A. Good for SMT touch-up. <i>Not for general throughhole.</i>	19.33
SSC-626A	600 Series		19.33
SSC-726A	700 Series		19.33
<b>1/64 LONG REACH (BENT 30°)</b>			
SSC-554A	500 Series	A long reach SSC-x26A. <i>Not for general throughhole.</i>	19.33
SSC-654A	600 Series		19.33
SSC-754A	700 Series		19.33
<b>MULTI-LEAD SPEED SOLDER</b>			
SSC-539A	500 Series	Designed for drag soldering of fine pitch parts, both gull-wing and J-lead.	31.52
SSC-639A	600 Series		31.52
SSC-739A	700 Series		31.52



## METCAL® QX2 CONVECTION REWORK SYSTEM

The Metcal QX2 Convection Rework System provides a safer environment for delicate components and boards, by minimizing thermal stress using constant temperature and variable power operation.

The controller of the QX2 displays critical process parameters during operation. The time used in the removal cycle is stored and displayed by the controller as a guide for establishing the minimum necessary time to reattach a similar component. The one-button configuration, automation functions, and ease of use minimize variable in procedure.

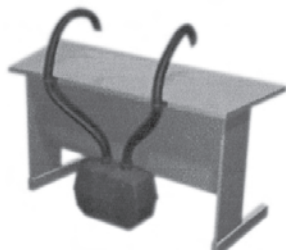
Simplified controls and automation reduce operator training and improve process control, resulting in greater efficiency and lower scrap rates. In addition, an easy-to-use under-board preheater is available to evenly heat boards and prevent warping during rework of large components and multi-layered boards.

To provide maximum speed and flexibility, nozzles can be changed in seconds with a quick-release system, without special tools.

The QX2 Convection Rework System includes; power supply, controller, work tray, nozzle removal tool, power cord, controller cable, preheater controller cable and vacuum cup kit.

Cat. No.	Description	Net Price
<b>QX2-S-11*</b>	115V Convection Rework System	<b>\$4364.54</b>
<b>QX2-SBP-11*</b>	115V Convection Rework System with Board Heater & Preheater	<b>5923.30</b>
<b>QX2-SBH-11*</b>	115V Convection Rework System with Board Heater	<b>4738.64</b>
<b>AC-BH</b>	Board Holder	<b>748.21</b>
<b>AC-PH-11*</b>	115V Preheater	<b>1402.89</b>
<b>AC-BP-11*</b>	Board Holder/115V Preheater Kit	<b>1870.52</b>

**NOTE:** For a complete line of Dual, Quad and Box nozzles contact your Electro Sonic sales representative. \*220V models available upon request.



BVX-201-KIT

## METCAL BVX-200 FUME EXTRACTION SYSTEM

Metcal has developed a compact and portable two-arm fume extraction system that combines strong fan performance with efficient filtration and quiet, flexible operation. Compact enough to go under the workbench, the unit provides multi-user power in a truly portable system that can be easily transported by one person without the strain induced by larger units. The stylish BVX-200 Fume Extraction System features the same motor as the single-armed model, but it has an innovative one-stage impeller design that provides more than double the total free-blowing airflow. Maximum free-blowing airflow is rated at 250m<sup>3</sup>/h, with maximum suction force at 850Pa, the best suction rating in the unit's class and the highest offered by a compact and portable system. The BVX-200 has both

## METCAL BVX-200 FUME EXTRACTION SYSTEM

Metcal has developed a compact and portable two-arm fume extraction system that combines strong fan performance with efficient filtration and quiet, flexible operation. Compact enough to go under the workbench, the unit provides multi-

