





Soldering/Desoldering

Convection Rework

Fume Extraction

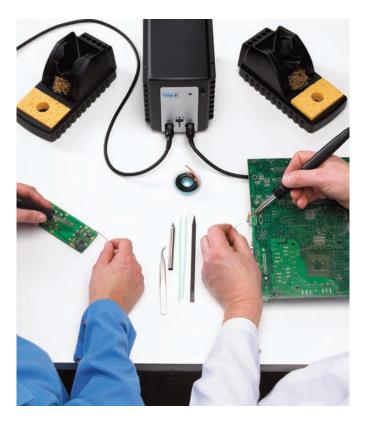
Fluid Dispensing







MFR-2200 Series Dual Simultaneous Output Soldering & Rework System



The MFR-2200 Series features dual output capability allowing users to select operation of one hand-piece or two hand-pieces **simultaneously**.

Like the MFR-1100 Series, the MFR-2200 offers the same choice of multiple hand-pieces. Flexibility can be increased by locking both systems together.

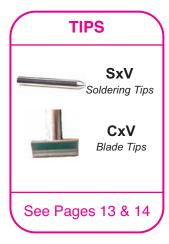






Systems	MFR-PS2200 Power Supply	MFR-H1-SC Soldering Cartridge Hand-piece	MFR-H2-ST Soldering Tip Hand-piece	MFR-H4-TW Tweezer Hand-piece	WS1 Universal Soldering Workstand	MFR-WSPT Tweezer Workstand
Picture Reference		1	2	3		
MFR-2210	1	1			1	
MFR-2220	1		1		1	
MFR-2240	1			1		1
MFR-2211	1	2			2	
MFR-2222	1		2		2	
MFR-2241	1	1		1	1	1









Productivity Advantage
Dual Output System for
increased productivity

MFR-1100 & MFR-2200 Series Soldering & Rework Systems



Other Accessories Available:

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MFR-CA2	Coil Assembly for Tip Hand-piece (MFR-H2-ST)		
WS1G	Auto-sleep Workstand, Green		
MFR-PM70	Power Meter		
AC-CP2	Cartridge / Tip Removal Pad		
AC-BP	Brass Pad (for Workstand) - Pack of 10		
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: Tweezer Cartridge Hand-piece		
	(MFR-H4-TW) and Workstand (MFR-WSPT)		
MFR-UK6	Upgrade Kit: Tweezer Cartridge Hand-piece		
	(MFR-H6-SSC) and Workstand (WS2)		

Key Features & Benefits

- ▶ SmartHeat® Technology provides exceptional power for high thermal demand applications
- ▶ Single or Dual simultaneous outputs allow for single or dual hand-piece use
- ▶ Four 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



MFR-2200: Three position switch. Select left, right or center (both ports operational) to power hand-pieces

Technical Specifications

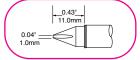
Power Supply	MFR-1100	MFR-2200
Ambient Operating Temperature	10 - 40°C (50°F - 104°F)	10 - 40°C (50°F - 104°F)
Maximum Enclosure Temperature	55°C (131°F)	55°C (131°F)
Input Line Voltage	100 - 240 VAC	100 - 240 VAC
Input Line Frequency	50/60 Hz grounded circuit	50/60 Hz grounded circuit
Power Consumption	70 Watts maximum	130 Watts maximum
Output Power	60 Watts at 22°C	60 Watts at 22°C per output (2 outputs)
Output Frequency	450 KHz	450 KHz
Power Cord (3-wire)	183 cm 18/3 SJT	183 cm 18/3 SJT
Dimensions (approx.) W x D x H	90mm (3.5") x 142mm (5.6")	170mm (7") x 200mm (8")
	x 197mm (7.8")	x 152.5mm (6")
Weight	2.3kg (5.05 lbs)	2.97 kg (6.55 lbs)
Surface Resistivity	10 ⁵ -10 ⁹ Ohms	10 ⁵ -10 ⁹ Ohms
Certification / Marking	cTUVus, CE	cTUVus, CE

