

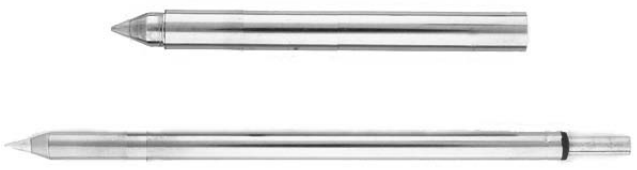


**METCAL**

**OKi**

Soldering / Desoldering / Rework  
**Tips and Cartridges**

SELECTION GUIDE



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ALL METCAL AND OKI TIPS AND CARTRIDGES  
ARE POWERED BY SMARTHEAT® TECHNOLOGY

**SmartHeat® Technology = Variable Power / Fixed Temperature**

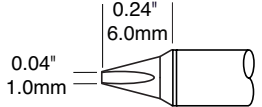
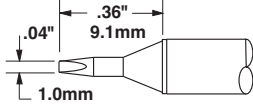
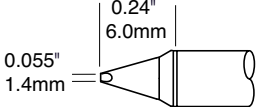
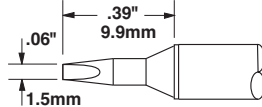
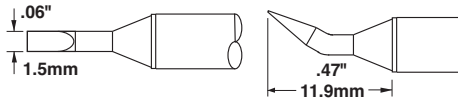
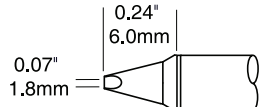
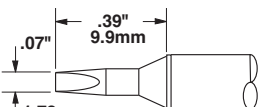
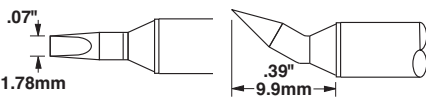
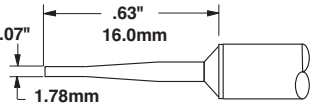
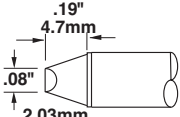
► See page 32 for full explanation



CHISEL

**STTC SOLDERING CARTRIDGES**

Compatible with: MX-500 to MX-5200 Systems / MX-RM3E and MX-H1-AV hand-pieces

	<p>STTC-125P STTC-825P</p>	<p>Chisel 30° P = Optimised geometry for best thermal performance 1.0mm x 6.5mm (.04" x .25")</p>
	<p>STTC-525 STTC-025 STTC-125 STTC-825</p>	<p>Chisel 30° 1.0mm x 9.1mm (.04" x .33")</p>
	<p>STTC-138P STTC-838P</p>	<p>Chisel 30° P = Optimised geometry for best thermal performance 1.5mm x 6.0mm (.06" x .24")</p>
	<p>STTC-538 STTC-038 STTC-138 STTC-838</p>	<p>Chisel 30° 1.5mm x 9.9mm (.06" x .39")</p>
	<p>STTC-599 STTC-099 STTC-199 STTC-899</p>	<p>Chisel Bent 30° 1.5mm x 11.9mm (.06" x .47")</p>
	<p>STTC-137P STTC-837P</p>	<p>Chisel 30° P = Optimised geometry for best thermal performance 1.78mm x 6.0mm (.07" x .24")</p>
	<p>STTC-537 STTC-037 STTC-137 STTC-837</p>	<p>Chisel Solder Cartridge 30° 1.78mm x 9.9mm (.07" x .39")</p>
	<p>STTC-598 STTC-098 STTC-198 STTC-898</p>	<p>Chisel Bent 30° 1.78mm x 9.9mm (.07" x .39")</p>
	<p>STTC-542 STTC-042 STTC-142 STTC-842</p>	<p>Long Reach Chisel 60° 1.78mm x 16mm (.07" x .63")</p>
	<p>STTC-514 STTC-014 STTC-114</p>	<p>Chisel 45° 2.0mm x 4.7mm (.08" x .19")</p>

5 = 500 Series and 0 = 600 Series for temperature sensitive applications - 1 = 700 Series for most standard applications.  
8 = 800 Series for Ceramic and high thermal demand applications.



**STTC SOLDERING CARTRIDGES**

Compatible with: MX-500 to MX-5200 Systems / MX-RM3E and MX-H1-AV hand-pieces

<b>CHISEL</b>		<p>STTC-136P STTC-836P</p>	<p>Chisel 30° P = Optimised geometry for best thermal performance 2.5mm x 6.0mm (.10" x .24")</p>
		<p>STTC-536 STTC-036 STTC-136 STTC-836</p>	<p>Chisel 30° 2.5mm x 9.9mm (.10" x .39")</p>
		<p>STTC-513 STTC-013 STTC-113 STTC-813</p>	<p>Chisel 90° 3.0mm x 4.8mm (.12" x .19")</p>
		<p>STTC-520 STTC-020 STTC-120 STTC-820</p>	<p>Long Reach Chisel 12° 3.8mm x 21.6mm (.15" x .85")</p>
		<p>STTC-517 STTC-017 STTC-117 STTC-817</p>	<p>Large Chisel 5.0mm x 7.6mm (.20" x .30")</p>
		<p>STTC-565 STTC-065 STTC-165 STTC-865</p>	<p>Large Chisel 5.0mm x 11.4mm (.20" x .45")</p>
<b>CONICAL</b>		<p>STTC-590 STTC-090 STTC-190 STTC-890</p>	<p>Fine and Long Reach Conical 0.25mm x 13.2mm (.01" x .52")</p>
		<p>STTC-526 STTC-026 STTC-126 STTC-826</p>	<p>Conical Sharp Bent 30° 0.4mm x 7.9mm (.016" x .31")</p>
		<p>STTC-522 STTC-022 STTC-122 STTC-822</p>	<p>Conical Sharp 0.4mm x 8.4mm (.016" x .33")</p>
		<p>STTC-145P STTC-845P</p>	<p>Conical Sharp P = Optimised geometry for best thermal performance 0.4mm x 8.5mm (.016" x .34")</p>

**STTC Soldering Cartridges**



CONICAL

**STTC SOLDERING CARTRIDGES**

Compatible with: MX-500 to MX-5200 Systems / MX-RM3E and MX-H1-AV hand-pieces

	<p>STTC-506 STTC-006 STTC-106 STTC-806</p>	<p>Conical Sharp 0.4mm x 13.7mm (.016" x .54")</p>
	<p>STTC-545 STTC-045 STTC-145 STTC-845</p>	<p>Conical Sharp 0.4mm x 14.7mm (.016" x .58")</p>
	<p>STTC-540 STTC-040 STTC-140 STTC-840</p>	<p>Conical Sharp Bent 30° Long Reach 0.4mm x 16mm (.016" x .63")</p>
	<p>STTC-511 STTC-011 STTC-111</p>	<p>Conical Sharp 0.5mm x 4.6mm (.02" x .18")</p>
	<p>STTC-516 STTC-016 STTC-116 STTC-816</p>	<p>Conical Sharp 0.5mm x 4.8mm (.02" x .19")</p>
	<p>STTC-544 STTC-044 STTC-144 STTC-844</p>	<p>Conical Sharp Bent 30° Long Reach 0.5mm x 14.5mm (.02" x .57")</p>
	<p>STTC-543 STTC-043 STTC-143 STTC-843</p>	<p>Conical Sharp 0.5mm x x 15.2mm (.02" x .6")</p>
	<p>STTC-101P STTC-801P</p>	<p>Conical P = Optimised geometry for best thermal performance 1.0mm x 6.5mm (.04" x .25")</p>
	<p>STTC-531 STTC-031 STTC-131</p>	<p>Conical 1.0mm x 9.9mm (.04" x .39")</p>
	<p>STTC-501 STTC-001 STTC-101</p>	<p>Conical 1.0mm x 13.5mm (.04" x .53")</p>

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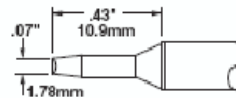
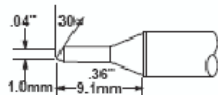
**STTC SOLDERING CARTRIDGES**

Compatible with: MX-500 to MX-5200 Systems / MX-RM3E and MX-H1-AV hand-pieces

<b>CONICAL</b>		<p>STTC-507 STTC-007 STTC-107</p>	<p>Conical 1.0mm x 16.7mm (.04" x .66")</p>
		<p>STTC-541 STTC-041 STTC-141 STTC-841</p>	<p>Conical Bent 30° Long Reach 1.3 mm x 21.8mm (.05" x .86")</p>
<b>BEVEL</b>		<p>STTC-546 STTC-046 STTC-146 STTC-846</p>	<p>Long Reach Bevel 60° 1.00mm x 14.2mm (.04"x .56")</p>
		<p>STTC-147P STTC-847P</p>	<p>Bevel 60° P = Optimised geometry for best thermal performance 1.78mm x 6.4mm (.07" x .25")</p>
		<p>STTC-535 STTC-035 STTC-135</p>	<p>Bevel 30° 1.78mm x 9.9mm (.07"x .39")</p>
		<p>STTC-505 STTC-005 STTC-105</p>	<p>Bevel 30° 1.78mm x 11.7mm (.07"x .46")</p>
		<p>STTC-547 STTC-047 STTC-147 STTC-847</p>	<p>Long Reach Bevel 60° 1.78mm x 14.2mm (.07"x .56")</p>

