

# MX-5200 Series Dual Simultaneous Soldering Systems

## Data Sheet



**The MX-5200 Soldering, Desoldering and Rework Series** offers the same increased productivity and process control as the MX-5000 Series, but with dual-simultaneous ports. 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.



### 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



#### **MX-5220 UltraFine™ Soldering System**

Configured with the UltraFine™ Soldering Hand-piece which is a specialty tool for soldering and touch-up of very small components, restricted access or high-density component packaging on a PCB. Soldering cartridges: new range of UFTC cartridges featuring small tip geometries and low mass, suited for small part soldering.



#### **MX-5250 Plated-Through-Hole Component Desoldering System**

Includes the MX-DS1 Desoldering hand-piece designed for through-hole desoldering. Desoldering cartridges: STDC Series provide assurance for fast, high-quality results.



### SYSTEMS WITH TWO HAND-PIECES

#### **MX-5211 Soldering and Rework System**

Same features as MX-5210 but configured with two Advanced™ Hand-pieces and two TipSaver™ Workstands. Soldering cartridges: STTC Series and SMTC Series



#### **MX-5241 Precision Tweezers, Soldering and Rework System**

Combines both the Advanced™ Hand-piece and the Precision Tweezers Hand-piece. Users get maximum application flexibility for soldering and reworking the widest range of surface mount components. Soldering cartridges: PTTC Series, STTC and SMTC Series



#### **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 addressing soldering & rework tasks. Soldering cartridges: STTC and SMTC Series. Desoldering cartridges: STDC Series



# MX-5200 Series Dual Simultaneous Soldering Systems

## Data Sheet



### SYSTEM CONFIGURATIONS

PART NUMBER	MX-PS5200 Power Supply	Hand-pieces				TipSaver™ Workstands		
		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	✓	✓			✓	✓		✓

### HAND-PIECES & CARTRIDGES

The 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.



**MX-H2-UF**  
UltraFine™ Hand-piece  
UFTC Cartridges



**MX-PTZ\***  
Precision Tweezer  
Hand-piece  
PTTC Cartridges



**MX-H1-AV\***  
Advanced™ Hand-piece  
STTC & SMTC\*\* Cartridges



**MX-DS1\***  
Desoldering Hand-piece  
STDC Cartridges



**MX-H6-HTD**  
High Thermal Demand  
Hand-piece  
HTC Cartridges



\* The MX-H2-UF, MX-H1-AV, MX-PTZ and MX-DS1 hand-pieces are backward compatible with the Metcal MX-500 Soldering and Rework System.

\*\* The STTC and SMTC cartridges are also compatible with the Metcal MX-500 Soldering and Rework System and the MX-RM3E.

# MX-5200 Series Dual Simultaneous Soldering Systems

## Data Sheet



### ACCESSORIES

<b>MX-H1-BSR-5</b>	SLEEVE, BLACK, ADV HP GRIP, RING PATTERN (QTY=5)
<b>MX-H1-BSS-5</b>	SLEEVE, BLACK, ADV HP GRIP, SCALLOP PATTERN (QTY=5)
<b>MX-H1-GSK-5</b>	RUBBER GRIP, KNOB GREEN, MX-5000
<b>MX-H2-BSR-5</b>	SLEEVE, BLACK, UF HP GRIP, RING PATTERN (QTY=5)
<b>MX-H2-BSS-5</b>	SLEEVE, BLACK, UF HP GRIP, SCALLOP PATTERN (QTY=5)
<b>MX-H2-GSK-5</b>	RUBBER GRIP, UFHP GRIP, KNOB GREEN, MX-5000

### TECHNICAL SPECIFICATIONS

<b>Ambient Operating Temperature</b>	10 - 40 °C
<b>Maximum Enclosure Temperature</b>	55 °C
<b>Input Line Voltage</b>	100 - 240 VAC, grounded circuit
<b>Input Line Frequency</b>	50/60 Hz
<b>Power Consumption</b>	125W
<b>Output Power</b>	80 Watts max. per channel at 22°C ambient temperature
<b>Output Frequency</b>	13.56 MHz
<b>Power Cord 3-Wire</b>	183 cm (72") SJT
<b>Power Supply Dimensions w x d x h</b>	12.1 cm (4.8") x 13.0 cm (5.1") x 23.5 cm (9.3")
<b>Certification / Marking</b>	cTUVus, CE
<b>Tip-to-Ground Potential</b>	<2mV
<b>Tip-to-Ground Resistance</b>	<2 ohms
<b>Idle Temperature Stability</b>	± 1.1°C in still air
<b>Hand-piece Cable Length</b>	L=122 cm (48"), burn proof, ESD safe
<b>Hand-piece Connector</b>	F connector
<b>Workstand Dimensions w x d x h</b>	8.6 cm (3.4") x 19.1 cm (7.5") x 8.3 cm (3.3")
<b>Weight of the power supply</b>	7.4 lbs (3.35 kg)
<b>Weight of the workstand</b>	1.05 lbs (.476 kg)

**Authorized Distributor**  
**Mectronics Marketing Services**  
 313, 2nd Floor, Patparganj Industrial Area,  
 New Delhi - 110092 (India)  
 Tel : +91 (011)-43041581 / 42208256  
 E-Mail : [mectronics@mectronics.in](mailto:mectronics@mectronics.in)  
 Web : [www.mectronics.in](http://www.mectronics.in)

**For Sales  
and Support:**

Metcal Corporate Headquarters  
 10800 Valley View Street,  
 Cypress, California, 90630, USA  
 Tel: 1-714-799-9910  
 Fax: 1-714-828-2001  
 E-mail: [eorders@okinternational.com](mailto:eorders@okinternational.com)

Visit our website for more information and to contact  
 the Metcal office nearest you.

[metcal.com/contact-us](http://metcal.com/contact-us)

