

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® 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, hand-pieces 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



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



TWO HAND-PIECE SYSTEMS

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



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 Hand-piece with WST Workstand



HAND SOLDERING SERIES

www.metcal.com

METCAL

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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.

MX-RM3E



MX-H1-AV



MX-H2-UF



TALON



MX-PTZ



MX-DS1



STTC Soldering & SMT Rework



UFTC Ultra-Fine



TATC TALON



PTTC Tweezers



STDC Desolder



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

| | |
|-----------------------------------|---|
| Ambient Operating Temperature | 10 to 40°C |
| Maximum Enclosure Temperature | 55°C |
| Input Line Voltage | 100 – 240 VAC, grounded circuit |
| Input Line Frequency | 50/60 Hz |
| Rated Power Consumption | 70 Watts |
| Output Power | 40 Watts max. * |
| Output Frequency | 13.56 MHz * |
| Power Supply Dimensions w x d x h | 12.1cm (4.8") x 12.1cm (4.8") x 22.2cm (8.8") |
| Certification / Marking | cNRTLus, CE |
| Tip-to- Ground Potential | <2mV |
| Tip-to-Ground Resistance | <2 ohms |
| Idle Temperature Stability | ± 1.1°C in still air |
| Hand-piece Cable Length | L=183cm (72"), burn proof, ESD safe |
| Hand-piece Connector | F connector |
| Weight of the power supply | 2.65 Kg (5.85 lbs) |

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

www.metcal.com

10/2013



HAND SOLDERING SERIES

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