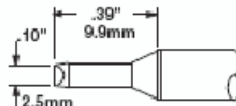
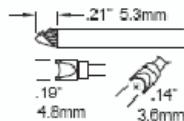
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**STTC-124**  
Neigung 30°,  
Neigungslänge  
1,0 mm



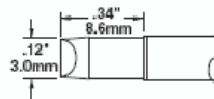
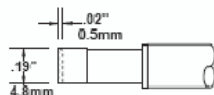
**STTC-X04**  
Meißel 90°  
1,78mm (0,07")

**STTC-197**  
Halbrund, konisch  
zulaufend für  
Coaxkabel, Ø 3,6 mm



**STTC-X33**  
Meißel 90°  
2,5mm (0,10")

**STTC-170**  
Lötstempel,  
Ø 4,8 mm



**STTC-X03\***  
Chisel 90°  
.12" (3.0mm)



Compatible with MX-500 to MX-5200 Systems and MX-H2-UF hand-piece

<p><b>UFTC ULTRAFINE SOLDERING CARTRIDGES</b></p>			
<p><b>CONICAL</b></p>		<p>UFTC-7CN01</p>	<p>Conical 0.13mm x 5.1mm (.005" x .20")</p>
		<p>UFTC-7CN02</p>	<p>Conical 0.2mm x 5.1mm (.01" x .20")</p>
		<p>UFTC-7CNB02</p>	<p>Conical Bent 0.2mm x 5.5mm (0.01" x .22")</p>
		<p>UFTC-7CN04</p>	<p>Conical 0.4mm x 5.1mm (.02" x 0.20")</p>
		<p>UFTC-7CNL04</p>	<p>Conical Long 0.4mm x 8mm (.02" x .31")</p>
		<p>UFTC-7CNB04</p>	<p>Conical Bent 0.4mm x 5.5mm (.02" x .22")</p>
<p><b>HOOF</b></p>		<p>UFTC-7DRH408</p>	<p>Hoof Micro 0.8mm x 5.1mm (.03" x .20")</p>
		<p>UFTC-7DHR412</p>	<p>Hoof Micro 1.2mm x 5.1mm (.048" x .20")</p>

7 = 700 Series for most standard applications



Compatible with MX-500 to MX-5200 Systems and MX-H2-UF hand-piece

CHISEL

UFTC ULTRAFINE SOLDERING CARTRIDGES		
	UFTC-7CH06	Chisel 0.6mm x 5.1mm (.024" x .20")
	UFTC-7CHL06	Chisel Long 0.6mm x 9mm (.024" x .35")
	UFTC-7CH08	Chisel 0.8mm x 5.1mm (.03" x .2")
	UFTC-7CHL08	Chisel Long 0.8mm x 9mm (.03" x .35")
	UFTC-7CH12	Chisel 1.2mm x 5.1mm (.05" x .20")

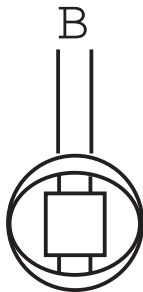
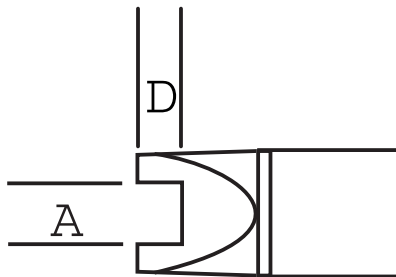
7 = 700 Series for most standard applications



Compatible with: MX-500 to MX-5200 Systems, MX-RM3E and MX-H1-AV hand-pieces.  
All dimensions shown are in mm (inches)

## SMTC REWORK CARTRIDGES

SLOT



	A	D	B	SMT TYPE
SMTC-505 SMTC-005 SMTC-105	1.7 (.068)	1.27 (.05)	2.5 (.10)	SOT-32
SMTC-596 SMTC-096 SMTC-196	1.78 (.070)	1.02 (.040)	1.02 (.040)	Chip 0402, 0603
SMTC-588 SMTC-088 SMTC-188	2.03 (.080)	1.52 (.60)	1.27 (.050)	Chip 0402, 0603, 0805
SMTC-501 SMTC-001 SMTC-101	2.3 (.090)	1.8 (.070)	1.3 (.050)	Chip 0805
SMTC-502 SMTC-002 SMTC-102	3.6 (.14)	1.8 (.07)	1.5 (.06)	Chip 1206,1210
SMTC-132	3.81 (.150)	2.54 (.10)	2.41 (.095)	Chip Box B EIA SOPM-3528
SMTC-536 SMTC-036 SMTC-136	4.8 (.190)	4.06 (.16)	2.8 (.110)	Chip Box B EIA SOPM-4532
SMTC-503 SMTC-003 SMTC-103	4.83 (.190)	1.91 (.075)	2.03 (.080)	Chip 1812

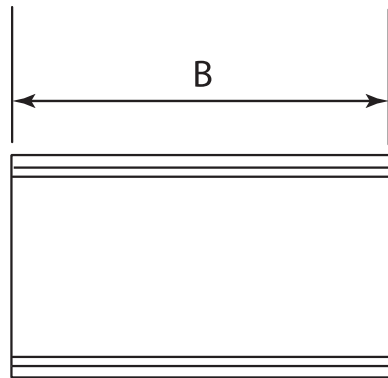
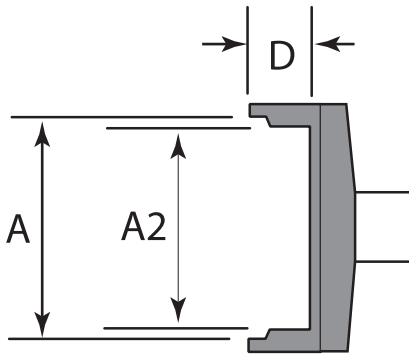
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SMTC Rework Cartridges

Compatible with: MX-500 to MX-5200 Systems, MX-RM3E and MX-H1-AV hand-pieces  
 All dimensions shown are in mm (inches)

TUNNEL

**SMTC REWORK CARTRIDGES**



	<b>A</b>	<b>A2</b>	<b>D</b>	<b>B</b>	<b>SMT TYPE</b>
SMTC-004 SMTC-104	5.08 (.20)	5.08 (.20)	2.3 (.90)	4.32 (.17)	SOIC-8
SMTC-006 SMTC-106	5.08 (.20)	5.08 (.20)	2.3 (.90)	10.16 (.40)	SOIC-14,16
SMTC-0142 SMTC-1142	5.18 (.204)	5.18 (.204)	2.54 (.100)	8.89 (.350)	SOIC-14
SMTC-047 SMTC-147	8.51 (.335)	8.51 (.335)	5.08 (.200)	6.35 (.250)	DPAC
SMTC-126	8.64 (.340)	8.0 (.315)	1.88 (.074)	18.8 (.740)	SOJ-28, SOM-32
SMTC-007 SMTC-107	9.53 (.375)	9.53 (.375)	3.20 (.125)	18.3 (.720)	SOIC-28
SMTC-009 SMTC-109	9.53 (.375)	9.53 (.375)	3.18 (.125)	15.75 (.620)	SOIC-24
SMTC-010 SMTC-110	9.53 (.375)	9.53 (.375)	3.20 (.125)	13.20 (.520)	SOIC-20
SMTC-040 SMTC-140	11.43 (.450)	10.40 (.410)	1.90 (.075)	25.9 (1.02)	SOJ-40, SOM-32

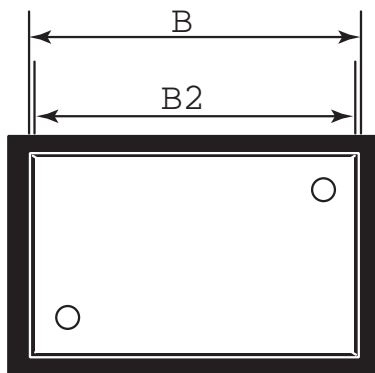
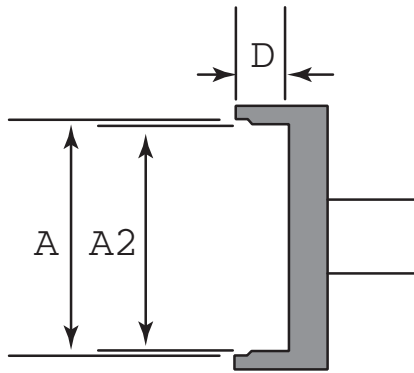
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SMTC Rework Cartridges

