MX-500
Soldering, Desoldering & Rework System

Industry Standard, Soldering, Desoldering And Rework System

Metcal's MX-500 Soldering, Desoldering & Rework System is the benchmark against which other soldering, desoldering and rework systems are measured. Flexible, fast and powerful, the MX-500 Soldering, Desoldering & Rework System raises bench-top conduction soldering to a new level of process control, productivity and throughput.

Higher Throughput At Lower Temperatures

Unlike conventional soldering/rework systems that rely on stored energy, Metcal systems use SmartHeat® for direct power on demand. Despite its capacity to work at lower, safer temperatures, SmartHeat® still delivers the fastest temperature recovery, joint-to-joint, in the industry.

Versatility Without Compromise

Metcal's MX-500 Soldering, Desoldering & Rework System handles both SMT and through-hole soldering/rework with one power supply at the bench. With two switchable outputs, the system can be adapted to your exact needs, using two of the three tools available (soldering iron, Talon® tweezers, desolder gun) to configure the most powerful bench-top soldering/rework system on the market. In addition, the MX-500 Soldering, Desoldering & Rework System's power supply has an automatic shut-off, which helps maximise tip cartridge life, and a standard four year warranty.

Unrivalled Comfort And Simplicity

The short tip-to-grip distance, characteristic of the Metcal hand-piece, improves process precision, especially for fine-pitch applications. The easy-squeeze design of Metcal's Talon® tweezers has been ergonomically designed for superior performance, unmatched comfort and optimum control.

MX-500S SMT SOLDERING/REWORK SYSTEM

Part No.	Description
MX-500S-11	Two Port 100/120 VAC, Solder System
MX-500S-21	Two Port 220/240 VAC, Solder System
INCLUDES	
MX-500P	Two Port Switchable Power Supply with Power Cord*
MX-RM3E	Rework Hand-Piece with Cord
MX-WS4	MX Workstand with YS3 Sponge
AC-YS3	Sponge
AC-CP2	Cartridge Removal Pad

MX-500TS SMT REWORK/TALON® SYSTEM

MX-500TS-11	Two Port 100/120 VAC, Solder/Talon® System
MX-500TS-21	Two Port 220/240 VAC, Solder/Talon® System
INCLUDES	
MX-500P	Two Port Switchable Power Supply with Power Cord
MX-TALON	Talon® Hand-Piece with Cord
MX-WS5	DS1/Talon® Workstand with YS3 Sponge
MX-RM3E	Rework Hand-Piece with Cord
MX-WS4	MX Workstand with YS3 Sponge
AC-YS3	Sponge (2)
AC-CP2	Cartridge Removal Pad (2)

TALON® UPGRADE KITS

MX-TALON-01	Talon® Upgrade Kit
INCLUDES	
MX-TALON	Talon® Hand-Piece with Cord
MX-WS5	DS1/Talon® Workstand with YS3 Sponge
AC-YS3	Sponge
AC-CP2	Cartridge Removal Pad

Tip cartridges sold separately for all systems.

MX-500

Soldering, Desoldering & Rework System

Pistol Grip SMT Desoldering/Rework System

The MX-500DS Desoldering/Rework System converts shop air into a powerful Venturi vacuum to clean through-holes quickly and efficiently. Paper solder collection liners within the hand-piece barrel are easy to maintain and are an improvement upon traditional glass tubes.

Please note: The MX-500DS Desoldering/Rework System requires shop air for desoldering. If shop air is not available, Metcal recommends the SP440 Self-Contained Desoldering System.

MX-500DS SMT DESOLDERING/REWORK SYSTEM

Part No.	Description
MX-500DS-11	Two Port 100/120 VAC, Desolder/Solder System
MX-500DS-21	Two Port 220/240 VAC, Desolder/Solder System
INCLUDES	
MX-500P	Two Port Switchable Power Supply with Power Cord
MX-DS1	Desoldering Hand-Piece
MX-RM3E	Rework Hand-Piece with Cord
MX-RM8E	Desoldering Cord
MX-DAH4	ESD Air Hose with Fitting
MX-WS5	DS1/Talon® Workstand with YS3 Sponge
AC-YS3	Sponge (2)
AC-CP2	Cartridge Removal Pad (2)
AC-CB1	Cleaning Brush
AC-CB2	Tube Cleaning Brush
MX-DCF1	Chamber Liner and Filter Pack
AC-TC	Desoldering Tip Cleaner
MX-WS4	MX Workstand with YS3 Sponge

DESOLDER UPGRADE KIT

MX-D001	Desolder Upgrade Kit
INCLUDES	
MX-DS1	Desoldering Hand-Piece
MX-RM8E	Desoldering Cord
MX-DAH4	ESD Air Hose with Fitting
MX-WS5	DS1/Talon® Workstand with YS3 Sponge
AC-YS3	Sponge
AC-CP2	Cartridge Removal Pad
AC-CB1	Cleaning Brush
AC-CB2	Tube Cleaning Brush
MX-DCF1	Chamber Liner and Filter Pack
AC-TC	Desoldering Tip Cleaner

Tip cartridges sold separately for all systems.

