

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



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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.

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ACCESSORIES

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

TECHNICAL SPECIFICATIONS

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

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