Compatible with: MX-500 to MX-5200 Systems, MX-RM3E and MX-H1-AV hand-pieces  
All dimensions shown are in mm (inches)

## SMTC REWORK CARTRIDGES

QUAD



	A	A2	D	B	B2	SMT TYPE
SMTC-0121 SMTC-1121	8.38 (.330)	8.38 (.330)	2.54 (.100)	8.38 (.330)	8.38 (.330)	SQFP 48 (EIJA)
SMTC-0112 SMTC-1112	10.16 (.400)	9.14 (.360)	3.80 (.150)	10.16 (.400)	9.14 (.360)	PLCC 20
SMTC-0120 SMTC-1120	11.18 (.440)	11.18 (.440)	2.54 (.100)	11.18 (.440)	11.18 (.440)	SQFP 64 (EIJA)
SMTC-1159	12.19 (.480)	11.18 (.440)	2.79 (.110)	13.21 (.520)	12.19 (.480)	TQFP 44
SMTC-013 SMTC-113	12.70 (.500)	11.56 (.455)	3.80 (.150)	12.70 (.500)	11.56 (.455)	PLCC 28
SMTC-116	12.70 (.500)	11.43 (.450)	3.80 (.150)	15.24 (.600)	13.97 (.550)	PLCC 32
SMTC-1132	13.34 (.525)	12.32 (.485)	2.79 (.110)	13.34 (.525)	12.32 (.485)	TQFP 80
SMTC-0118 SMTC-1118	15.49 (.610)	14.48 (.570)	2.79 (.110)	15.49 (.610)	14.48 (.570)	VQFP 100 (EIJA)
SMTC-043 SMTC-143	16.51 (.650)	16.51 (.650)	3.30 (.130)	22.48 (.885)	22.48 (.885)	QFP 100 Rectangular
SMTC-014 SMTC-114	17.78 (.700)	16.76 (.660)	3.80 (.150)	17.78 (.700)	16.76 (.660)	PLCC 44
SMTC-117	20.32 (.800)	19.30 (.760)	3.80 (.150)	20.32 (.800)	19.30 (.760)	PLCC 52
SMTC-118	25.27 (.995)	19.30 (.760)	3.80 (.150)	25.27 (.995)	19.30 (.760)	PLCC 68
SMTC-144	26.42 (1.040)	26.42 (1.040)	3.30 (.130)	26.42 (1.040)	26.42 (1.040)	QFP 100 Square

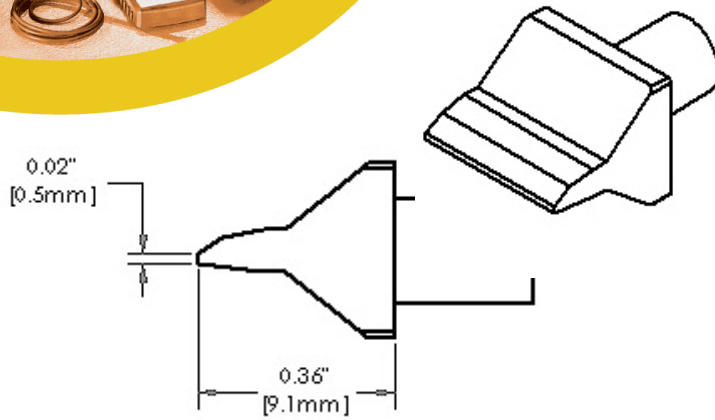
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# New Product Introduction

## Metcal SMTC High Mass Blade Tips

New Product Intro



OK International is pleased to announce a new range of high mass SMTC blades which utilize the available power from the MX-5000 delivering a safer cleaning process and reducing the risk of damage to solder resist. These tips were developed by increasing mass on tip without increasing temperature. The range includes length sizes of 5mm, 10mm, 15mm, 25mm and 35mm, and is available in 600, 700 and 800 series.

- Replace x by either 0, 1 or 8:**  
**0 = 600 Series for temperature sensitive applications**  
**1 = 700 Series for most standard applications.**  
**8 = 800 Series for Ceramic and high thermal demand**

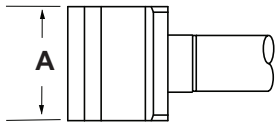
Part Number		Part Number	
SMTC-xBL050		SMTC-xBL100	
SMTC-xBL150		SMTC-xBL350	
SMTC-xBL250			

**NOTE:** These new tips have been designed specifically for use with the MX-5000. Due to the lower available power, blades longer than 15mm are not suitable for use on MX-500 systems.

Compatible with: MX-500 to MX-5200 Systems, MX-RM3E and MX-H1-AV hand-pieces

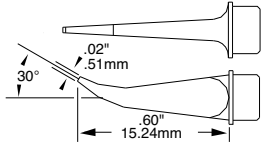
BLADE

**SMTC REWORK CARTRIDGES**



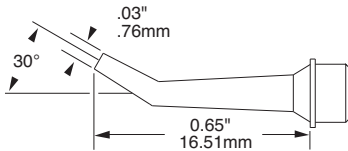
	<b>A</b>	<b>BLADE TYPE</b>
SMTC-064 SMTC-164	5mm (.20")	Pad Cleaning
SMTC-560 SMTC-060 SMTC-160 SMTC-860	10mm (.40")	Pad Cleaning
SMTC-561 SMTC-061 SMTC-161 SMTC-861	15.75mm (.62")	Pad Cleaning
SMTC-562 SMTC-062 SMTC-162 SMTC-862	22mm (.86")	Pad Cleaning

HOOK & CONICAL



SMTC-5172  
SMTC-0172  
SMTC-1172  
SMTC-8172

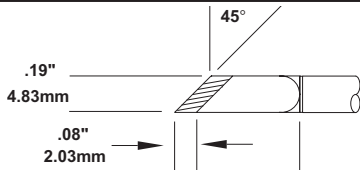
Hook Long, 30° Bent  
0.5mm x 15.24mm (.02"x.06")



SMTC-5171  
SMTC-0171  
SMTC-1171  
SMTC-8171

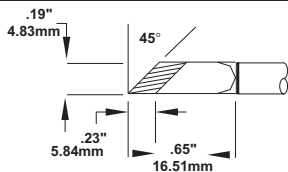
Concave, 30° Bent  
0.76mm x 16.51mm (.03"x .65")

KNIFE



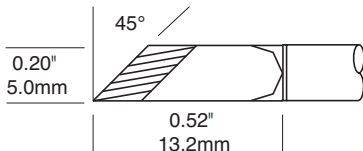
SMTC-5161  
SMTC-0161  
SMTC-1161

Knife 45° - Tinned  
Area Length 2.03mm (.08")  
4.8mm x 16.51mm (.18"x .65")



SMTC-5173  
SMTC-1173  
SMTC-8173

Knife 45° - Increased tinned  
Area Length 5.84mm (.23")  
4.8mm x 16.51mm (.18"x .65")



STTC-1173P  
STTC-8173P

Knife 45° - Increased tinned  
Area Length 5.84mm (.23")  
5.0mm x 13.2mm (.20" x .52")

SMTC Rework Cartridges

**SMTC REWORK CARTRIDGES**

Compatible with: MX-500 and MX-5000 Systems, MX-RM3E and MX-H1-AV hand-pieces

<b>HOOF</b>		<p>SMTC-5175 SMTC-0175 SMTC-1175 SMTC-8175</p>	<p>Micro Hoof 60° 0.89mm x 11.43mm (.035"x.45")</p>
		<p>SMTC-5174 SMTC-0174 SMTC-1174</p>	<p>Micro Hoof 60° Long Reach 1.14mm x 16.51mm (.045"x.65")</p>
		<p>SMTC-5167 SMTC-0167 SMTC-1167</p>	<p>Hoof 30° Long Reach 1.52mm x 16.51mm (.06"x.65")</p>
		<p>SMTC-5169 SMTC-0169 SMTC-1169</p>	<p>Hoof 60° Long Reach 2mm x 15.24mm (.08" x .60")</p>
		<p>SMTC-0183 SMTC-1183</p>	<p>Hoof Concave 30° Bent 2.5mm x 16.36mm (.01" x.64")</p>
		<p>SMTC-5170 SMTC-0170 SMTC-1170</p>	<p>Hoof 60° Long Reach 3mm x 15.24mm (.12" x.60")</p>
		<p>SMTC-5147 SMTC-0147 SMTC-1147 SMTC-8147</p>	<p>Hoof 60° Long Reach 3.3mm x 17.78mm (.13" x .70")</p>
<b>SPECIALITY</b>		<p>SMTC-198</p>	<p>28 Pin SMT Connector</p>

5 = 500 Series and 0 = 600 Series for temperature sensitive applications - 1 = 700 Series for most standard applications.  
8 = 800 Series for Ceramic and high thermal demand applications.