Soldering Handle and Coil Assembly

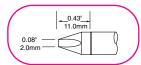
Soldering Handle and Con Assembly		
Tip-to-Ground Potential	<2 mV RMS	< 2 mV RMS
Tip-to-Ground Resistance	<2 ohms	<2 ohms
Idle Temperature Repeatability	± 1.1°C (2°F) in still air	± 1.1°C (2°F) in still air
Handle Cord Assembly Length	122 cm - burn proof, ESD safe	122 cm – burn proof, ESD safe
Connector	8-pin circular DIN	8-pin circular DIN
Workstand W x D x H	100 mm (4") x 200 mm (8")	100 mm (4") x 200 mm (8")
	x 100 mm (4")	x 100 mm (4")
Workstand Weight	0.69 kg (1.51 lbs)	0.69 kg (1.51 lbs)

SxV and CxV Soldering Tips

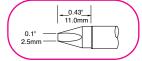
The SxV and CxV tips are for use with the soldering tip hand-pieces of the PS and MFR Platforms and are recommended for heavy duty applications. Full range available at www.okinternational.com.



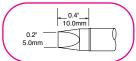
SFV-CH10 Chisel Solder Tip 30° 1.0mm (.04")



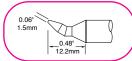
SFV-CH20 Chisel Solder Tip 2.0mm (.08")



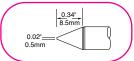
SFV-CH25 Chisel Solder Tip 2.5mm (.10")



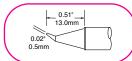
SFV-CH50 Chisel Solder Tip 5.0mm (.20")



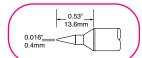
SFV-CHB15 Chisel Bent 30°Solder Tip 1.5mm (.06")



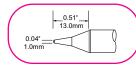
SFV-CN05 Conical Solder Tip 0.5mm (.02")



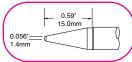
SFV-CNB05 Conical Bent Solder Tip 0.5mm (.02")



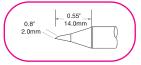
SFV-CNL04 Conical Long Solder Tip 0.4mm (.016")



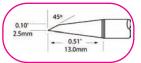
SFV-CNL10 Conical Long Solder Tip 1.0mm (.04")



SFV-CNL14 Conical Long Solder Tip 1.4mm (.056")



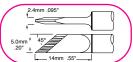
SFV-DRH20 Conical Bevel Solder Tip 2.0mm (.08")



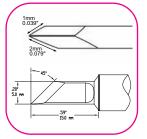
SFV-DRH20CP Drag Soldering Tip Hoof 2.5mm (.10")



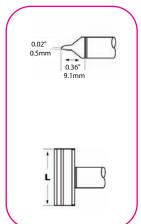
SFV-DRH30CP Drag Soldering Tip Hoof 3.6mm (.14")



SFV-DRK50 Knife Solder Tip 5.0mm (.20")



SFV-DRK50S Drag Soldering Tip Knife 5.0mm (.20")



CFV-BL100 Blade Tip L=10mm (.40")

CFV-BL250 Blade Tip L=25mm (1")

CFV-BL350 Blade Tip L=35mm (1.4")

CFV-BL400 Blade Tip L=40mm (1.6")

CFV-BL500 Blade Tip L=50mm (2")

F = FR4 / Glass Fiber, for most standard applications. Two other series also available, just replace F with either T or C.

T = Temperature Sensitive C = Ceramic. Note: CxV tips are only available in F and C Series.

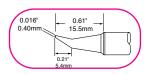
SxV Soldering Tips - EA Series



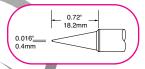
We have taken the most popular soldering tip shapes in the industry and created the new "EA" series of SxV soldering tips. Each one is engineered for optimal thermal transfer and maximum tip life. Offering Easy Access, these new tips are also Economical and Affordable.

SxV series tips are for use with the soldering tip handpieces on both the PS and MFR soldering platforms.

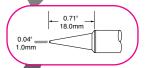
These new tips are shown here, and will be available soon. Please contact your OK International representative for further information, availability and evaluation samples.