Cat. No.	Description	Net Price
<b>FILTER UNITS</b>		
<b>BVX-201-KIT</b>	Filter unit with 2 flexible arms, 4' long, Pre/HEPA/Gas	<b>\$904.08</b>
<b>BVX-201</b>	Filter unit for 2 stations, Pre/HEPA/Gas	<b>745.71</b>
<b>BVX-203</b>	Filter unit for 2 stations, Pre/Deep Bed Gas	<b>835.50</b>
<b>EXHAUST ARM KIT</b>		
<b>BVX-ARM-K1</b>	One BVX arm 2' long with 6' long hose and table bracket	<b>168.35</b>
<b>REPLACEMENT FILTERS</b>		
<b>FP-BVX200</b>	Pre-filter (Pack of 5)	<b>61.10</b>
<b>FM-BVX200</b>	Main filter, HEPA 99.95%/Carbon	<b>110.98</b>
<b>FG-BVX200</b>	Deep bed gas filter	<b>205.76</b>
<b>ACCESSORY COMPONENTS</b>		
<b>BVX-ARML</b>	Exhaust arm flexible, Ø2" and 4' long, ESD safe	<b>97.27</b>
<b>BVX-ARM</b>	Exhaust arm flexible, Ø2" and 2' long, ESD safe	<b>64.22</b>
<b>BVX-TB01</b>	Table bracket with 2 C-clamps	<b>52.37</b>
<b>BVX-CHO1</b>	Connection hose, Ø2" x 6' long	<b>52.37</b>
<b>BVX-CHO2</b>	Connection hose, Ø2" x 12' long	<b>89.78</b>



## METCAL HIGH VOLUME EXTRACTION

The **VX Series** of products are designed for high volume extraction from arms and plenums. Depending on your application, a choice of three filtration levels is available for each system. **VX501 SPECIFICATIONS:** Static Pressure: 5 in of H<sub>2</sub>O. Flow Rates: 350 CFM Free Blowing. Noise Level: 55 dBA. Weight: 80 lbs. Input Port: 2 x 75mm dia. Size H x W x D: 26" x 17" x 16". Max duct run: 20' per port. (75mm dia). Voltage: 105-125 VAC. Frequency: 60 Hz. Power: 250 W. Amps: 4 A.

### INTERFACE ACCESSORIES

Type	Max No	Max Capture Area
32mm arms	6	5" dia
50mm arms	4	8" dia
75mm arms	2	12" dia
50mm plenums	4	5"
75mm plenums	2	10"

Continued on next page....

# Weller®



WHA3000P



WHA3000PS

## WELLER WHA3000P DIGITAL 700W HOT AIR STATION WITH BUILT-IN TURBINE

**FEATURES AND BENEFITS:** Suitable for repairs of fine-pitch components with large number of leads. The hot air pencil has vacuum pickup for easy component removal. The vacuum pickup feature is activated automatically during the process. The unit can be programmed with a 3-step temperature time profile. Bright, clear LCD for easy reading of the parameter settings. Comes with AKT30 Stop and Go Support Stand. Temperature range: 122°F to 1022°F. Temperature accuracy: ±77°F.

Cat. No.	Net Price
WHA3000P	\$2500.00

## WELLER WHA3000PS DIGITAL 700W HOT AIR STATION WITH BUILT-IN TURBINE

**SAME AS ABOVE ONLY WITH THESE ADDED FEATURES AND BENEFITS:** Head has a lever to lower or raise the head in the z direction. Standby mode reduces the nozzle temperature and air flow rate. Switches into standby when the head is swiveled. Heating plate heats up the component from below to the correct temperature.

Cat. No.	Net Price
WHA3000PS	\$6750.00



## WELLER WHAT 300 SELF-CONTAINED HOT AIR REWORK STATION

**FEATURES AND BENEFITS:** Low cost 700 watt hot air station handles most bench top rework jobs. Compact design maximized workspace efficiency. Temperature and air flow are controlled on the top panel. Built-in hand piece holder saves bench space.

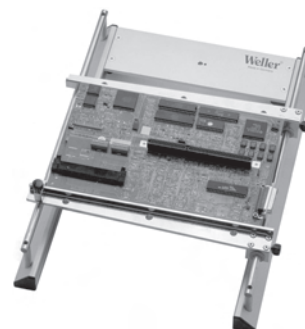
Cat. No.	Net Price
WHA3000	\$1041.66



## WELLER WBH300S PCB HOLDER WITH PIVOTING HOT AIR TOOL HOLDER

**FEATURES AND BENEFITS:** Holds circuit boards up to 310 x 320 mm in the x-y direction. HAP3 hot air pencil (WHA3000P) can be held at the head of the PCB holder. Head has a lever to lower or raise the head in the z direction. Head can be swiveled to the right or left of the working area. WHA3000P switches into Standby when the head is swiveled. Standby mode reduces the nozzle temperature and air flow rate. The WHP3000 heating plate can be slid under the PCB holder.