**PTTC TWEezer CARTRIDGES**

Compatible with: MX-5200 to 500 Systems and MX-PTZ Precision Tweezers hand-piece

<b>CONICAL</b>		<p>PTTC-601 PTTC-701 PTTC-801</p>	<p>Conical 0.4mm x 19mm (.016" x .75")</p>
		<p>PTTC-701B PTTC-801B</p>	<p>Conical Bent 30° 0.4mm x 14.3mm (.016" x .56")</p>
<b>BLADE</b>		<p>PTTC-602 PTTC-702 PTTC-802</p>	<p>Blade, thickness 1mm (.04") 1.3mm x 16.5mm (.05" x .65")</p>
		<p>PTTC-603 PTTC-703 PTTC-803</p>	<p>Blade, thickness 1mm (.04") 2mm x 16.5mm (.08" x .65")</p>
		<p>PTTC-608B PTTC-708B PTTC-808B</p>	<p>Blade Bent 30° 3.5mm x 12.1mm (0.12" x .48")</p>
		<p>PTTC-604 PTTC-704 PTTC-804</p>	<p>Blade Bent 22°, thickness 0.7mm (.28") 6.35mm x 12.7mm (.25" x .50")</p>
<b>PTTC Tweezer Cartridges</b>		<p>PTTC-605 PTTC-705 PTTC-805</p>	<p>Blade Bent 22°, thickness 0.7mm (.28") 16mm x 12.7mm (.63" x .50")</p>
		<p>PTTC-606 PTTC-706 PTTC-806</p>	<p>Blade Bent 22°, thickness 0.7mm (.28") 20.5mm x 12.7mm (.80" x .50")</p>
		<p>PTTC-607 PTTC-707 PTTC-807</p>	<p>Blade Bent 22°, thickness 0.7mm (.28") 28mm x 12.7mm (1.1" x .50")</p>
		<p>PTTC-606 PTTC-706 PTTC-806</p>	<p>Blade Bent 22°, thickness 0.7mm (.28") 20.5mm x 12.7mm (.80" x .50")</p>

6 = 600 Series for temperature sensitive applications. 1 = 700 Series for most standard applications.  
8 = 800 Series for Ceramic and high thermal demand applications.

**TATC TALON CARTRIDGES**

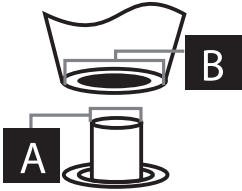

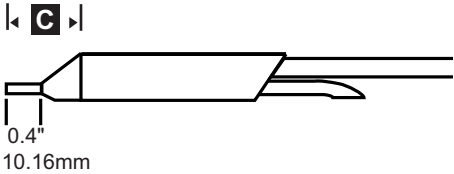
Compatible with: MX-5200 to 500 Systems and MX-Talon hand-piece

	<p>TATC-609</p>	<p>Fine Point, thickness 0.35mm (.0137") 0.5mm x 12.45mm (.02" x .49")</p>
	<p>TATC-601</p>	<p>Fine Point, thickness 1.2mm (.047") 0.5mm x 12.45mm (.02" x .49")</p>
	<p>TATC-608</p>	<p>Dual Side, angled Point 1.27mm (.05")</p>
	<p>TATC-602</p>	<p>Blade 6.35mm x 10.16mm (.25" x .40")</p>
	<p>TATC-605</p>	<p>Blade 10mm x 10.93mm (.394" x .43")</p>
	<p>TATC-603</p>	<p>Blade 15.75mm x 8.38mm (.62" x .33")</p>
	<p>TATC-604</p>	<p>Blade 20.57mm x 8.38mm (.81" x .33")</p>
	<p>TATC-606</p>	<p>Blade 27.94mm x 7.62mm (1.1" x .30")</p>

0 = 600 Series for temperature sensitive applications.



Compatible with: MX-500 to MX-5200 Systems, MX-DS1 Desoldering hand-piece  
 All dimensions shown are in mm (inches)

STDC DESOLDER CARTRIDGES		A	B	C	TYPE
   Standard	STDC-102 STDC-802	0.64 (.025)	1.40 (.055)	11.43 (.45)	Standard
	STDC-103 STDC-803	0.76 (.029)	1.68 (.066)	11.17 (.44)	Standard
	STDC-104 STDC-804	1.02 (.04)	1.78 (.07)	10.92 (.43)	Standard
	STDC-105 STDC-805	1.27 (.05)	2.03 (.08)	10.66 (.42)	Standard
	STDC-106 STDC-806	1.52 (.06)	2.29 (.09)	10.41 (.41)	Standard
	STDC-107 STDC-807	2.41 (.09)	3.18 (.12)	9.14 (.36)	Standard
	 Long Reach	STDC-703L STDC-803L	0.76 (.03)	1.68 (.06)	21.33 (.84)
STDC-704L STDC-804L		1.02 (.04)	1.79 (.07)	21.08 (.83)	Long Reach
STDC-705L STDC-805L		1.27 (.05)	2.03 (.08)	20.82 (.82)	Long Reach

1 = 700 Series (standard length) and 7 = 700 Series (long reach) for most standard applications.  
 8 = 800 Series for Ceramic and high thermal demand applications.

# Metcal Cartridges



Compatible with: Metcal SP200, OKi MFR-1160 Systems,  
Metcal SP-HC1 and OKi MFR-H6-SSC hand-pieces

CHISEL

SSC SOLDERING CARTRIDGES		
	<p>SSC-671A SSC-771A</p>	<p>Chisel 1.0mm x 9.1mm (.04" x .36")</p>
	<p>SSC-625A SSC-725A</p>	<p>Chisel 30° 1.0mm x 11mm (.04" x .43")</p>
	<p>SSC-638A SSC-738A</p>	<p>Chisel 30° 1.5mm x 10mm (.06" x .40")</p>
	<p>SSC-637A SSC-737A</p>	<p>Chisel 30° 1.78mm x 9.9mm (.07" x .40")</p>
	<p>SSC-672A SSC-772A</p>	<p>Chisel 1.78mm x 9.9mm (.07" x .39")</p>
	<p>SSC-642A SSC-742A</p>	<p>Long Reach Chisel 60° 1.78mm x 16mm (.07" x .63")</p>
	<p>SSC-670A SSC-770A</p>	<p>Long Reach Chisel 1.78mm x 16.5mm (.07" x .65")</p>
	<p>SSC-636A SSC-736A</p>	<p>Chisel 30° 2.5mm x 9.9mm (.10" x .39")</p>
	<p>SSC-613A SSC-713A</p>	<p>Chisel 90° 3.0mm x 7.6mm (.12" x .30")</p>
	<p>SSC-646A SSC-746A</p>	<p>Long Reach Chisel 3.0mm x 16.5mm (.12" x .65")</p>

6 = 600 Series for temperature sensitive applications - 7 = 700 Series for most standard applications.



Compatible with: Metcal SP200, OKi MFR-1160 Systems, Metcal SP-HC1 and OKi MFR-H6-SSC hand-pieces

CONICAL

SSC SOLDERING CARTRIDGES		
	<p>SSC-617A SSC-717A</p>	<p>Extra Large Chisel 5.3mm x 10mm (.21" x .40")</p>
	<p>SSC-690A SSC-790A</p>	<p>Long Reach Micro Fine Conical 0.25mm x 13.2mm (.01" x .52")</p>
	<p>SSC-645A SSC-745A</p>	<p>Conical Sharp Long Reach 0.4mm x 19mm (.016" x .75")</p>
	<p>SSC-622A SSC-722A</p>	<p>Conical Sharp 0.51mm x 11.4mm (.02" x .45")</p>
	<p>SSC-626A SSC-726A</p>	<p>Conical Sharp Bent 30° 0.51mm x 11.4mm (.02" x .45")</p>
	<p>SSC-654A SSC-754A</p>	<p>Conical Sharp Bent 30° Long Reach 0.5mm x 18.5mm (.02" x .73")</p>
	<p>SSC-601A SSC-701A</p>	<p>Conical Sharp 1.0mm x 15.2mm (.04" x .60")</p>
	<p>SSC-674A SSC-774A</p>	<p>Conical 1.4mm x 15mm (.055" x .590")</p>

6 = 600 Series for temperature sensitive applications - 7 = 700 Series for most standard applications.