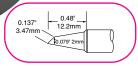
SFV-CNB04A Conical Bent Solder Tip 0.4mm (.0155")



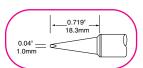
SFV-CN05A Conical Solder Tip 0.4mm (.016")



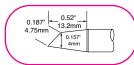
SFV-CNL10A Conical Long Solder Tip 1.0mm (.04")



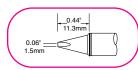
SFV-DRH420A **Hoof Solder Tip** 3.47mm (.137")



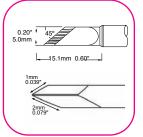
SFV-CH10A Chisel Solder Tip 1.0mm (.04")



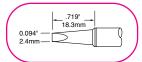
SFV-DRH440A Drag Solder Tip Hoof, 4.75mm (.187")



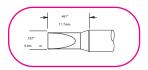
SFV-CH15A Chisel Solder Tip 1.5mm (.06")



SFV-DRK45A Knife Solder Tip 5.0mm (.20")



SFV-CH24A Chisel Solder Tip 2.4mm (.094")



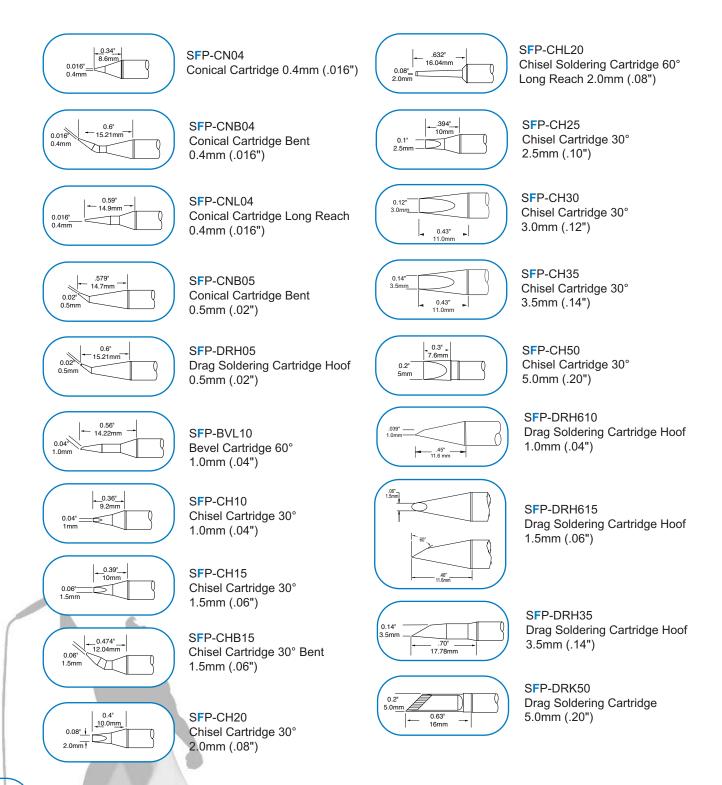
SFV-CH50A Chisel Solder Tip 5.0mm (.20")

F= FR4 / Fiber Glass, for most standard applications. Two other series also available, just replace F with either T or C. T = Temperature Sensitive C = Ceramic



SxP Soldering Cartridges

The SxP cartridges are for use with the soldering cartridge hand-piece of the MFR Single and Dual Platform. They provide a wide range of options addressing specialized soldering and rework applications. Full range available at www.okinternational.com.

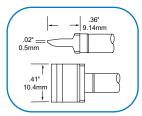


F= FR4 / Glass Fiber, for most standard applications. Two other series are also available, just replace F with either T or C. T = Temperature Sensitive, C = Ceramic

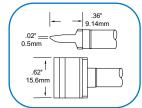
RxP Rework Cartridges

The RxP cartridges are for use with the soldering cartridge hand-piece of the MFR Single and Dual Platform. Full range available at www.okinternational.com.

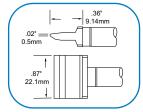
Blade cartridges are designed to allow effective and quick cleaning of PCB pads.