MX-500
Accessories & Spare Parts
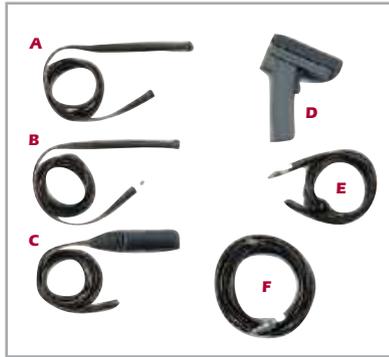
HAND-PIECES AND CORDS

	Part No.	Description
A	**MX-RM3E**	ESD Solder Handle W/CP2 for MX-500 Systems
B	**MX-RM6E**	ESD Long Reach Solder Handle W/CP2 for MX-500
C	**MX-TALON**	Talon® Hand-Piece with Cord
D	**MX-DS1**	Desolder Hand-Piece
E	**MX-RM8E**	DS1 Desolder Cord
F	**MX-DAH4**	ESD Air Hose, standard with fitting
	MX-RM5E	Standard Robotic Cable, 1-piece, 6' (1.83m)**

WORKSTAND ITEMS

G	**MX-WS5**	DS1/Talon® Workstand with YS3 Sponge
H	**MX-WS4**	MX Workstand with YS3 Sponge
I	**MX-WSC5**	Talon® Cradle
J	**MX-WSC4**	MX-RM3E / 6E Cradle
	AC-YS1-P	WS1 Sponge (1.7" x 2.7" x 1.0") (Pack of 50)**
	AC-YS3-P	MX, SP & DP Workstand Sponge (Pack of 50)**
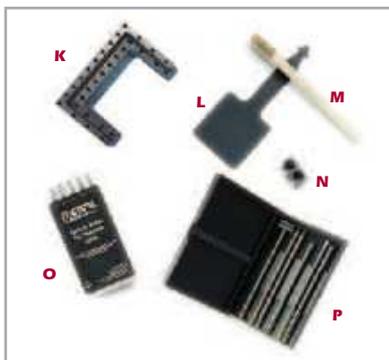
MISCELLANEOUS ACCESSORIES

K	**AC-TSTAND**	Tip Stand
L	**AC-CP2**	Cartridge Removal Pad
M	**AC-BRUSH-P**	Soft Brass Brush Cleaner (Pack of 6)
N	**MX-DHS**	Dual Handle Support (use with dual heater SMTCs)
O	**STSS-TEMPLATE**	SMTC Tip Selection Template
P	**AC-TCASE**	Tip Case for STTC/SSC (holds 10 tips)*
	MX-FX2	Fume Extraction Tube and Clamp**

* Tips not included ** Not shown

DESOLDERING ACCESSORIES

Q	**MX-DCF1**	DS1 Filter Pack: 15 chamber liners, 6 fume filters
	MX-DCF1L	DS1 Chamber Liners (Pack of 40)**
	MX-DCF1F	DS1 Fume Filters (Pack of 20)**
R	**MX-DAR1**	Air Regulator and Filter with Fittings
S	**AC-TC-P**	Desolder Tip Cleaner (Pack of 12)
T	**AC-CB1-P**	Desolder Chamber Cleaning Brush (Pack of 25)
U	**AC-CB2-P**	Desolder Tube Cleaning Brush (Pack of 6)
V	**MX-DVC1**	Venturi Cartridge for Desolder Gun
W	**MX-DSL1**	DS1 Chamber Seal
X	**MX-DSL2**	DS1 Cartridge Seal
Y	**MX-DSB**	Desolder Gun Swivel Bushing
	MX-DLA	Desolder Gun Latch Adjustment (Pack of 10)*

* Not shown

DESOLDERING MAINTENANCE KIT

MX-DMK1		DS1 Maintenance Kit

INCLUDES

Z		Long Phillips Screws (Pack of 2)**
AA		Short Phillips Screws (Pack of 4)**
BB	**MX-DSB**	Desolder Gun Swivel Bushing
CC		Hex Screws (Pack of 2)**
DD	**MX-DLA**	Desolder Gun Latch Adjustment (Pack of 10)
EE		Large Springs (Pack of 2)**
FF		Nylon Screws (Pack of 2)**
GG	**MX-DSL2**	DS1 Cartridge Seal (Pack of 2)
HH		Hinge Pins (Pack of 4)**
II		O-Rings (Pack of 2)**
JJ	**MX-DSL1**	DS1 Chamber Seal (Pack of 2)
KK		Small Springs (Pack of 6)**
	MX-DUC	DS1 Upper Chamber (Type II Desolder Tool only)*

* Not shown ** Not sold separately

OTHER SYSTEM COMPONENTS

POWER SUPPLY AND POWER METER

MX-500P-11	Two Port 100/120 VAC Power Supply
MX-500P-21	Two Port 220/240 VAC Power Supply
MX-NPM	Net Power Meter