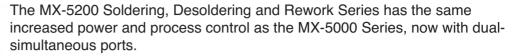
MX-5200 Dual Simultaneous

Soldering, Desoldering & Rework Systems



For two users or single user with dual applications. The MX-5200 can be operated with two hand-pieces dynamically sharing the 80 watts output power based on demand adding even more application flexibility and speed.

Fast time-to-recovery. Delivers increased production rates and throughput no matter the application. The challenges of high mass components, multilayered boards and lead-free solders are seamlessly tackled by the MX-5200 super-charged power supply.

SmartHeat process control. The technology built-in every Metcal System means that soldering and rework are always performed at safe, controlled temperatures. Metcal users know that moderate fixed temperatures, where power is varied, provides the best assurance for a well controlled soldering and rework process.

TipSaver™ Workstand improves tip life as well as operator ergonomics. This "Auto-Sleep" Workstand reduces the power to the hand-piece when it is placed in the Metcal TipSaver™ Workstand.

Reduction in power will substantially decrease tip oxidation, a major cause of reduced tip life.

Ergonomic Hand-pieces. The aluminium hand-pieces for soldering and rework provides a cooler, lighter weight and more comfortable feel for the operator. And, the Metcal UltraFine™ Hand-piece features a new generation of extremely fine diameter cartridges in a slim profiled handle. Both of these hand-pieces uniquely offer users a choice of three interchangeable grips.

ESD safe and features incoming AC ground monitoring circuitry. The AC (mains) ground monitor detects power line ground failure, immediately alerting the operator and shuting down the system. Only after the power line ground has been restored can the MX-5200 be restarted and soldering operations can be resumed.

Built-in power indication meter with digital display and bar graph that visually provides the operator with feedback on the status of the soldering operation. Whether using a large mass rework tip for QFPs or a fine-point soldering tip, the power indication meter is a valuable resource for making consistent, acceptable solder joints.

Four mode indicators:

Ready Mode: The hand-piece is removed from the workstand, ready for soldering or rework.

Power Mode: The hand-piece's tip is in contact with the load. The power indication meter provides graphical and numeric feedback on the system power output.

Sleep Mode: The hand-piece is at rest in the workstand; power is reduced to the hand-piece.

Powersave Mode: Power to the hand-piece is shut off. This programmable sleep feature allows an operator to set the desired time to cut off power to the hand-piece (from 10 to 120 min.).

MX-5200 Dual Simultaneous

Soldering, Desoldering & Rework Systems

SYSTEMS CONFIGURATION

PART	MX-PS5200 Power Supply	Hand-pieces				TipSaver™ Workstands			
NUMBER		MX-H1-AV	MX-H2-UF	MX-PTZ	MX-DS1	MX-W1AV	MX-W4PT	MX-W5DS	
MX-5210	~	~				~			
MX-5211	~	~ ~				~ ~			
MX-5220	~		~			~			
MX-5241	~	~		~		~	~		
MX-5250	~				✓			~	
MX-5251	~	~			~	~		~	

SYSTEMS WITH ONE HAND-PIECE

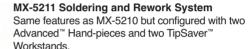
MX-5210 Soldering and Rework System

Configured with the Advanced™ Hand-piece. Highly effective for soldering applications including: lead-free, high mass components or boards, thermally sensitive components requiring low operating temperature, high volume production

soldering and touch-up soldering operations.

> Soldering cartridges: STTC Series and **SMTC Series**

SYSTEMS WITH TWO



MX-5241 Precision Tweezers, Soldering and



Soldering cartridges: STTC Series and **SMTC Series**



UFTC cartridges featuring small tip geometries and low mass, suited for small part soldering.



Tweezer cartridges: PTTC Series. Soldering Cartridges: STTC and SMTC Series





Desoldering cartridges: STDC Series provides fast, high quality results

NOTE: Unit requires shop air for desoldering.



MX-5251 Soldering, Desoldering and Rework System For through-hole desoldering, general soldering, and SMD rework applications. Includes two hand-pieces: the Advanced™ Hand-piece and the MX-DS1 Desoldering hand-piece. Ideal for mixed technology boards. Provides versatility for adressing soldering & rework tasks.

> Desoldering cartridges: STDC Series Soldering cartridges: STTC and SMTC Series.

NOTE: Unit requires shop air for desoldering.