Cat. No.	Net Price
WBH3000S	\$3333.33



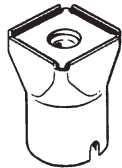
## WELLER WBH3000 PCB HOLDER

**FEATURES AND BENEFITS:** Holds circuit boards up to 310 x 320 mm in the x-y direction. The WHP3000 heating plate can be slid under the PCB holder. Same as WBH3000S but without pivoting hot air tool holder.

Cat. No.	Net Price
WBH3000	\$1112.00



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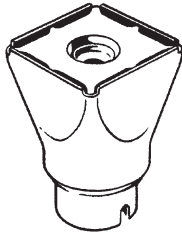
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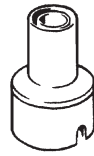
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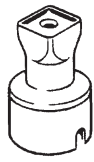
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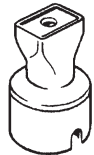
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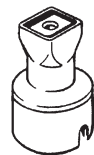
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## HOT AIR NOZZLES FOR WHA500, 700 AND 2000

Cat. No.	Description	Size		Net Price
		mm	mm	
0058736818	Hot air nozzle	14.1	14.1	\$86.19
0058736814	Hot air nozzle	17.7	17.7	86.19
0058736807	Hot air nozzle	20.4	20.4	86.19
0058736839	Hot air nozzle	11	11	86.21
0058736838	Hot air nozzle	14.5	10	86.21
0058736837	Hot air nozzle	15.5	13	86.21
0058736804	Hot air nozzle	25.3	25.3	86.19
0058736843	Hot air nozzle	10	8	86.21
0058736842	Hot air nozzle	14	10	86.21
0058736841	Hot air nozzle	19	12	86.21
0058736840	Hot air nozzle	21.5	14	86.21
0058736833	Hot air nozzle	32	32	108.05
0058736836	Hot air nozzle	11.5 dia.		153.45

### REPLACEMENT PARTS

W58713798	CSF rubber insert—10 per bag—small 3mm	—	36.44
W58713799	CSF rubber insert—10 per bag—large 6mm	—	33.78



## WELLER WHP3000 DIGITAL PREHEATING PLATE, 600W, 120V

**FEATURES AND BENEFITS:** Enables electronic assemblies to be preheated from the bottom. The unit slides easily below the WBH3000S PCB holder. The heating plate heats up the component from below to the correct temp. Equipped with 3 infrared lamps for fast and accurate heat up. Precise temperature control is achieved with the digital electronics. The unit is equipped with Auto-Off and Standby features. Read and set temperatures are indicated digitally. A RS 232 interface allows control by the WHA3000P Hot Air Station. Temperature can be regulated with the use of an optional external sensor.

Cat. No.	Net Price
WHP3000	\$1251.00

SUPERIOR  
LEAD  
FREE  
PERFORMANCE



## WELLER WRS1002 REWORK SYSTEM

The Weller WRS1002 Rework System is a full service rework station. The multiple functions of the WRS1001 make it an ideal rework option. This station has the full capacity of reworking not only IC boards but also SMD. The unit comes equipped with a 100 watt hot air pencil. This hot air pencil temperature is continuously adjustable from 300°F-1,025°F and is accurate within 50°F. The iron comes complete with a stand, funnel, two triplets. The station is completely ESD safe. In addition to the hot air feature, the unit is also capable of running any of the Weller soldering and desoldering tools as well as the Ungar soldering and desoldering tools (ADP1 Adaptor must be used). Power input: 175 watts. Line voltage: 120VAC, 60Hz.

