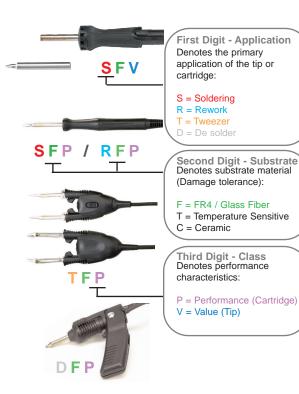
Applications	Systems	Handpieces	Tips & Cartridges				
SOLI	DERING						
Repetitiv productio soldering touch up an through-hol	PS-800 PS-800E	Coil Assembly + Handpiece = PS-HC1 Coil Assembly = PS-CA1(PS-800) or DEFEND VIEW OF PS-CA2 Coil Assembly = PS-CA2 (PS-800E)	TIPS PHT 37 geometries				
PS-CA Light/medium loa PS-CA2 & MFR-CA Heavy loa	Production Soldering Tip System	Coil Assembly + Handpiece = MFR-HPS Coil Assembly = MFR-CA1	TIPS SFV 12 geometries				
SOLDERING & REWORK							
Productio solderin rework SMT remova	Soldering & Rework	Handpiece = MFR-HSR	CARTRIDGES SFP 17 geometries RFP 7 geometries				
0201 Packages & smal discrete	System	Handpiece = MFR-HPT - + • MFR-HSR	TFP 3 geometries				
components		Handpiece = MFR-HPT -	TFP-CNP1				
Discrete & SOIC components	Standard Tweezer	Handpiece = MFR-HST	between MFR-HPT & MFR-HST TFP 5 geometries CARTRIDGES TFP-BLH3, TFP-BLH4, TFP-BLH5, TFP-BLH6, TFP-BLH7				
Desoldering through-hole from 0.67mm (.26") O/D to 2.44mm	Solder/Desolder Internal Pump Solder/Desolder External Air	Handpiece = MFR-HDS + • MFR-HDS are only compatible with MFR-DSI,	CARTRIDGES DFP 9 geometries				
(.096") O/D Control (	* MFR-DSI / -DSX Desolder Internal Pump System Desolder External Air System	Handpiece = MFR-HDS					
	Handpieces MFR-HPS / MFR-HSR / MFR-HPT / MFR-HST a	re compatible and interchangeable with systems marked $ st$	www.okinternational.com				

## **Tip Cross Reference**

MX-500	MFR-SFP	MFR-SFV/ PS-800E	PS-800	SP200
STTC-X25 STTC-X38 STTC-X37 STTC-X36	SFP-CH10 SFP-CH15 SFP-CH20 SFP-CH25	SFV-CH10 SFV-CH20 SFV-CH25	PHT-XY0315 PHT-XY0335 PHT-XY1335	SSC-X25A SSC-X38A SSC-X36A
STTC-X17 STTC-X22	SFP-CH25 SFP-CH50 SFP-CN04	SFV-CH25 SFV-CH50	PHT-XY1335 PHT-XY1384	SSC-X36A SSC-X17A
STTC-X16 STTC-X45 STTC-X42 STTC-X40	SFP-CN05 SFP-CNL04 SFP-CHL20 SFP-CNB04	SFV-CN05 SFV-CNL04	PHT-XY3035 PHT-XY2017	SSC-X22A
STTC-X44 STTC-X99 STTC-X46 SMTC-X172	SFP-CNB05 SFP-CHB15 SFP-BVL10 SFP-DRH05	SFV-CNB05 SFV-CHB15	PHT-XY2335 PHT-XY0326	SSC-X54A
SMTC-X167 SMTC-X147 SMTC-X61 SMTC-X62 SMTC-X61 SMTC-X60 SMTC-X01 SMTC-X02 SMTC-X04 SMTC-X06 TATC-X01	SFP-DRH15 SFP-DRH35 SFP-DRK50 RFP-BL3 RFP-BL2 RFP-BL1 RFP-SL1 RFP-SL2 RFP-DL2 RFP-DL2 RFP-DL1 TFP-CN1	SFV-DRK50	PHT-XY5477	SSC-X67A SSC-X39A SSC-X73A

### **MFR Tip Part Numbering**



## **Upgrade Kits**

#### Add versatility to your MFR System.

Hand-piece Upgrade Kits can be ordered to compliment any of the MFR Systems. Kits include both the hand-piece and workstand.

### MFR-PST-AD

Production / Solder Tip Upgrade Kit

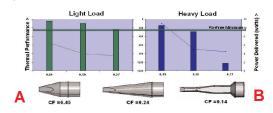
MFR-SRC-AD Solder / Rework Cartridge Upgrade Kit

MFR-PTZ-AD Precision Tweezer Upgrade Kit

MFR-STZ-AD Standard Tweezer Upgrade Kit

# **Conductivity Factor**

Our new SmartHeat® PowerTips<sup>™</sup> have been specifically developed for Lead free applications. They offer high performance at low tip idle temperatures, by optimizing the conduction of the thermal energy through the design of the tip geometries .



The tip **B** is formed with multiple steps. This reduces its diameter size and inhibits its ability to conduct thermal energy efficiently to the joint.

The tip **A** has a smooth progressive taper allowing good conduction from the heater source to the substrate.

The above diagram is a representation of how each tip performed when soldering a 2 layer board (light load) and a 10 layer board (heavy load). The temperature was the same for both tests and a bench mark line added to signify the requirements of Lead free. This shows that by maintaining the source temperature (typically 370°C) and just changing the geometries you can achieve much better thermal performance.



### Hand Soldering & Rework Product Guide

### PS-800 & MFR Range





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