MX-500 Dual Switchable Output

Soldering, Desoldering & Rework Systems

Metcal's MX-500 Soldering and Rework System has been reimagined, adding features and a new look to a bench top icon. The system utilizes SmartHeat® Technology, where each cartridge is equipped with a self-regulating heater which 'senses' its own temperature and closely maintains its pre-set idle temperature for the life of the heater-tip. The tip temperature is determined by the inherent metallurgical properties of the heater; no external adjustment or equipment is required. The MX-500 retains switchable dual port, 40W operation while introducing numerous new features in a new housing.



Key Features & Benefits

- A built in Net Power Meter which will display a graphical and numerical representation of the power applied to the cartridge.
- User Programmable PowerSave Mode: the time to enter PowerSave Mode is adjustable from 10 to 120 minutes.
- Ground Fault Interrupt: AC ground monitor detects power line ground failures and immediately alerts the operator and shuts down the system.
- Universal Power Supply: automatically senses the input line voltage and adjusts accordingly, which allows for worldwide operation without adaptors or a change in performance.
- Full compatibility with existing and previous MX upgrade kits, tip-cartridges, hand-pieces and accessories.

SYSTEM WITH ONE HAND-PIECE



MX-500S Soldering / Rework

Power supply, MX-RM3E soldering and rework hand-piece and WS1 sleeper workstand

Soldering cartridges: STTC Series and SMTC Series



System
Power supply, MX-H1-AV
Advanced™ hand-piece and
MX-W1AV workstand

Soldering cartridges:

STTC Series and SMTC Series

MX-500UF Ultrafine™ Soldering System

Power supply, MX-H2-UF Ultrafine™ hand-piece and MX-W1AV workstand

Soldering cartridges: UFTC Series

SYSTEMS WITH TWO HAND-PIECES



MX-500SPT Rework System

Power supply, MX-PTZ precision tweezer hand-piece with MX-W4PT TipSaver workstand and MX-RM3E soldering and rework hand-piece and WS1 sleeper workstand.

Tweezer cartridges: PTTC Series. Soldering Cartridges: STTC and SMTC Series



MX-500DS Desoldering System

Power supply, MX-DS1 desoldering handpiece with MX-W5DS TipSaver workstand and MX-RM3E soldering and rework handpiece and WS1 sleeper workstand.

Desoldering cartridges: STDC Series Soldering cartridges: STTC and SMTC Series.

NOTE: Unit requires shop air for desoldering.

POWER SUPPLY WITH NO HAND-PIECE



MX-500P

MX-500 dual port switchable power supply

NOTE: Additional Hand-pieces and Upgrade Kits are available, see pages 7 and 8

MX Series Hand-pieces

Soldering, Desoldering & Rework Systems

The MX-500 AND MX-5200 Series offers users a choice of hand-pieces to meet the customer's application needs. Each hand-piece has its own range of cartridges with many choices available for tip geometry and temperature. The hand-pieces below are compatible with existing MX-500 and MX-5200 Systems as well as backward compatible with previous MX-500 and MX-5000 Systems











Hand-pieces	Cartridges

MX-RM3E Metcal Hand-piece





STTC Soldering Cartridges See pages 11-12.

SMTC Rework Cartridges See pages 14-15.

MX-H2-UF Metcal UltraFine™ Hand-piece

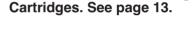
MX-PTZ Metcal Precision Tweezer Hand-piece







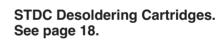




UFTC Ultra Fine Soldering

PTTC Tweezer Cartridges. See page 17.

Also available are TATC Cartridges for the previous TALON hand-piece and the existing MX-TALON-01 upgrade kit. See page 15.