**SSC SOLDERING CARTRIDGES**

Compatible with: Metcal SP200, OKi MFR-1160 Systems, Metcal SP-HC1 and OKi MFR-H6-SSC hand-pieces

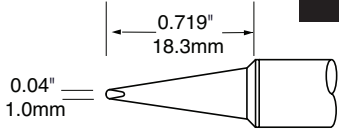
<b>HOOF</b>		<p>SSC-667A SSC-767A</p>	<p>Mini-Hoof 1.27mm x 17.8mm (.05" x .70")</p>
		<p>SSC-639A SSC-739A</p>	<p>Hoof 2.3mm x 17.8mm (.016" x .70")</p>
<b>KNIFE</b>		<p>SSC-661A SSC-761A</p>	<p>Knife 45° 4.5mm x 16.25mm (.18" x .64")</p>
		<p>SSC-673A SSC-773A</p>	<p>Knife 45° Increased tinned area 6,1mm 5.1mm x 16.25mm (.24" x .64")</p>
<b>BEVEL</b>		<p>SSC-647A SSC-747A</p>	<p>Bevel 60° 1.78mm x 14.2mm (.07" x .56")</p>

6 = 600 Series for temperature sensitive applications - 7 = 700 Series for most standard applications.

Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems, PS-HC3 and MFR-H2-ST2 hand-pieces, PS-CA3 and MFR-CA3 Coil Assemblies

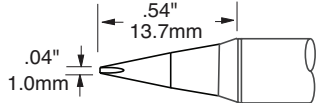
CHISEL

**SxV SOLDERING TIPS**



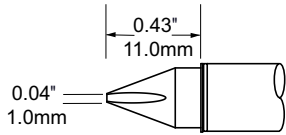
SFV-CH10A  
STV-CH10A  
SCV-CH10A

Chisel  
*Optimised for thermal performance*  
1.0mm x 18.3mm (.04" x .719")



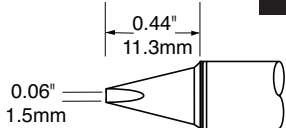
SFV-CH10AR  
STV-CH10AR  
SCV-CH10AR

Chisel  
*Original Easy Access Geometry*  
1.0mm x 13.7mm (.04" x .54")



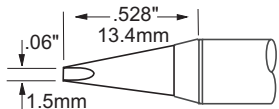
SFV-CH10  
STV-CH10  
SCV-CH10

Chisel  
1.0mm x 11mm (.04" x .43")



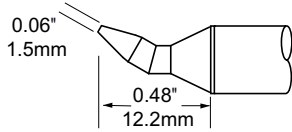
SFV-CH15A  
STV-CH15A  
SCV-CH15A

Chisel  
*Optimised for thermal performance*  
1.5mm x 11.3mm (.06" x .44")



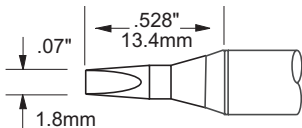
SFV-CH15AR  
STV-CH15AR  
SCV-CH15AR

Chisel  
*Original Easy Access Geometry*  
1.5mm x 13.4mm (.06" x .528")



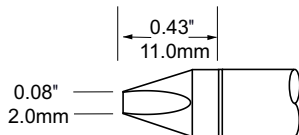
SFV-CHB15  
STV-CHB15  
SCV-CHB15

Chisel Bent 30°  
1.5mm x 12.2mm (.06" x .48")



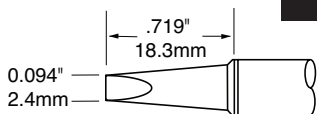
SFV-CH18AR  
STV-CH18AR  
SCV-CH18AR

Chisel  
*Original Easy Access Geometry*  
1.8mm x 13.4mm (.07" x .528")



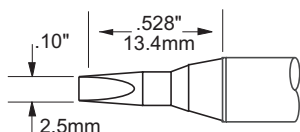
SFV-CH20  
STV-CH20  
SCV-CH20

Chisel  
2.0mm x 11mm (.08" x .43")



SFV-CH24A  
STV-CH24A  
SCV-CH24A

Chisel Long Reach  
*Optimised for thermal performance*  
2.4mm x 18.3mm (.094" x .719")

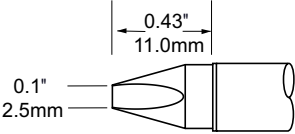
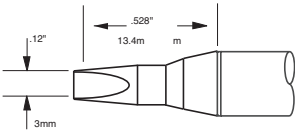
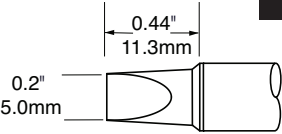
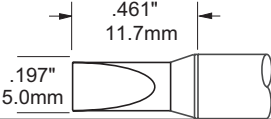
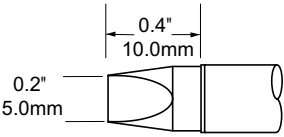
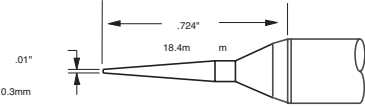
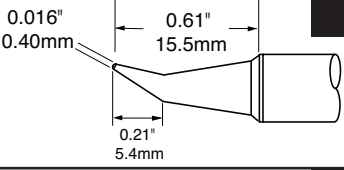
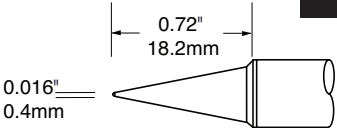
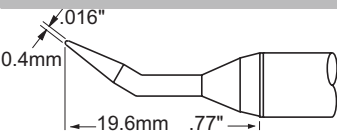
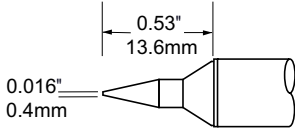


SFV-CH25AR  
STV-CH25AR  
SCV-CH25AR

Chisel  
*Original Easy Access Geometry*  
2.5mm x 13.4mm (.10" x .528")

SxV Soldering Tips

Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems, PS-HC3 and MFR-H2-ST2 hand-pieces, PS-CA3 and MFR-CA3 Coil Assemblies

<b>SxV SOLDERING TIPS</b>		
<b>CHISEL</b>		SFV-CH25 STV-CH25 SCV-CH25  Chisel 2.5mm x 11mm (.10" x .43")
		SFV-CH30AR STV-CH30AR SCV-CH30AR  Chisel <i>Original Easy Access Geometry</i> 3.0mm x 13.4mm (.12" x .528")
		SFV-CH50A STV-CH50A SCV-CH50A  Chisel <i>Optimised for thermal performance</i> 5.0mm x 11.3mm (.20" x .44")
		SFV-CH50AR STV-CH50AR SCV-CH50AR  Chisel <i>Original Easy Access Geometry</i> 5.0mm x 11.7mm (.197" x .461")
		SFV-CH50 STV-CH50 SCV-CH50  Chisel 5.0mm x 10mm (.20" x .4")
<b>CONICAL</b>		SFV-CNL03AR STV-CNL03AR SCV-CNL03AR  Conical Long Reach <i>Original Easy Access Geometry</i> 0.3mm x 18.4mm (.01" x .724")
		SFV-CNB04A STV-CNB04A SCV-CNB04A  Conical Bent Long Reach <i>Optimised for thermal performance</i> 0.4mm x 15.5mm (.016" x .61")
		SFV-CN05A STV-CN05A SCV-CN05A  Conical Long Reach <i>Optimised for thermal performance</i> 0.4mm x 18.2mm (.016" x .72")
		SFV-CNB04AR STV-CNB04AR SCV-CNB04AR  Conical Bent <i>Original Easy Access Geometry</i> 0.4mm x 19.6mm (.016" x .77")
		SFV-CNL04 STV-CNL04 SCV-CNL04  Conical 0.4mm x 13.6mm (.016" x .53")

Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems,  
PS-HC3 and MFR-H2-ST2 hand-pieces, PS-CA3 and MFR-CA3 Coil Assemblies

CONICAL	<b>SxV SOLDERING TIPS</b>		
		SFV-CN05AR STV-CN05AR SCV-CN05AR	Conical <i>Original Easy Access Geometry</i> 0.5mm x 13.7mm (.02" x .53")
		SFV-CN05 STV-CN05 SCV-CN05	Conical 0.5mm x 8.5mm (.02" x .34")
		SFV-CNB05 STV-CNB05 SCV-CNB05	Conical Bent 0.5mm x 13mm (.02" x .51")
		SFV-CNL10A STV-CNL10A SCV-CNL10A	Conical Long Reach <i>Optimised for thermal performance</i> 1.0mm x 18mm (.04" x .71")
		SFV-CNL10AR STV-CNL10AR SCV-CNL10AR	Conical Long Reach <i>Original Easy Access Geometry</i> 1.0mm x 13.7mm (.04" x .54")
		SFV-CNL10 STV-CNL10 SCV-CNL10	Conical Long Reach 1.0mm x 13mm (.04" x .51")
		SFV-CNL14 STV-CNL14 SCV-CNL14	Conical Long Reach 1.4mm x 15mm (.056" x .59")
		SFV-DRH20 STV-DRH20 SCV-DRH20	Conical Bevel 2.0mm x 14mm (.08" x .55")
		SFV-CNL20 STV-CNL20 SCV-CNL20	Conical Long Reach 2.0mm x 14mm (.08" x .59")
	SFV-WV20 STV-WV20 SCV-WV20	Conical Wave Hoof 45° 2.0mm x 13.8mm (.08" x .54")	

Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems,  
PS-HC3 and MFR-H2-ST2 hand-pieces, PS-CA3 and MFR-CA3 Coil Assemblies

HOOF

SxV SOLDERING TIPS

	<p>SFV-DRH420AR STV-DRH420AR SCV-DRH420AR</p>	<p>Hoof 45° Long Reach 2.0mm x 20.7mm (.08" x .81")</p>
	<p>SFV-DRH20CP STV-DRH20CP SCV-DRH20CP</p>	<p>Hoof 45° <i>CP = Chrome Plating, face only</i> 2.5mm x 13mm (.10" x .51")</p>
	<p>SFV-DRH430AR STV-DRH430AR SCV-DRH430AR</p>	<p>Hoof 45° Long Reach <i>Original Easy Access Geometry</i> 3mm x 20.4mm (.12" x .8")</p>
	<p>SFV-DRH420A STV-DRH420A SCV-DRH420A</p>	<p>Hoof <i>Optimised for thermal performance</i> 3.47mm x 12.2mm (.137" x .48")</p>
	<p>SFV-DRH30CP STV-DRH30CP SCV-DRH30CP</p>	<p>Hoof 45° <i>CP = Chrome Plating, face only</i> 3.6mm x 13mm (.14" x .51")</p>
	<p>SFV-DRH640AR STV-DRH640AR SCV-DRH640AR</p>	<p>Hoof 60° Long Reach <i>Original Easy Access Geometry</i> 4mm x 17mm (.15" x .67")</p>
	<p>SFV-DRH40CP STV-DRH40CP SCV-DRH40CP</p>	<p>Hoof 45° <i>CP = Chrome Plating, face only</i> 4.6mm x 13mm (.18" x .51")</p>
	<p>SFV-DRH440A STV-DRH440A SCV-DRH440A</p>	<p>Hoof <i>Optimised for thermal performance</i> 4.75mm x 13.2mm (.187" x .52")</p>
	<p>SFV-DRK30AR STV-DRK30AR SCV-DRK30AR</p>	<p>Knife 45° Long Reach <i>Original Easy Access Geometry</i> 3mm x 18.7mm (.12" x .74")</p>
	<p>SFV-DRK45AR STV-DRK45AR SCV-DRK45AR</p>	<p>Knife 45° Long Reach <i>Original Easy Access Geometry</i> 4.5mm x 18.7mm (.18" x .74")</p>

KNIFE





Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems, PS-HC3 and MFR-H2-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies

<b>KNIFE</b>		<p>SFV-DRK45A STV-DRK45A SCV-DRK45A</p>	<p>Knife 45° <i>Optimised for thermal performance</i> 5.0mm x 15.1mm (.20" x .60")</p>
		<p>SFV-DRK50 STV-DRK50 SCV-DRK50</p>	<p>Knife 45° 5.0mm x 14mm (.20" x .55")</p>

F = FR4 / Fiber Glass, for most standard applications T = Temperature Sensitive C = Ceramic for high thermal demand applications.

<p><b>CxV BLADE TIPS</b></p>	<p>Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems, PS-HC3 and MFR-H2-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies</p>			<b>A</b>
	CFV-BL100 CTV-BL100 CCV-BL100	10mm (.40")		
	CFV-BL250 CTV-BL250 CCV-BL250	25mm (1")		
	CFV-BL350 CTV-BL350 CCV-BL350	35mm (1.4")		
	CFV-BL400 CTV-BL400 CCV-BL400	40mm (1.6")		
	CFV-BL500 CTV-BL500 CCV-BL500	50mm (2")		

F = FR4 / Fiber Glass, for most standard applications T = Temperature Sensitive C = Ceramic for high thermal demand applications.

<b>CHISEL</b>	<p><b>PHT SOLDERING TIPS</b></p>	<p>PHT-750315 PHT-650315</p>	<p>Chisel Fine 30° 1.0mm x 10mm (.04" x .394")</p>
		<p>PHT-750325 PHT-650325</p>	<p>Chisel 60° 1.5mm x 10mm (.06" x .394")</p>
		<p>PHT-750326 PHT-650326</p>	<p>Chisel Fine Bent 30° 1.5mm x 12mm (.06" x .472")</p>
		<p>PHT-750335 PHT-650335</p>	<p>Chisel 30° 1.78mm x 10mm (.07" x .394")</p>

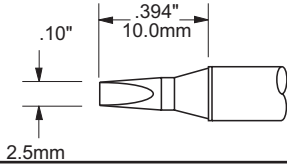
75 = 750 Series for most standard applications - 65 = 650 Series for temperature sensitive applications



Compatible with: PS-800, PS-800E and PS-900 Systems and PS-CA1 Coil Assembly

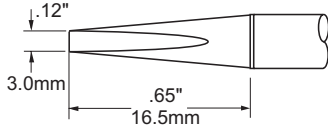
CHISEL

**PHT SOLDERING TIPS**



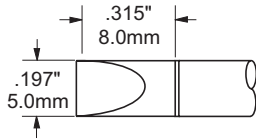
PHT-751355  
PHT-651355

Chisel 30°  
2.5mm x 10mm (.10" x .394")



PHT-751367  
PHT-651367

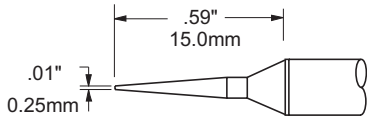
Chisel 30° Long Reach  
3.0mm x 16.5mm (.12" x .65")



PHT-751384  
PHT-651384

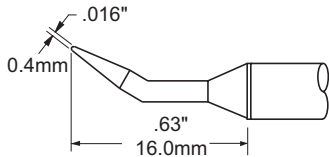
Chisel 30°  
3.0mm x 8mm (.12" x .315")

CONICAL



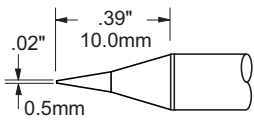
PHT-752017  
PHT-652017

Conical Fine Long Reach  
0.25mm x 15mm (.01" x .59")



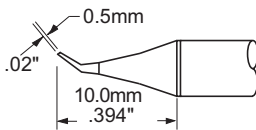
PHT-752327  
PHT-652327

Conical Fine Bent  
Long Reach  
0.4mm x 16mm (.016" x .63")



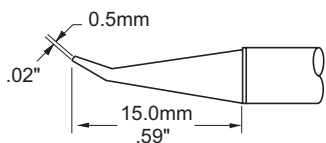
PHT-752035  
PHT-652035

Conical Fine  
0.5mm x 10mm (.02" x .39")



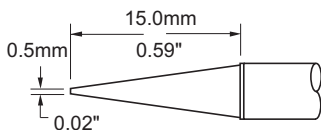
PHT-752335  
PHT-652335

Conical Fine 30°  
0.5mm x 10mm (.02" x .394")



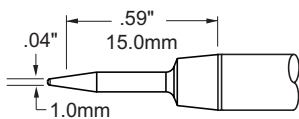
PHT-752337  
PHT-652337

Conical Fine Bent 30°  
Long Reach  
0.5mm x 15mm (.02" x .59")



PHT-753035  
PHT-653035

Conical 30°  
Long Reach  
0.5mm x 15mm (.02" x .59")



PHT-752057  
PHT-652057

Conical Fine  
Long Reach  
1.0mm x 15mm (.04" x .59")

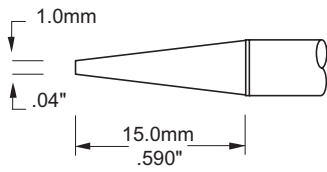
75 = 750 Series for most standard applications - 65 = 650 Series for temperature sensitive applications



**PHT SOLDERING TIPS**

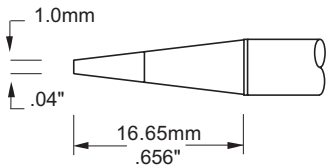
Compatible with: PS-800, PS-800E and PS-900 Systems and PS-CA1 Coil Assembly

CONICAL



PHT-753067  
PHT-653067

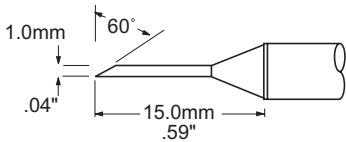
Conical Long Reach  
1.0mm x 15mm (.04" x .59")