Cat. No.	Net Price
WRS1002	\$1237.50



WRS7000X

WRS3000X  
WRS3000XT

## WELLER REWORK SYSTEMS AND STATIONS

**FEATURES AND BENEFITS:** Self-contained triple channel SMT rework station handle rework and repair of mixed technology boards. Operates three tools simultaneously (e.g., soldering, desoldering, hot plate hot air, thermal tweezers, or thermal stripper) which gives you flexibility. The microprocessor automatically recognizes each tool and activates the operation parameters accordingly. 300 watts of total power cover three independently controlled channels. Built-in pump provides both air and vacuum. Built-in 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 either by a finger switch on the tool or and optional 0051312099 foot switch. A vacuum gauge on the front panel monitors the flow of air through the desoldering tool. A high reading indicates buildup of solder in the desoldering tool. A low reading indicates the need to change the air filter. Lock-out key to maintain process control for set parameters.

Cat. No.	Description	Net Price
0053302299	Control Unit only, no tools	\$1642.13
WRS3000X	Control Unit with DS1203AP 54 Watt High Performance Soldering Iron, 100W HAP1 Hot Gas Pencil, DS58 60 Watt Desoldering Iron, and Stand.	2060.67
WRS3000XT	Control Unit with DS120SAP 54 watt High Performance Soldering Iron, HAP1 Hot Gas Pencil, DS58 Desoldering Iron, 0051317199 Thermal Tweezer, and Stands. Full range of soldering, desoldering, hot air, and tweezer tips and nozzles available. Will accommodate optional select Weller soldering and desoldering irons.	1872.36
WRS4000X	Four Function Rework Station comes complete with: WRS1001 and 0053302299 Rework Systems, EC1204A 54W Iron, DS58 60W Desoldering Tool, HAP1 100W Hot Air Pencil, and 0051317199 Thermal Tweezers.	3177.30
WRS5000X	Five Function Rework Station comes complete with: WRS2000 and 0053302299 Rework Systems, EC1204A 54W Iron, DS58 60W Desoldering Tool, HAP1 100W Hot Air Pencil, and 0051317199 Thermal Tweezers.	4189.93
WRS7000X	Seven Function Rework Station comes complete with: WHA2000, WRS2000 and 0053302299 Rework Systems, 750W Iron, EC1204A 54W Iron, DS58 60W Desoldering Tool, HAP1 100W Hot Air Pencil, and 0051317199 Thermal Tweezers.	6339.28
HAP1	Weller 100 watt, Hot air pencil. Package includes stand funnel, two tiplets as well as a supply of stainless steel tubes for custom designed air nozzles. ESD safe.	290.63
0051312099	Weller Foot Switch. Optional foot switch to operate hot air pencil.	56.30
0051317199	Thermal Tweezers	242.76



## NOZZLES FOR HOT AIR PENCIL (HAP1)

Cat. No.	Type/Shape	Component	Inside Dimensions		Net Price
			mm	inches	
0058727822			3.0 Dia.	0.118 Dia.	\$4.97
0058727823			0.8 Dia.	0.032 Dia.	6.24
0058727772	Flat		12.0x1.50	0.472x0.059	34.31
0058727773	Flat		10.0x1.50	0.394x0.059	35.69
0058727774	Flat		8.0x1.50	0.315x0.059	35.69
0058727775	Flat		10.0x1.50	0.394x0.059	47.27
0058727776	Dual		8.0x1.50	0.315x0.059	33.09
0058727777	Rectangular	PDS06, PDS08	6.0x6.5	0.236x0.256	35.69
0058727778	Rectangular	PDS014	6.0x9.0	0.236x0.354	35.69
0058727779	Square	PDS016L	10.5x10.5	0.413x0.413	76.41
0058727780	Rectangular	PLCC28R	15.0x10.0	0.591x0.394	76.41
0058727781	Rectangular	PDS024	15.0x10.0	0.591x0.394	76.41
0058727782	Rectangular	PDS020	13.0x10.0	0.512x0.394	76.41
0058727783	Rectangular	CLCC32	15.0x12.5	0.591x0.492	76.41
0058727784	Rectangular	PDS028	18.0x10.0	0.709x0.394	76.41
0058727785	Square	PLCC44, QFP61, QFP80	18.0x18.0	0.709x0.709	76.41
0058727786	Bent		2.0 Dia.	0.079 Dia.	45.84
0058727787	Straight		2.0 Dia.	0.079 Dia.	33.23

## TIPS FOR WT50 THERMAL TWEEZERS

Cat. No.	Component	Inside Dimensions		Net Price
		mm	inches	
0054414199	Chip 0405-1805, SOD80, MELF (WAS WT5)	1.0	0.039	\$21.99
0054414399	SO14, SO16, SOJ14, SOJ16 (WAS WT3)	12.5	0.492	40.04
0054414499	SO20, SO20L, SOJ20 (WAS WT1)	18.5	0.728	40.04

NOTE: Tips sold in pairs.