[Hand-pieces and Grips				
İ	MX-H1-AV 1	Metcal Advanced [™] Hand-piece with cord, soldering and rework, two grips included (see *)				
Ì	MX-H1GR 2 Grip Metcal Advanced™ Hand-piece with black sleeve in ring pattern (*)					
	MX-H1GS 3 Grip Metcal Advanced™ Hand-piece with black scallop pattern					
	MX-H1GKG 4	Grip Metcal Advanced™ Hand-piece with green knob pattern (*)				
	MX-H1-BSR-5	Replacement Sleeve only, black ring pattern (pack of 5) - For MX-H1-AV and MX-H1GR				
	MX-H1-BSS-5	Replacement Sleeve only, black scallop pattern (pack of 5) - For MX-H1-AV and MX-H1GS				
	MX-H1-GSK-5	Replacement Sleeve only, green knob pattern (pack of 5) - For MX-H1-AV and MX-H1GKG				
	MX-H2-UF 5	Metcal UltraFine™ Hand-piece with cord, fine soldering, two grips included (see **)				
MX-H2GR 6 Grip Metcal UltraFine™ Hand-piece with black sleeve in ring pattern (**)						
MX-H2GRS 7 Short grip Metcal UltraFine™ Hand-piece with black sleeve in ring pattern						
MX-H2GS Grip Metcal UltraFine™ Hand-piece with black sleeve in scallop pattern						
	MX-H2GKG	Grip Metcal UltraFine™ Hand-piece with green sleeve in knob pattern (**)				
MX-H2-BSR-5 Replacement Sleeve only, black ring pattern (pack of 5) - For MX-H2-UF and MX-H2G						
	MX-H2-BSS-5	Replacement Sleeve only, black ring pattern (pack of 5) - For MX-H2-UF and MX-H2GS				
	MX-H2-GSK-5	Replacement Sleeve only, black ring pattern (pack of 5) - For MX-H2-UF and MX-H2GKG				
	MX-RM3E 8	Metcal Soldering / Rework Hand-piece				
	MX-PTZ 9	Metcal Precision Tweezer Hand-piece, SMD rework				
	MX-DS1 10	Metcal Desoldering Hand-piece				
4	MX-RM8E	Metcal Desoldering Hand-piece Cord for MX-DS1				
	MX-RM5E	Standard Robotic cable (1.83m / 6ft) with connector for Soldering/Rework cartridges				
	MX-RM6E	Metcal Soldering / Rework Hand-piece for long reach cartridge access				

NOTE: Cartridges are not included with hand-pieces. A cartridge removal pad (MX-CP1 see page 8) is included with every hand-piece.

MX Series Accessories

Workstands and Accessories					
MX-W1AV 1	Metcal TipSaver™ Workstand, for Metcal Advanced™ and UltraFine™ Hand-pieces				
MX-W1CR	Cradle for TipSaver™ Workstand, Advanced™ and UltraFine™ Hand-pieces, incl. knobs				
MX-W4PT 2	Metcal TipSaver™ Workstand, for MX-PTZ Hand-piece				
MX-W4CR	Cradle for Metcal TipSaver™ Workstand, MX-PTZ Hand-piece, includes knobs				
MX-W5DS	Metcal TipSaver™ Workstand, for MX-DS1 Hand-piece				
MX-W5CR	Cradle for Metcal TipSaver™ Workstand, MX-DS1 Hand-piece, includes knobs				
WS1 3	Sleeper Soldering Workstand for MX-RM3E hand-piece				
WST	Talon Workstand for MX-TALON hand-piece				
AC-Y10 4	Yellow sponge, pack of 10				
AC-YS3-P	Yellow sponge, pack of 50				
AC-BP 5	Brass pad, pack of 10				
AC-BRUSH	Soft Brass Brush				
MX-CP1 7	Cartridge removal pad				
AC-CK2	Green Lead Free identification ring for STTC cartridges (pack of 50)				

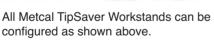
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Accessories for MX-DS1 Desoldering Hand-piece					
MX-DCF1	Chamber Liners (pack of 15) and Filters (pack of 6)				
MX-DCF1L	Chamber Liners (pack of 40)				
MX-DCF1F	Filters (pack of 20)				
AC-TC 8	Desolder Tip Cleaner				
AC-CB1-P	Desolder Chamber Cleaning Brush (pack of 25)				
AC-CB2-P	Tube Cleaning Brush (pack of 6)				
MX-DSL2	Seal Cartridge				
MX-DSB	Swivel Connector				
MX-DLA	Desolder Gun Latch Adjustment (pack of 10)				
MX-DMK1	Maintenance Kit				
MX-DAH4	ESD air hose for MX-DS1 Desoldering Hand-piece				
MX-DSL1	Seal Chamber				
MX-DVC1	Venturi Cartridge				
MX-DAR1	Air Regulator and Filter				











U	PGRADE KITS GUIDE: HAND-PIECE AND WORKSTAND								
PART	Hand-pieces					Workstands			
NUMBER	MX-H1-AV Metcal Advanced™		MX-PTZ Precision Tweezers	MX-DS1 Desoldering	MX-HPDC	MX-W1AV	MX-W4PT	MX-W5DS	MX-WHPDC
MX-UK1	~					~			
MX-UK2		~				~			
MX-UK3					~				~
MX-UK4			~				~		
MX-UK5				~				~	

MX-TALON-01 Upgrade kit is also available for the MX-500 Series. It includes the previous MX-TALON hand-piece and WST workstand (as shown right). The TALON hand-piece is for use with TATC cartridges only.

