

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



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

## **New 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.



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## 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 Simultaneous 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)                                                                 |
| MFR-PM70    | Power meter, MFR (optional)                                                                                                            |

## 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)    |

## SPARES

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

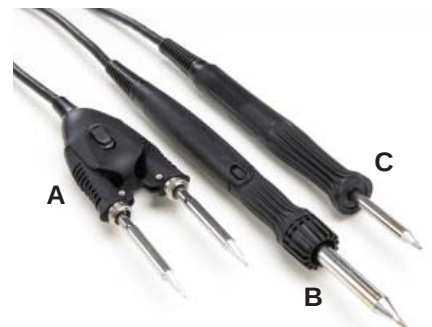
## SOLDERING AND REWORK CARTRIDGES AND TIPS

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

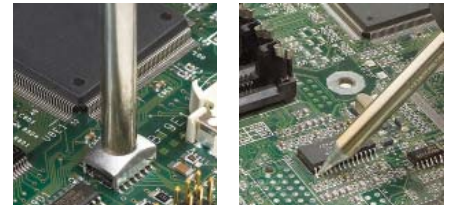
To view the complete range of cartridges and tips please visit [www.okinternational.com](http://www.okinternational.com)



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 Tweezers  
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.