

New Product Introduction

New MX-5000 versus Original MX-500 Systems Comparison

Overview

The new MX-5000 Series is the next generation of the trusted Soldering and Rework Systems from Metcal. With double the power of its predecessor, the MX-5000's time to recovery increases production rates and throughput. A new Metcal Advanced™ Hand-piece, for soldering and rework, has been designed to decrease operator fatigue and optimize operator manual dexterity. This hand-piece uniquely offers the user a choice of three interchangeable grips to meet the operator's ergonomic requirements.

MX-5000 Systems Comparison

The MX-5000 Series are configurable systems with the major sub-system components being the power supply, the hand-piece(s) and the workstand(s). The table below compares the "New" series MX-5000 Series versus the "Original" MX-500 Series.

New Series	Original Series	Hand-piece(s) Used with System
MX-5010	MX-500S-11 MX-500S-21	Soldering / Rework Hand-piece
MX-5040	None	Precision Tweezers Hand-piece
MX-5050	None	Desoldering Handpiece
MX-5041	MX-500TS-11 MX-500TS-21	Solder / Rework & Precision Tweezers Hand-pieces
MX-5051	MX-500DS-11 MX-500DS-21	Soldering / Rework & Desolder Hand-pieces



New MX-5010 Soldering/Rework Hand-piece



Original MX-500S System

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Power Supply Comparison

Users will instantly note that the new MX-PS5000 Power Supply has an LCD display with power indication and system status information. It also includes a Command/ Output Selection switch to access settings and seamlessly switch output port. Its footprint is 10% smaller than its predecessor and features an updated housing design.

Feature	MX-PS5000 (New)	MX-500P (Original)
Input Voltage	100 - 240 VAC	100/120 VAC <i>or</i> 220/240VAC
Power Output	80 W per output	40 W per output
Output Operation	Dual port switched system	Dual port switched system
LCD Display	Blue background, 2 line x 20 character	None
Built-in Power Indication	Digital display with bar graph indication, microprocessor controlled	Optional analog meter
Auto-Off Function	Programmable 10-120 minutes, 10 minute increments	None
Future Expansion	Data-comm port with RJ-11 input for future use	None



NEW: MX-PS5000 Power Supply



MX-500P Power Supply

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MX-Series Hand-piece Comparison

The new Metcal Advanced™ Hand-piece improves on the industry-leading MX-RM3E used with the original MX-500. While both hand-pieces use the same cartridge series (STTC, SMTC), the Metcal Advanced™ Hand-piece adds these improvements:

1. The handle is machined aluminum versus plastic improving durability,
2. The handle is 30% lighter decreasing operator fatigue,
3. It adds soft-to the touch grips for improved user comfort,
4. The user selects, from a choice of three grip styles, the one that is most comfortable.

In addition to the new Advanced™ Hand-piece, the MX-PTZ advances surface mount rework efficiency versus the Talon® by adding adjustments to the hand-piece for exact tip alignment.

New MX-5000 Series Hand-piece	Original MX-500 Series Hand-piece	Cartridges	Application
MX-H1-AV Metcal Advanced™ Hand-piece	MX-RM3E	BOTH handpieces utilize STTC and SMTC cartridges	Soldering / QFP, SOIC Removal, Pad Clean-up
MX-PTZ Precision Tweezers Hand-piece	MX-TALON	MX-PTZ uses PTTC series cartridges MX-TALON uses TATC	Rework tweezers for SMD chips, SOIC.
MX-DS1 Desoldering Hand-piece	MX-DS1	Uses STDC cartridges	Desoldering of plated-through hole devices
Note: All hand-pieces are forward and backward compatible			



NEW Metcal Advanced™
Hand-piece and Grips

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Workstand Comparison

The new Metcal TipSaver™ Workstand adds new user flexibility. It features an adjustable angle hand-piece cradle to improve user ergonomics. Additionally, the workstand allows configuration with or without the sponge holder. This allows users to opt for the coiled brass pad only or both the coiled brass pad and sponge. The TipSaver is an auto sleep stand which decreases power to the hand-piece when placed in the workstand cradle.

NEW Work Stand	DESCRIPTION	Original Work Stand	DESCRIPTION
MX-W1AV	Metcal TipSaver™ Workstand for Advanced Hand-piece	WS1	Standard MX-RM3E
MX-W4PT	Metcal TipSaver™ Workstand for Precision Tweezers	WST	Work Stand for Precision Tweezers
MX-W5DS	Metcal TipSaver™ Workstand for Desoldering hand-piece	MFR-WSDS	Work Stand for De-solder Gun
Note: All Work Stands are forward and backwardly compatible			



NEW: MX-W1AV Metcal TipSaver™ Workstand for Advanced Hand-piece is configured with or without the sponge tray. The cradle angle can be easily adjusted for users' preference.



WS1 Universal Auto Sleep Workstand

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MX-Series Upgrade Kits Part Number Comparison

Upgrade kits include a hand-piece and its appropriate workstand. They enable users to add functionality to their MX-5000 system. The MX-5000 is configured and priced to add any hand-piece as needs change.

New Upgrade Kit	Description		Original Upgrade Kit	Description	
	Hand-piece	Workstand		Hand-piece	Workstand
MX-UK1	MX-H1-AV	MX-W1AV	None	None	
MX-UK4	MX-PTZ	MX-W4PT	MX-PTZ-AD	MX-PTZ	WST
MX-D001	MX-DS1	MX-W5DS	MX-D001	MX-DS1	MFR-WSDS



MX-UK1



MX-UK4



MX-D001