

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	3 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)

For Sales and Support:

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MX-H9-MFH

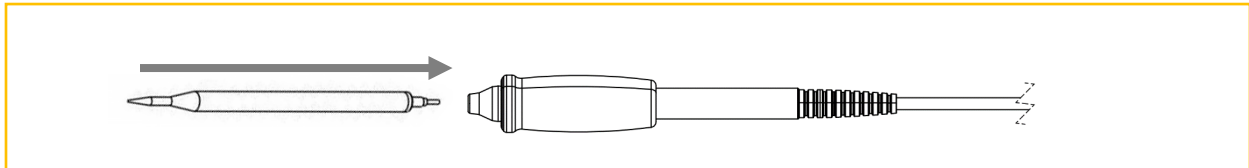
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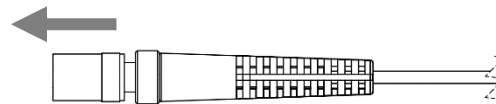


MicroFine Solder Handpiece for MX Systems
Pièce à souder MicroFine pour systèmes MX
Mikrofeines Löthandstück für MX-Systeme
Manipolo a saldatura MicroFine per sistemi MX
Pieza de mano de soldadura MicroFine para sistemas MX
适用于 MX 系统的 MicroFine 焊接手柄
MX 시스템용 MicroFine はん다付け핸드피스
MX 시스템용 초미세 솔더 핸드피스

Metcal MX-H9-MFH MicroFine solder handpiece and compatible tips are designed for work under the microscope.
La pièce à souder MicroFine MX-H9-MFH de Metcal et les embouts compatibles sont conçus pour fonctionner au microscope.
Das Metcal MX-H9-MFH MicroFine Löthandstück und die kompatible Spitzen sind für Arbeit unter dem Mikroskop konzipiert.
Il manipolo per saldatura Metcal MX-H9-MFH MicroFine e le punte compatibili sono progettati per il lavoro al microscopio.
La pieza de mano de soldadura Metcal MX-H9-MFH MicroFine y las puntas compatibles están diseñadas para trabajar bajo el microscopio.
Metcal MX-H9-MFH MicroFine 焊接手柄和兼容吸头专为在显微镜下工作而设计。
Metcal MX-H9-MFH MicroFine はん다付け핸드피스와 호환성 있는 팁은 현미경에서의 작업에 설계되어 있습니다.
Metcal MX-H9-MFH MicroFine 초미세 솔더 핸드피스 및 호환 팁은 현미경으로 작업하도록 설계되었습니다.



Handpiece connects to Metcal MX Systems
La pièce à main se connecte aux systèmes Metcal MX
Das Handstück wird an Metcal MX-Systeme angeschlossen
Il manipolo si collega ai sistemi MX Metcal
La pieza de mano se conecta a los sistemas Metcal MX
手柄连接到 Metcal MX 系统
핸드피스는 금속製 MX 시스템에接続합니다
핸드피스는 Metcal MX 시스템에 연결됩니다



Part Number	Description
MX-H9-MFH	MX MicroFine Handpiece
MFH-WS9	MicroFine Handpiece Workstand
MX-UK9	MX MicroFine Handpiece and Workstand

7027-2670

MX-H9-MFH

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Specifications	
Weight	< 12 gm
Length	115 mm
Cable Length	1.9 m

Specifications	
Cable Thickness	3.5 mm
Max. Temp @ grip	42 °C
Grip	Replaceable

MicroFine Handpiece Cartridges

Temperature Guide

	Max. Temp.	Application
MFTC-6	675 °F / 357 °C	Temperature sensitive applications
MFTC-7	775 °F / 413 °C	Most general applications

Part Numbers, Geometries, and Dimensions

Part Number	Geometry	Description	Dimensions
MFTC-6CH5002 MFTC-7CH5002	Chisel	SOLDER TIP CART, CHISEL, 0.2 mm x 5 mm, MF	0.2 mm x 5 mm
MFTC-6CH5004 MFTC-7CH5004	Chisel	SOLDER TIP CART, CHISEL, 0.4 mm x 5 mm, MF	0.4 mm x 5 mm
MFTC-6CH5006 MFTC-7CH5006	Chisel	SOLDER TIP CART, CHISEL, 0.6 mm x 5 mm, MF	0.6 mm x 5 mm
MFTC-6CH5008 MFTC-7CH5008	Chisel	SOLDER TIP CART, CHISEL, 0.8 mm x 5 mm, MF	0.8 mm x 5 mm
MFTC-6CH5012 MFTC-7CH5012	Chisel	SOLDER TIP CART, CHISEL, 1.2 mm x 5 mm, MF	1.2 mm x 5 mm
MFTC-6CN5001 MFTC-7CN5001	Conical	SOLDER TIP CART, CONICAL, 0.1 mm x 5 mm, MF	0.1 mm x 5 mm
MFTC-6CNR5001 MFTC-7CNR5001	Conical	SOLDER TIP CART, CONICAL REACH, 0.1 mm x 5 mm, MF	0.1 mm x 5 mm
MFTC-6CN5003 MFTC-7CN5003	Conical	SOLDER TIP CART, CONICAL, 0.3 mm x 5 mm, MF	0.3 mm x 5 mm
MFTC-6CN5005 MFTC-7CN5005	Conical	SOLDER TIP CART, CONICAL, 0.5 mm x 5 mm, MF	0.5 mm x 5 mm
MFTC-6CNB4501 MFTC-7CNB4501	Conical Bent	SOLDER TIP CART, CONICAL BENT, 0.1 mm x 4.5 mm, MF	0.1 mm x 4.5 mm
MFTC-6CNBR4501 MFTC-7CNBR4501	Conical Bent	SOLDER TIP CART, CONICAL BENT REACH, 0.1 mm x 4.5 mm, MF	0.1 mm x 4.5 mm
MFTC-6CNB5602 MFTC-7CNB5602	Conical Bent	SOLDER TIP CART, CONICAL BENT, 0.2 mm x 5.6 mm, MF	0.2 mm x 5.6 mm
MFTC-6CNB4503 MFTC-7CNB4503	Conical Bent	SOLDER TIP CART, CONICAL BENT, 0.3 mm x 4.5 mm, MF	0.3 mm x 4.5 mm
MFTC-6CNB4505 MFTC-7CNB4505	Conical Bent	SOLDER TIP CART, CONICAL BENT, 0.5 mm x 4.5 mm, MF	0.5 mm x 4.5 mm
MFTC-6HF5006 MFTC-7HF5006	Hoof	SOLDER TIP CART, HOOV, 0.6 mm x 5 mm, MF	0.6 mm x 5 mm
MFTC-6CC5007 MFTC-7CC5007	Slot	SOLDER TIP CART, CHISEL SLOT, 0.7 mm x 5 mm x 1.0 mm, MF	0.7 mm x 5 mm

For Sales & Support

Please visit Metcal's website (metcal.com) where you will find available information on systems, accessories, technical notes, and more.
Visitez le site Web de Metcal (metcal.com) où vous trouverez les informations disponibles sur les systèmes, les accessoires, les notes techniques, etc.
Auf der Website von Metcal (metcal.com) finden Sie Informationen über Systeme, Zubehör, technische Hinweise und mehr.
Visite el sitio web de Metcal (metcal.com), donde encontrará información disponible sobre sistemas, accesorios, notas técnicas y más.
请访问 Metcal 的网站 (metcal.com)，在这里您可以找到有关系统、配件、技术说明等的可用信息。
システム、アクセサリ、テクニカルノートなど利用可能な情報に関しては Metcal のウェブサイト (metcal.com) を参照してください。
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