

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.*

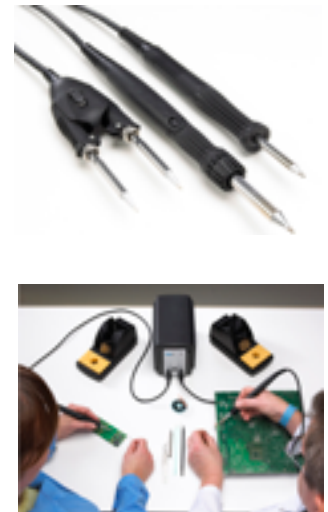
Multiple Hand-pieces Increases Flexibility

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 allows 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) |
| 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) |

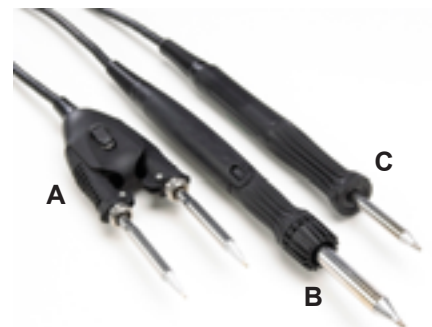
SOLDERING AND REWORK CARTRIDGES AND TIPS

| 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



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.