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**LEAD FREE**  
PERFORMANCE

## WELLER WD1 SOLDERING STATIONS

**FEATURES AND BENEFITS:** Three freely programmable and independent fixed temperature buttons. You can preset your often-used temperature settings. Large (67 x 29 mm) and easy-to-read high contrast LCD display. Utilizes modern display technology and gives you extensive information at a glance. Program setback time and temperature to your specifications. Operator lockout by use of a three digit code. Programmable lockout window range so you can restrict temperature settings within a pre-determined range. Programmable temperature offset. An auto-off time can be set from the LCD window. You can program the unit to switch off automatically after any number of minutes (up to 99) of inactivity to save power and tip life. The WSP80 soldering pencil (WD1000) delivers 80 watts of power and a special silver-heating element for low thermal loss and fast recovery, making this unit ideal for continuous production soldering. The WMP soldering pencil (WD1001) has a tip-to-grip distance of just 37-mm for improved accuracy. And with the heating element built into the pencil, replacement tips cost substantially less.

Cat. No.	Description	Net
<b>SOLDERING STATION</b>		
WD1	Digital power unit with temperature presets, 120V	\$209.87
WD2	Dual digital power unit with temperature presets, 120V	322.75
WD1000	Digital soldering station with WSP80 pencil, 120V	335.10
WD1001	Digital soldering station with WSL pencil, 120V	335.10
0051512199	WDH10 holder for WSP80, adjustable tilt angle	44.09
0051512299	WDH20 holder for WSL, adjustable tilt angle	44.09

SUPERIOR  
**LEAD FREE**  
PERFORMANCE



## WELLER WAD101 SILVER SERIES HOT AIR REWORK STATION

**FEATURES AND BENEFITS:** Digital process control for exact temperature set give you control over the process. Compact design ideal for reflow soldering, desoldering, and rework in series production of SMT components. Electronically controlled power unit allows adjustable temperature of low voltage pencil. Requires compressed nitrogen or shop air. Air flow actuated by a finger switch on the hot air pencil. Gas flow is adjustable using knob on the side of the power unit. Supports the WSP80 Silver Series soldering pencil as well as other Weller

soldering irons. Uses a Complete range of hot air nozzles found in the Weller section. ESD safe to protect sensitive components. Programmable using the optional WCB1 calibration unit. Allows for temperature lock-out (process control), temperature set-back (extended tip life) and degrees F to degrees C conversion. UL and cUL listed. Input voltage: 120V. Power consumption: 100W. Temperature range: 122°F–1022°F/50°C–550°C. Footprint: 4.5 x 5.9 x 3.6 in. (114 x 150 x 91mm). Weight (power unit only): 7.6 lbs (3.46 kg). WAD101 comes complete with power unit, hot air pencil, hot air nozzle, iron stand and sponge, compressed air tube 2mm long and midjet nutdriver.

Cat. No.	Description	Net Price
0053267599	Complete Hot Air Station	\$838.97

## REPLACEMENT PARTS AND ACCESSORIES FOR EC1001, EC2001, EC1001ESD, EC2001ESD, EC1002-1CSA, EC1002-2CSA, EC1002-3CSA

Cat. No.	Description	Net Price
EC1201A	Soldering Iron With ETA Tip	\$144.09
EC1302B	Soldering Iron With EPH101 Tip, Pencil Type	150.51
EC1503B	Soldering Iron With EMA Tip, Pencil Type	175.01
PH1201ESD	Iron Stand	32.84
SW120	Switch	21.89
EC205	Sponge	2.46
EC234	Plug-in Heater For EC1201A, And Old Style Irons	22.80
EC229A	Sensor Assembly For Old Style EC Series	71.82
EC243	Display/Control Board F For Old Style EC Series	212.97
EC233	Cord Assembly Set For Old Style EC Series	41.63
BA60	Nut Assembly For Old Style EC Series And EC1201A	8.31

