# New Metcal MX-500 Soldering and Rework System





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<sup>®</sup> Technology, wherein 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.

#### FEATURES AND BENEFITS

- Integrated Power Indication Meter: 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. Only after the power line ground has been restored, can the MX-500 be restarted and soldering operations can be resumed.
- Universal Power Supply: automatically senses the input line voltage and adjusts accordingly, which allows for worldwide operation without adaptors or a change in performance.
- Compatibility with all MX products: the MX-500 redesign allows full compatibility with existing and previous MX upgrade kits, tip-cartridges, handpieces and accessories.
- Greater process control with SmartHeat® Technology
- Reduced space requirements

## **MX-500 SYSTEMS CONFIGURATION & UPGRADE KITS**

ONE HAND-PIECE SYSTEM

MX-500S Soldering / Rework System Power supply, MX-RM3E soldering and rework hand-piece and WS1 sleeper workstand



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

MX-500DS Desoldering System
Power supply, MX-DS1 desoldering
hand-piece with MX-W5DS TipSaver
workstand and MX-RM3E soldering
and rework hand-piece and WS1
sleeper workstand

#### POWER SUPPLY WITHOUT HAND-PIECE

MX-500P: MX-500 dual port switchable power supply

#### **UPGRADE KITS**

**MX-UK1:** MX-H1-AV Advanced Soldering and Rework Hand-piece with MX-W1AV TipSaver Workstand

**MX-UK2:** MX-H2-UF Ultra Fine Soldering and Rework Hand-piece with MX-W1AV TipSaver Workstand

**MX-UK4:** MX-PTZ Precision Tweezers Hand-piece with MX-W4PT TipSaver Workstand

**MX-UK5:** MX-DS1 Desoldering Hand-piece with MX-W5DS TipSaver Workstand

**MX-TALON-01:** MX-Talon Tweezer Handpiece with WST Workstand





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### HAND-PIECES AND CARTRIDGE SERIES

The MX-500 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.



These six hand-pieces are compatible with the Metcal MX-500 and MX-5200 Soldering and Rework Systems.

#### **ACCESSORIES**

AC-Y10	Yellow sponge, pack of 10	WS1	Sleeper Soldering Workstand
AC-BP	Brass pad, pack of 10	MX-W1AV	TipSaver Soldering Workstand
AC-BRUSH	Soft Brass brush	MX-W4PT	TipSaver Precision Tweezer Workstand
MX-CP1	Cartridge removal pad	MX-W5DS	TipSaver Desoldering Workstand
AC-TC	Desolder Tip Cleaner	WST	Talon Workstand

### **TECHNICAL SPECIFICATIONS**

10 to 40°C	
55°C	
100 – 240 VAC, grounded circuit	
50/60 Hz	
70 Watts	
40 Watts max. *	
13.56 MHz *	
12.1cm (4.8") x 12.1cm (4.8") x 22.2cm (8.8")	
cNRTLus, CE	
<2mV	
<2 ohms	
± 1.1°C in still air	
L=183cm (72"), burn proof, ESD safe	
F connector	
2.65 Kg (5.85 lbs)	

<sup>\*</sup> RF SmartHeat Technology provides greater power. More details at www.metcal.com/smartheat