RFP-BL1 Blade Cartridge Length 10.4mm (0.41")

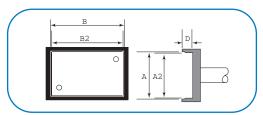


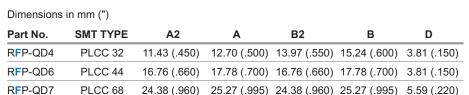
RFP-BL2 Blade Cartridge Length 15.6mm (0.62")



RFP-BL3 Blade Cartridge Length 22.1mm (0.87")

Quad cartridges are used for the removal of four-sided devices such as QFPs and PLCCs.



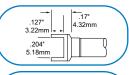


PLCC 52 19.30 (.760) 20.32 (.800) 19.30 (.760) 20.32 (.800) 3.81 (.150) RFP-QD10 RFP-QD15 TQFP 80 12.32 (.485) 13.34 (.525) 12.32 (.485) 13.34 (.525) 2.79 (.110) RFP-QD19 QFP 44 16.13 (.635) 16.13 (.635) 16.13 (.635) 16.13 (.635) 3.30 (.130) **QFP 100** RFP-QD20 16.51 (.650) 16.51 (.650) 22.48 (.885) 22.48 (.885) 3.30 (.130)

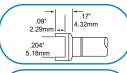
F = FR4 / Glass Fiber, for most standard applications. Two other series are also available, just replace F with either T or C.

T = Temperature Sensitive, C = Ceramic. Note: RxP tips are only available in F and C Series.

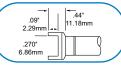
Tunnel cartridges are used for the removal of multi-lead, two-sided components such as SOICs, SOJs and TSOPs.



RFP-DL1 Tunnel Cartridge SOIC-14-16 Length 10.16mm (0.4")



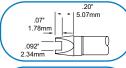
RFP-DL2 Tunnel Cartridge SOIC-8 Length 4.32mm (0.17")



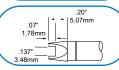
RFP-DL3 Tunnel Cartridge SOMC-16 Length 11.15mm (0.44")

Slot cartridges are used for the removal of discrete and passive devices





RFP-SL1 0805 Chip Package B= 1.37mm (0.054")

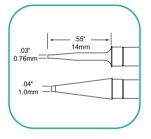


RFP-SL2 1206 Chip Package B= 1.63mm (0.064")

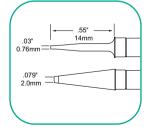
TxP Tweezer Cartridges

For use on MFR Single and Dual Platforms

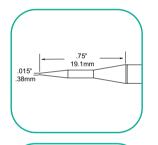
More cartridges available at www.okinternational.com



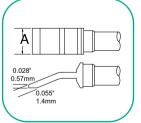
TFP-BLP1 Tweezer Cartridge Blade Pair 1.0mm (.04")



TFP-BLP2 Tweezer Cartridge Blade Pair 2.0mm (.08")



TFP-CNP1 Tweezer Cartridge Conical Pair 0.4mm (.015")



Heavy Duty Tweezer Pair

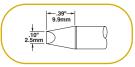
F= FR4 / Glass Fiber, for most standard applications. Two other series are also available, just replace F with either T or C.

T = Temperature Sensitive, C = Ceramic

SSC Soldering Cartridges

For use on MFR Single Platform

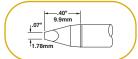
More cartridges available at www.okinternational.com



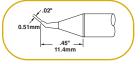
SSC-736A Chisel 30° 2.5mm (.10")



SSC-722A Conical Sharp 0.51mm (.02")

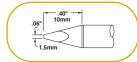


SSC-737A Chisel 30° 1.78mm (.07")

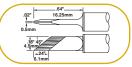


- .45" —- 11.4mm

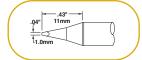
> SSC-726A Sharp Bent 30° 0.51mm (.02")



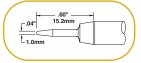
SSC-738A Chisel 30° 1.50mm (.06")



SSC-773A Drag Soldering (increased tinned area) 6.1mm (.24")



SSC-**7**25A Chisel 30° 1.0mm (.04")



SSC-701A Conical Sharp 1.0mm (.04")