## REPLACEMENT PARTS AND ACCESSORIES FOR EC3001, EC4001, EC3001ESD, EC4001ESD, EC2002-1CSA, EC2002-2CSA, EC2002-3CSA, EC2002M SERIES

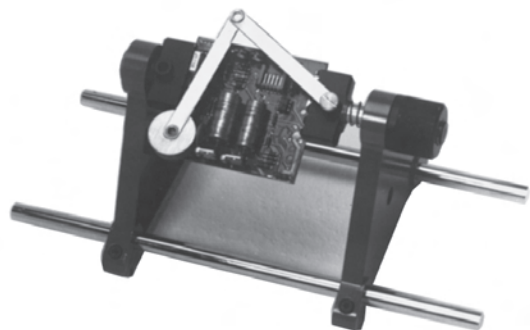
Cat. No.	Description	Net Price
EC1201A	Soldering Iron With ETA Tip	\$144.09
EC1302B	Soldering Iron With EPH101 Tip, Pencil Type	150.51
EC1503B	Soldering Iron With EMA Tip, Pencil Type	175.01
TC205	Sponge	1.52
PH1301ESD	Iron Stand	35.84
EC231	Barrel Nut Assembly For Old Style EC Series	11.16
TC204	Spring And Funnel For EC1201A Iron	9.33
0051317199	Thermal Tweezers (Was WT50)	242.76



## WELLER WTC100 STAINED GLASS STATION

**FEATURES AND BENEFITS:** On/off switch with "power-on" indicator light. Variable power control produces 5–40 watts. Quality lightweight pencil iron. Cushioned foam grip with replaceable heating element. Ideal for hobbyist, DIY'ers and students. Synthetic guard iron holder. Natural sponge tip cleaning pad. Includes ST3 iron plated copper tip. Uses ST tips found in Weller section. UL listed, cUL version available. Input voltage: 120V. Temperature range: 900°F max. Foot print: 4.5 x 5.9 x 3.6 in. (114 x 150 x 91mm). Weight (power unit only): 1.9 lbs. (.87kg).

Cat. No.	Description	Net Price
WLC100CUL	Complete Station with 40 Watt Iron	\$50.99



## WELLER VERSATILE CIRCUIT BOARD VICE-HOLDER

Now Weller brings you complete control for soldering or desoldering printed circuit boards or other projects of almost any shape and size. The work-piece, which is held in place by spring clamps, can be rotated through 360° in increments of 15° allowing work to be performed at any convenient angle. Held in position by a cushioned arm, the components placed in the circuit board can be soldered from the other side by rotating the control knob. A firm work surface is assured by a well positioned centre of gravity and built-in rubber feet. The vice-holder, which is made throughout of quality components, can take a maximum mounting surface of 160 x 235mm (Double Europe) and offers many possibilities for attaching different shaped components, connectors, soldering strips etc. It was specially designed for electronic hobbyists, but can also be used for laboratory, repair work and small production runs.

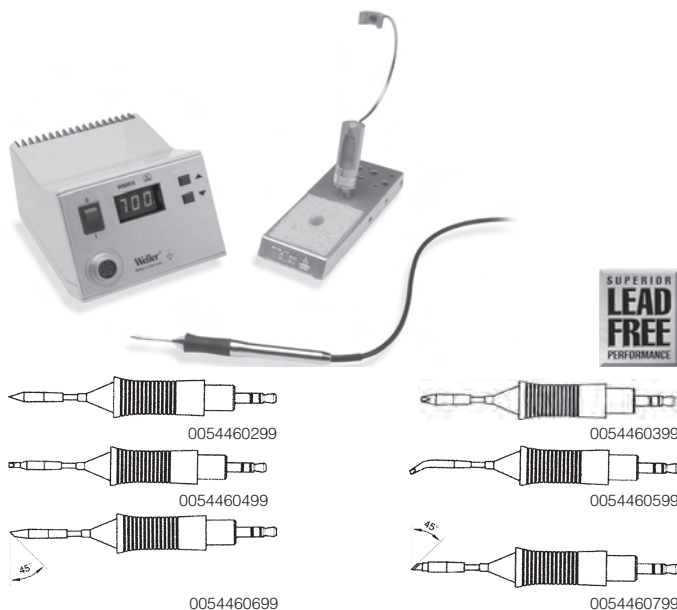
Cat. No.	Description	Net Price
0051502699	Was ESF120ESD	\$70.50