PHT-753077  
PHT-653077

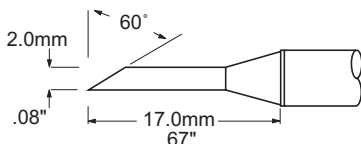
Conical Long Reach  
1.0mm x 16.6mm (.04" x .656")

HOOF



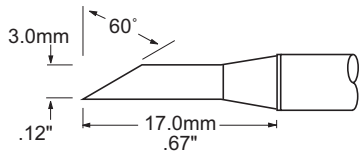
PHT-754627  
PHT-654627

Mini Hoof 60°  
1.0mm x 15mm (.04" x .59")



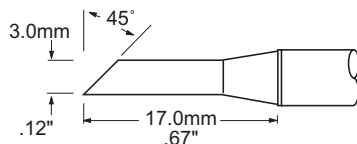
PHT-754667  
PHT-654667

Hoof 60°  
2.0mm x 17mm (.08" x .67")



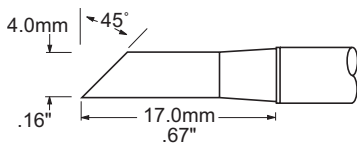
PHT-754687  
PHT-654687

Hoof 60°  
3.0mm x 17mm (.12" x .67")



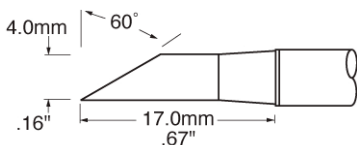
PHT-754487F  
PHT-654487F

Hoof 45°  
*F = Face Only*  
3.0mm x 17mm (.12" x .67")



PHT-654497

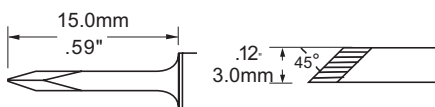
Hoof 45°  
4.00mm x 17mm (.16" x .67")



PHT-654697

Hoof 60°  
4.00mm x 17mm (.16" x .67")

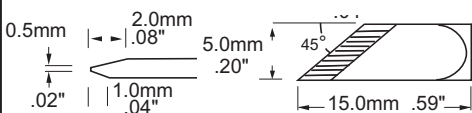
KNIFE



PHT-755437  
PHT-655437

Knife 45°  
4.5mm x 15mm (.18" x .59")

PHT Soldering Tips



PHT-755477  
PHT-655477

Knife 45°  
5.0mm x 15mm (.20" x .59")

CHISEL

SxP SOLDERING & REWORK CARTRIDGES		Compatible with: MFR-1110, MFR-1161, MFR-2211, MFR-2241 Systems and MFR-H1-SC2 hand-piece	
	<p>SFP-CH10 STP-CH10 SCP-CH10</p>	<p>Chisel 30° 1.0mm x 9.2mm (.04" x .36")</p>	
	<p>SFP-CH15 STP-CH15 SCP-CH15</p>	<p>Chisel 30° 1.5mm x 10mm (.06" x .39")</p>	
	<p>SFP-CHB15 STP-CHB15 SCP-CHB15</p>	<p>Chisel 30° Bent 1.5mm x 12.04mm (.06" x .474")</p>	
	<p>SFP-CH20 STP-CH20 SCP-CH20</p>	<p>Chisel 30° 2.0mm x 10mm (.08" x .4")</p>	
	<p>SFP-CHL20 STP-CHL20 SCP-CHL20</p>	<p>Chisel 60° Long Reach 2.0mm x 16.04mm (.08" x .632")</p>	
	<p>SFP-CH25 STP-CH25</p>	<p>Chisel 30° 2.5mm x 10mm (.10" x .39")</p>	
	<p>SFP-CH30 STP-CH30 SCP-CH30</p>	<p>Chisel 30° 3.0mm x 11mm (.12" x .43")</p>	
	<p>SFP-CH35 STP-CH35 SCP-CH35</p>	<p>Chisel 30° 3.5mm x 11mm (.12" x .43")</p>	
	<p>SFP-CH50 STP-CH50</p>	<p>Chisel 30° 5.0mm x 7.6mm (.20" x .3")</p>	

F = FR4 / Fiber Glass, for most standard applications T = Temperature Sensitive C = Ceramic for high thermal demand applications

SxP Soldering and Rework Cartridges

Compatible with: MFR-1110, MFR-1161, MFR-2211, MFR-2241 Systems and MFR-H1-SC2 hand-piece

<b>SxP SOLDERING &amp; REWORK CARTRIDGES</b>			
<b>CONICAL</b>		<b>SFP-CN04</b> <b>STP-CN04</b> <b>SCP-CN04</b>	Conical 0.4mm x 8.6mm (.016" x .34")
		<b>SFP-CNB04</b> <b>STP-CNB04</b> <b>SCP-CNB04</b>	Conical Bent 0.4mm x 15.21mm (.016" x .6")
		<b>SFP-CNL04</b> <b>STP-CNL04</b> <b>SCP-CNL04</b>	Conical Long Reach 0.4mm x 14.9mm (.016" x .59")
		<b>SFP-CN05</b> <b>STP-CN05</b> <b>SCP-CN05</b>	Conical 0.5mm x 4.95mm (.02" x .20")
		<b>SFP-CNB05</b> <b>STP-CNB05</b> <b>SCP-CNB05</b>	Conical Bent Long Reach 0.5mm x 14.7mm (.02" x .58")
		<b>SFP-CNL06</b> <b>SCP-CNL06</b>	Conical Long Reach 0.6mm x 14.9mm (.023" x .59")
<b>BEVEL</b>		<b>SFP-BLV10</b> <b>STP-BLV10</b> <b>SCP-BLV10</b>	Bevel 60° 1.0mm x 14.22mm (.04" x .56")

F = FR4 / Fiber Glass, for most standard applications    T = Temperature Sensitive    C = Ceramic for high thermal demand applications



<b>SxP SOLDERING &amp; REWORK CARTRIDGES</b>		Compatible with: MFR-1110, MFR-1161, MFR-2211, MFR-2241 Systems and MFR-H1-SC hand-piece	
<b>HOOF</b>		<b>SFP-DRH05</b> <b>STP-DRH05</b> <b>SCP-DRH05</b>	Hoof 0.5mm x 15.21mm (.02" x .6")
		<b>SFP-DRH610</b> <b>STP-DRH610</b> <b>SCP-DRH610</b>	Hoof 1.0mm x 11.6mm (.04" x .45")
		<b>SFP-DRH15</b> <b>STP-DRH15</b> <b>SCP-DRH15</b>	Hoof 15° 1.5mm x 16.5mm (.06" x .65")
		<b>SFP-DRH615</b> <b>STP-DRH615</b> <b>SCP-DRH615</b>	Hoof 60° 1.5mm x 11.6mm (.06" x .46")
		<b>SFP-DRH35</b> <b>STP-DRH35</b> <b>SCP-DRH35</b>	Hoof Long Reach 3.5mm x 17.78mm (.14" x .7")
<b>KNIFE</b>		<b>SFP-DRK50</b> <b>STP-DRK50</b> <b>SCP-DRK50</b>	Knife 5.0mm x 16mm (.20" x .63")

F = FR4 / Fiber Glass, for most standard applications T = Temperature Sensitive C = Ceramic for high thermal demand applications

**RxP REWORK CARTRIDGES**

Compatible with: MFR-1110, MFR-1161, MFR-2211, MFR-2241 Systems and MFR-H1-SC2 hand-piece  
All dimensions shown are in mm (inches)

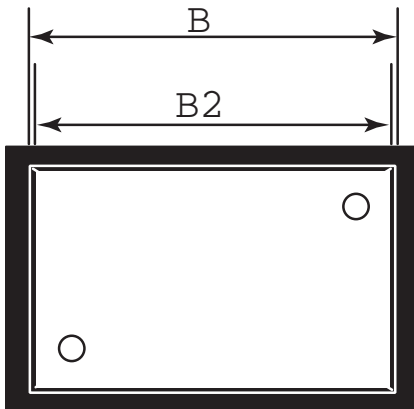
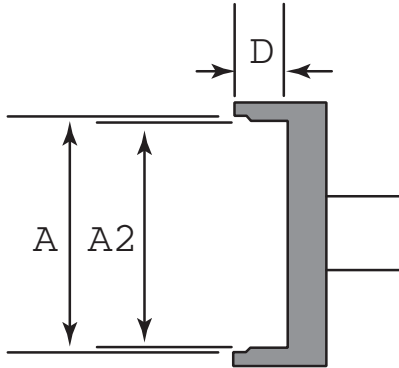
		<b>A</b>	<b>B</b>	<b>D</b>	<b>SMT TYPE</b>	
<b>BLADE</b>		RFP-BL1 RCP-BL1	10 (0.41)	-	-	-
		RFP-BL2 RCP-BL2	15.6 (0.62)	-	-	-
		RFP-BL3 RCP-BL2	22.1 (0.87)	-	-	-
<b>TUNNEL</b>		RFP-DL1 RCP-DL1	5.18 (0.204)	4.32 (0.17)	3.22 (0.127)	Tunnel SOIC-8
		RFP-DL2 RCP-DL2	5.18 (0.204)	4.32 (0.17)	2.29 (.09)	Tunnel SOIC-14-16
		RFP-DL3 RCP-DL3	6.86 (.270)	11.15 (0.44)	2.29 (.09)	Tunnel SOMC-16
<b>SLOT</b>		RFP-SL1 RCP-SL1	2.34 (.092)	1.37 (.054)	1.78 (.07)	0805 Chip Package
		RFP-SL2 RCP-SL2	3.48 (.137)	1.63 (.064)	1.78 (.07)	0805 Chip Package

