

MX-5000

Soldering, Desoldering & Rework Systems

HAND-PIECES & CARTRIDGES

The MX-5000 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.



Hand-pieces

MX-H2-UF
Metcal
UltraFine™
Hand-piece



MX-H1-AV
Metcal
Advanced™
Hand-piece



MX-PTZ
Metcal
Precision
Tweezer
Hand-piece



MX-DS1
Metcal
Desoldering
Hand-piece

Cartridges



UFTC



STTC



SMTC



PTTC



STDC



Note: The hand-pieces shown above are backward compatible with the MX-5000 and MX-500 systems. Cartridges are not included with the hand-pieces.

STTC	Soldering Cartridges	See Series on pages 16-17
UFTC	Ultra Fine Soldering Cartridges	See Series on page 18
SMTC	Rework Cartridges	See Series on pages 19-20
PTTC / TATC	Tweezer / Talon Cartridges	See Series on page 21
STDC	Desoldering Cartridges	See Series on page 22

Hand-pieces and Grips	
MX-H1-AV	Metcal Advanced™ Hand-piece with cord, soldering and rework, three grips included
MX-H1GR 1	Grip Metcal Advanced™ Hand-piece with black sleeve in ring pattern (ref a page 3)
MX-H1GS 3	Grip Metcal Advanced™ Hand-piece with black scallop pattern (ref c page 3)
MX-H1GKG 2	Grip Metcal Advanced™ Hand-piece with green knob pattern (ref b page 3)
MX-H2-UF	Metcal UltraFine™ Hand-piece with cord, fine soldering, three grips included
MX-H2GR 5	Grip Metcal UltraFine™ Hand-piece with black sleeve in ring pattern
MX-H2GRS 4	Short grip Metcal UltraFine™ Hand-piece with black sleeve in ring pattern
MX-H2GS	Grip Metcal UltraFine™ Hand-piece with black sleeve in scallop pattern
MX-H2GKG	Grip Metcal UltraFine™ Hand-piece with green sleeve in knob pattern
MX-PTZ	Metcal Precision Tweezers, SMD rework
MX-DS1	Metcal Desoldering Hand-piece
MX-RM8E	Metcal Desoldering Hand-piece Cord for MX-DS1
MX-RM5E	Metcal Soldering/Rework Hand-piece with long cord (1.83m / 6ft)
MX-RM6E	Metcal Soldering/Rework Hand-piece for long reach cartridge access

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WORKSTANDS & ACCESSORIES

Workstands and Accessories	
MX-W1AV	Metcal TipSaver™ Workstand, for Metcal Advanced™ and UltraFine™ Hand-pieces
MX-W1CR	Cradle for TipSaver™ Workstand, Advanced™ and UltraFine™ Hand-pieces, incl. knobs
MX-W4PT	Metcal TipSaver™ Workstand, for MX-PTZ Hand-piece
MX-W4CR	Cradle for Metcal TipSaver™ Workstand, MX-PTZ Hand-piece, includes knobs
MX-W5DS	Metcal TipSaver™ Workstand, for MX-DS1 Hand-piece
MX-W5CR	Cradle for Metcal TipSaver™ Workstand, MX-DS1 Hand-piece, includes knobs
AC-Y10	Yellow sponge, pack of 10
AC-BP	Brass pad, pack of 10
AC-BRUSH-P	Soft Brass Brush, pack of 6
MX-CP1	Cartridge removal pad
Accessories for MX-DS1 Desoldering Hand-piece	
MX-DCF1	Chamber Liners (pack of 15) and Filters (pack of 6)
MX-DCF1L	Chamber Liners (pack of 40)
MX-DCF1F	Filters (pack of 20)
AC-TC-P	Desolder Tip Cleaner
AC-CB1-P	Desolder Chamber Cleaning Brush (pack of 25)
AC-CB2-P	Tube Cleaning Brush (pack of 6)
MX-DSL2	Seal Cartridge
MX-DSB	Swivel Connector
MX-DLA	Desolder Gun Latch Adjustment (pack of 10)
MX-DMK1	Maintenance Kit
MX-DAH4	ESD air hose for MX-DS1 Desoldering Hand-piece
MX-DSL1	Seal Chamber
MX-DVC1	Venturi Cartridge
MX-DAR1	Air Regulator and Filter

Note: Users of the MX-500 System that have either an MX-RM3E Hand-piece or an MX-TALON Tweezer Hand-piece can still use these hand-pieces with the MX-5000 System. However, for improved operator comfort and ergonomics, the new Metcal Advanced™ Hand-piece (STTC and SMTC cartridges) and the MX-PTZ Precision Tweezers are highly recommended.



Through hole desoldering with the MX-DS1 hand-piece.

UPGRADE KITS GUIDE: HAND-PIECE AND WORKSTAND							
PART NUMBER	Hand-pieces				Workstands		
	MX-H1-AV	MX-H2-UF	MX-PTZ <small>Precision Tweezers</small>	MX-DS1 <small>Desoldering</small>	MX-W1AV	MX-W4PT	MX-W5DS
MX-UK1	✓				✓		
MX-UK2		✓			✓		
MX-UK4			✓			✓	
MX-UK5				✓			✓

Upgrade kits include a hand-piece and a workstand. Upgrade kits are a recommended option when adding a hand-piece to ensure that the matching Auto-Sleep Workstand is used.

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)



BGA pad cleaning with SMTc blade tip cartridge. See full range on page 20.