## WELLER WES51 WIRELESS TEMPERATURE LOCKOUT SOLDERING STATION

Wireless temperature lockout to prevent operators from raising the temperatures to levels other than specified for the board or component. Gives you control over the process. Designed for continuous production soldering. Innovative heater and sensor combination gives you quick heat up and rapid temperature recovery. Slip, comfortable hand piece reduces operator fatigue. Tip temperature off-set capability which provides the user with the capability of resetting station temperature readings to match in tip sizes and styles. UL and cUL listed. Uses a complete range of ET tips found in the Weller section. ESD Safe. **SPECIFICATIONS:** Input Voltage: 120V. Output Voltage: 24V. Temperature Accuracy: Calibrated to +/-9°F (+/-5°C). Temperature Stability: +/-10°F (+/-6°C). Weight: 3.93 lbs. Dimensions: 6-1/2" x 4-1/2" x 4" (165 x 114 x 102cm).

Cat. No.	Description	Net Price
WES51	Analog soldering station comes complete with power unit, soldering pencil, ETA tip and stand with sponge.	\$154.00
WESD51	Digital soldering station comes complete with power unit, soldering pencil, ETA tip and stand with sponge.	184.00



## WELLER WMRS MICRO REWORK SOLDERING STATION

**FEATURES AND BENEFITS:** Designed for fine pitch, high density SMT soldering and rework. Digital electronics. The heating element is contained in the tip for fast heat-up. Pencil is made of aluminum with chrome plating and weighs just 75 g. The pencil powers down when placed in the holder to extend tip life. The pencil has a Reed switch to give you auto-off capability. The "tip to grip" distance is 45 mm, placing you close to the work. A swivel head on the stand allows for adjustment of the pencil tilt angle. A receptacle for depositing hot tips is mounted on the side of the stand. Uses RT Series tips.

Cat. No.	Description	Net Price
WMRS	Micro rework soldering station	\$491.99

### SOLDERING TIPS FOR WMRS

0054460299	.016" Needle	35.27
0054460399	.051" Needle	35.27
0054460499	.059" Needle	35.27
0054460599	.031" Needle	35.27
0054460699	.047" Needle	35.27
0054460799	.110" Needle	37.04

## SOLDERING TIPS FOR MT1500 SOLDERING STATIONS

### STANDARD TIPS

Cat. No.	Description	Net Price
<b>CONICAL</b>		
MT302	Conical Sharp, .015 x .200L	\$67.22
MT606	Conical Sharp, .016 x .530L	68.63
MT609	Conical Sharp, .023 x .600L	68.63
MT613	Conical Sharp, .020 x .530L	68.63

### CONICAL BENT

MT303	Conical Bent, 30 deg., .015 x .320L	67.22
MT603	Conical Bent, 30 deg., .020 x .600L	67.22
MT605	Conical Bent, (Sharp) 30 deg., .016 x .560L	68.63

### CHISEL

MT611	Chisel, .060 x .610L	68.63
MT614	Chisel, .100 x .190L	68.63

### BEVEL

MT607	Bevel, 30 deg., .020 dia. x .580	67.22
MT608	Bevel, 30 deg., .040 dia. x .560	66.32

### SCREWDRIVER

MT211	Screwdriver, .045W x .015THK x 1.0L	65.10
MT212	Screwdriver, .045W x .005THK x 1.0L Non-Wet	74.54
MT301	Screwdriver, .047 x .200L	67.22
MT601	Screwdriver, .070 x .385L	67.22
MT602	Screwdriver, .100 x .390L	68.63
MT604	Screwdriver, .060 x .390L	68.63
MT610	Screwdriver, .200 x .350L	68.63
MT620	Calibration Tip—600 Series	68.63

### SURFACE MOUNT TIP

Cat. No.	Description	Net Price
<b>SIP</b>		
MT617	SIP (Blade) .410L	\$142.28