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**RxP REWORK CARTRIDGES**

Compatible with: MFR-1110, MFR-1161, MFR-2211, MFR-2241 Systems and MFR-H1-SC2 hand-piece  
All dimensions shown are in mm (inches)

QUAD




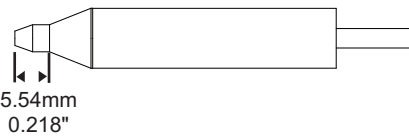
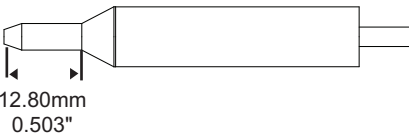
	A	A2	D	B	B2	SMT TYPE
RFP-QD4 RCP-QD4	12.70 (.500)	11.43 (.450)	3.81 (.150)	15.24 (.600)	13.97 (.550)	PLCC 32
RFP-QD6 RCP-QD6	17.78 (.700)	16.76 (.660)	3.81 (.150)	17.78 (.700)	16.76 (.660)	PLCC 44
RFP-QD7 RCP-QD7	25.27 (.995)	24.38 (.960)	5.59 (.220)	25.27 (.995)	24.38 (.960)	PLCC 68
RFP-QD10 RCP-QD10	20.32 (.800)	19.30 (.760)	3.81 (.150)	20.32 (.800)	19.30 (.760)	PLCC 52
RFP-QD15 RCP-QD15	13.34 (.525)	12.32 (.485)	2.79 (.110)	13.34 (.525)	12.32 (.485)	TQFP 80
RFP-QD19 RCP-QD19	16.13 (.635)	16.13 (.635)	3.30 (.130)	16.13 (.635)	16.13 (.635)	QFP 44
RFP-QD20 RCP-QD20	16.51 (.650)	16.51 (.650)	3.30 (.130)	22.48 (.885)	22.48 (.885)	QFP 100

F = FR4 / Fiber Glass, for most standard applications C = Ceramic for high thermal demand applications.



<b>TxP Tweezer Cartridges</b>		Compatible with: MFR-1140, MFR-2240, MFR2241 Systems and MFR-H4-TW hand-piece	
<b>BLADE</b>		<p>TFP-BLP1 TTP-BLP1 TCP-BLP1</p>	<p>1.0mm x 14mm (.04" x .55")</p>
		<p>TFP-BLP2 TTP-BLP2 TCP-BLP2</p>	<p>2.0mm x 14mm (.08" x .55")</p>
		<p>TFP-CNP1 TTP-CNP1 TCP-CNP1</p>	<p>Conical 0.4mm x 19.1mm (.015" x .75")</p>
<b>HEAVY DUTY</b>			<b>A</b>
		<p>TFP-BLH40 TTP-BLH40 TCP-BLH40</p>	<p>6.35mm (.25")</p>
		<p>TFP-BLH50 TTP-BLH50 TCP-BLH50</p>	<p>16mm (.62")</p>
		<p>TFP-BLH60 TTP-BLH60 TCP-BLH60</p>	<p>20.5mm (.81")</p>
		<p>TFP-BLH70 TTP-BLH70 TCP-BLH70</p>	<p>28mm (1.1")</p>

F = FR4 / Fiber Glass, for most standard applications T = Temperature Sensitive C = Ceramic for high thermal demand applications.

<b>DxP DESOLDERING TIPS</b>		Compatible with: MFR-1350, MFR-1351, MFR-DSX, MFR-DSI, MFR-SDX, MFR-SDI Systems and MFR-H5-DS, MFR-HDS hand-piece. All dimensions shown are in mm (inches)		
		<b>A</b>	<b>B</b>	<b>TYPE</b>
	DFP-CN2 DCP-CN2	0.67 (.026)	1.80 (.070)	Standard
	DFP-CN3 DCP-CN3	0.79 (.031)	2.05 (.080)	Standard
	DFP-CN4 DCP-CN4	1.05 (.041)	2.30 (.090)	Standard
 <p>5.54mm 0.218"</p> <p><b>Standard</b></p>	DFP-CN5 DCP-CN5	1.31 (.052)	2.65 (.104)	Standard
	DFP-CN6 DCP-CN6	1.55 (.061)	2.85 (.112)	Standard
	DFP-CN7 DCP-CN7	2.44 (.096)	3.65 (.143)	Standard
 <p>12.80mm 0.503"</p> <p><b>Long Reach</b></p>	DFP-CNL3 DCP-CNL3	0.79 (.031)	2.05 (.080)	Long Reach
	DFP-CNL4 DCP-CNL4	1.05 (.041)	2.30 (.090)	Long Reach
	DFP-CNL5 DCP-CNL5	1.31 (.052)	2.65 (.104)	Long Reach

F = FR4 / Fiber Glass, for most standard applications C = Ceramic for high thermal demand applications.

# What is Metcal Smartheat® Technology?

OK International is the founder of SmartHeat® Soldering Technology. SmartHeat® senses the exact thermal requirement for each solder joint and responds by delivering the precise amount of thermal energy required to create a reliable connection.

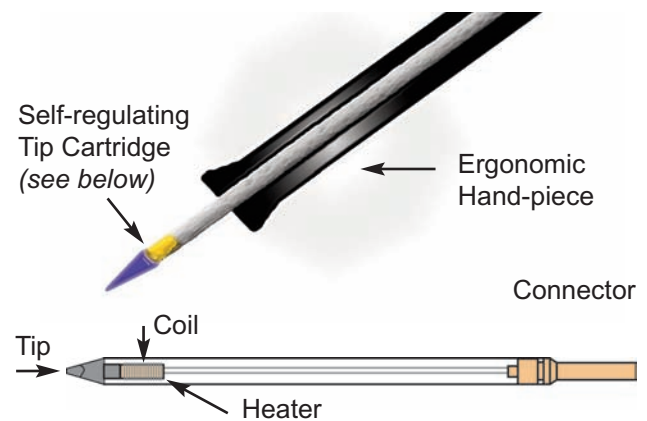
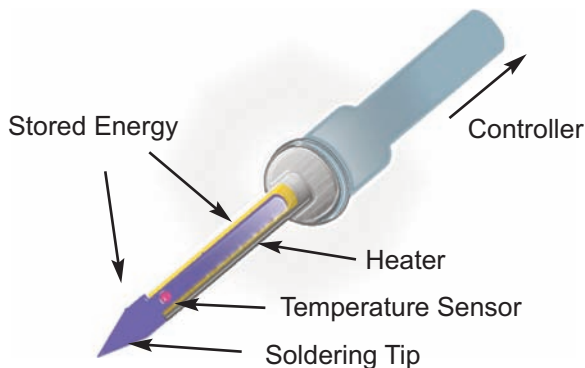
The result is a high degree of control without resorting to higher tip idle temperatures required by conventional heater process technologies. Consequently, the risk of component and board damage is minimized. This is especially important with the greater thermal demands required by lead-free applications.

## Conventional Soldering Technology = Fixed Power / Variable Temperature

- ▶ Conventional soldering irons are fixed power systems that store energy in the tip, they don't adjust power in response to thermal demand.
- ▶ The temperature needs to be manually set and adjusted to vary the amount of thermal energy applied, the operator can vary the process.
- ▶ The tip cools as it heats the joint and the heater reheats the tip, often overshooting the set temperature.
- ▶ Conventional soldering systems require calibration.
- ▶ The actual tip temperature can vary widely from set point, slowing the process and causing thermal damage and poor solder joint quality.

## SmartHeat® Soldering Technology = Variable Power / Fixed Temperature

- ▶ SmartHeat® tips and cartridges sense the load and instantly deliver the right amount of heat directly to the solder joint.
- ▶ The required solder joint temperature drives the heating process, as opposed to the idle tip temperature setting (as in a conventional iron).
- ▶ Operates at lower safer temperatures. Power is delivered in proportion to the load. SmartHeat® technology eliminates overshoot.
- ▶ No calibration required - saves money and eliminates system down-time.



# okinternational

Company Locations [www.okinternational.com/location](http://www.okinternational.com/location)

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