

# MFR-2200 Series Dual Simultaneous Output Soldering and Rework System



**One power supply.**  
**Two simultaneous ports.**  
**Three hand-pieces to choose from.**

## MFR Series with SmartHeat® Power and Control

The MFR-2200 Series Soldering and Rework Systems provide a high power, flexible solution for production soldering, touch-up soldering and SMD rework. SmartHeat® responds to the load, delivering the energy required for each connection, while protecting sensitive components and substrates from damage. With SmartHeat® technology, users are assured of highly responsive and controlled heating.

The MFR-2200 series features dual output capability which allows the user to select operation of one hand-piece or two hand-pieces **simultaneously**. One or two hand-piece operation is easily chosen via a front panel switch. Most importantly, the MFR-2200 contains two separate power supplies. *This means that full power is available for each hand-piece that is in use.*

## Multiple Hand-pieces Increases Flexibility

The MFR-2200 Series has three hand-pieces that can be used with the system. The MFR-H1-SC Cartridge Hand-piece offers a comprehensive range of soldering and rework cartridges, similar to our popular Metcal range, that provide fine-access soldering tips, SMD rework tips and pad clean-up blade tips.

A hand-piece for production soldering, MFR-H2-ST, features high power and tips designed for production soldering environments.

A third option for the system is the MFR-H4-TW Precision Tweezers Hand-piece. This hand-piece is ideal for SMD removal of 0201 resistors to 28 mm long SOIC.



# MFR-2200 Series Dual Simultaneous Output Soldering and Rework System

## Key Features & Benefits

- SmartHeat® Technology provides exceptional power for high thermal demand applications
- Dual **simultaneous** outputs allow for single or dual operator use
- Allows one operator to use two hand-pieces together
- Each hand-piece has a comprehensive range of cartridges or tips for maximum application flexibility
- Three hand-pieces increase application solutions for soldering and rework on one system
- Hand-pieces are ergonomic for operator safety and comfort

## SYSTEM CONFIGURATIONS

Part Number	Description
MFR-2210	Dual output, one cartridge soldering hand-piece, workstand
MFR-2220	Dual output, one tip soldering hand-piece, workstand
MFR-2240	Dual output, one precision tweezers hand-piece, workstand
MFR-2211	Dual output, two cartridge soldering hand-pieces, workstands
MFR-2222	Dual output, two tip soldering iron hand-pieces, workstands
MFR-2241	Dual output, one precision tweezers, one cartridge soldering hand-piece, workstands

System Number and Components	MFR-PS2200 Power Supply	MFR-H1-SC Soldering hand-piece - cartridge	MFR-H2-ST Soldering hand-piece - tip	MFR-H4-TW Tweezers hand-piece - cartridge	WS1 Universal Soldering hand-piece workstand	MFR-WSPT Tweezers workstand
MFR-2210	1	1			1	
MFR-2220	1		1		1	
MFR-2240	1			1		1
MFR-2211	1	2			2	
MFR-2222	1		2		2	
MFR-2241	1	1		1	1	1

## SYSTEM COMPONENTS

Part Number	Description
MFR-H1-SC	Hand-piece, Soldering Cartridge
MFR-H2-ST	Hand-piece, Soldering Tip
MFR-H4-TW	Hand-piece, Tweezers Cartridge
MFR-PS2200	Power Supply, Dual Output
WS1	Auto Sleep Workstand for Cartridge Soldering (MFR-H1-SC) or Tip Soldering (MFR-H2-ST) Hand-pieces, Black Cradle (standard with system)
WS1G	Auto Sleep Workstand for Cartridge Soldering (MFR-H1-SC) or Tip Soldering (MFR-H2-ST) Hand-pieces, Green Cradle (optional)
MFR-WSPT	Workstand for Tweezers Hand-piece (MFR-H4-TW), Black Cradle (standard)

## UPGRADE KITS

Part Number	Description
MFR-UK1	Upgrade Kit: Solder Cartridge Hand-piece (MFR-H1-SC) and Workstand (WS1)
MFR-UK2	Upgrade Kit: Solder Tip Hand-piece (MFR-H2-ST) and Workstand (WS1)
MFR-UK4	Upgrade Kit: Tweezers Hand-piece (MFR-H4-TW) and Workstand (MFR-WSPT)

## ACCESSORIES AND SPARES

Part Number	Description
MFR-CA2	Coil Assembly, Soldering Tip Hand-piece (MFR-H2-ST)
MFR-PM70	Power meter, MFR (optional)
AC-CP2	Cartridge / Tip Removal Pad
AC-BP	Brass Pad (pack of 10)

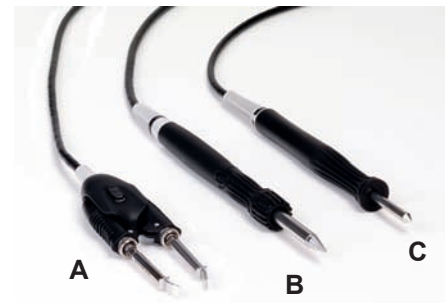
## SOLDERING AND REWORK CARTRIDGES AND TIPS

Hand-piece	Tip or Cartridge Series
MFR-H1-SC	SxP Soldering Cartridges <i>and</i> RxP Rework Cartridges
MFR-H2-ST	SxV Series Production Soldering Tips <i>and</i> CxV "Clean-up" Blade Tips for Pad Clean-up
MFR-H4-TW	TxP Series Cartridges for SMD Rework

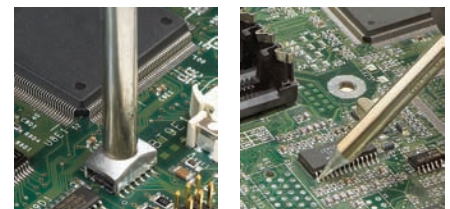
To view the complete range of cartridges and tips please visit [www.okinternational.com](http://www.okinternational.com)



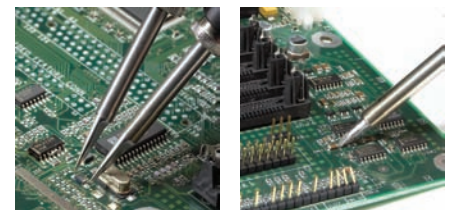
Three position switch. Select left, right or center (both ports operational) to power hand-pieces



MFR-2200 Series Hand-pieces  
**A.** MFR-H4-TW Precision Tweezer  
**B.** MFR-H2-ST Soldering Tip  
**C.** MFR-H1-SC Soldering Cartridge



The Cartridge hand-piece uses small diameter cartridges for easy access and includes a full range for SMD rework.



Precision Tweezers rework SMD components with fine dimension to large blade geometries, while the Soldering Tip hand-piece has exceptional power for production soldering.

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**TRAINING** Advantage  
**APPLICATION** Advantage  
**PRODUCTIVITY** Advantage  
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