

# MFR-1100 Series Single Output Soldering and Rework System



## Configurable System Provides Versatility with SmartHeat® Power & Control

The MFR-1100 Series Single Output Soldering and Rework Systems feature a choice of tools to support today's PCB and component technologies, providing maximum application solutions and increased productivity.

These new systems provide high power solutions for production soldering, touch-up soldering and SMD rework. As with Metcal Soldering Systems, the MFR-1100 series incorporates SmartHeat® Technology that dynamically responds to the load, precisely delivering the required energy for each connection, while protecting sensitive components and substrates from damage. With SmartHeat® Technology, users are assured of highly responsive and controlled heating.

### Multiple Hand-pieces Increases User Flexibility

The MFR-1100 offers maximum application solutions with a choice of three hand-pieces. 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
- High power output at a fixed temperature provides high throughput with excellent yields
- Three hand-pieces available for increased application solutions for soldering and rework on one system
- Each hand-piece has a comprehensive range of cartridges or tips for maximum flexibility
- Hand-pieces are ergonomic for operator safety and comfort

## SYSTEM CONFIGURATIONS

Part Number	Description
MFR-1110	Single output, one cartridge soldering hand-piece, workstand
MFR-1120	Single output, one tip soldering hand-piece, workstand
MFR-1140	Single output, one precision tweezers hand-piece, workstand

System Number and Components	MFR-PS1100 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-1110	1	1			1	
MFR-1120	1		1		1	
MFR-1140	1			1		1

## SYSTEM COMPONENTS

All of the hand-pieces can also be used with the OKi MFR-2200 Series Dual Simultaneous Output Soldering and Rework Systems.

Part Number	Description
MFR-H1-SC	Hand-piece, Soldering Cartridge
MFR-H2-ST	Hand-piece, Soldering Tip
MFR-H4-TW	Hand-piece, Precision Tweezers Cartridge
MFR-PS1100	Power Supply, Single 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

All of the Upgrade Kits can also be used with the OKi MFR-2200 Series Dual Simultaneous Output Soldering and Rework Systems.

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: Precision 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 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)



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.

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