

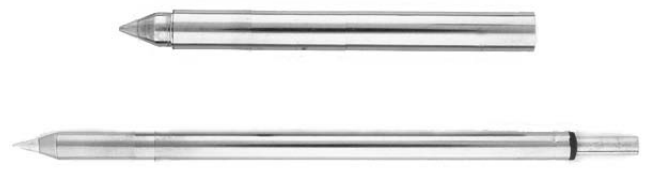


**METCAL**

**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**

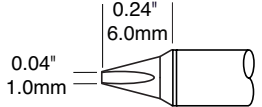
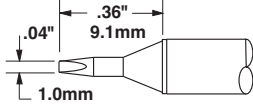
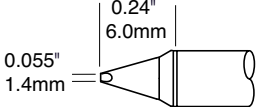
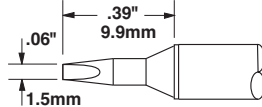
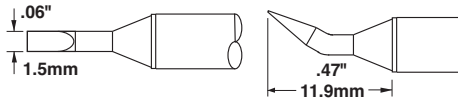
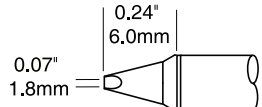
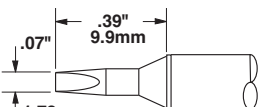
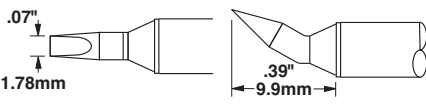
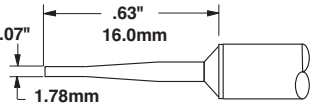
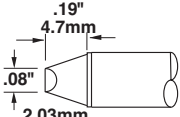
► See page 33 for full explanation



CHISEL

**STTC SOLDERING CARTRIDGES**

Compatible with: MX-500 and MX-5000 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



CHISEL

STTC SOLDERING CARTRIDGES		Compatible with: MX-500 and MX-5000 Systems / MX-RM3E and MX-H1-AV hand-pieces	
	<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>	
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">CONICAL</p>	<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 and MX-5000 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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8 = 800 Series for Ceramic and high thermal demand applications.



**STTC SOLDERING CARTRIDGES**

Compatible with: MX-500 and MX-5000 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>

5 = 500 Series and 0 = 600 Series for temperature sensitive applications - 1 = 700 Series for most standard applications.  
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**UFTC ULTRAFINE  
SOLDERING CARTRIDGES**

Compatible with: MX-5000 Systems and MX-H2-UF hand-piece

CONICAL

	<p>UFTC-7CN01</p>	<p>Conical 0.13mm x 5.1mm (.005" x .20")</p>
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	<p>UFTC-7CN02</p>	<p>Conical 0.2mm x 5.1mm (.01" x .20")</p>
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	<p>UFTC-7CNB02</p>	<p>Conical Bent 0.2mm x 5.5mm (0.01" x .22")</p>
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	<p>UFTC-7CN04</p>	<p>Conical 0.4mm x 5.1mm (.02" x 0.20")</p>
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	<p>UFTC-7CNL04</p>	<p>Conical Long 0.4mm x 8mm (.02" x .31")</p>
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	<p>UFTC-7CNB04</p>	<p>Conical Bent 0.4mm x 5.5mm (.02" x .22")</p>
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HOOF

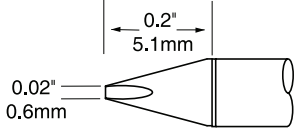
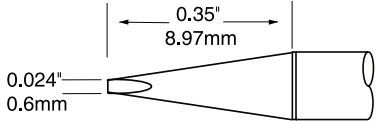
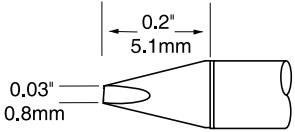
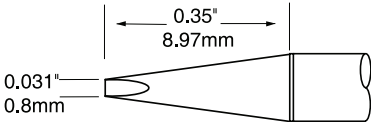
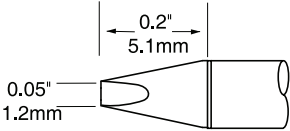
	<p>UFTC-7DRH408</p>	<p>Hoof Micro 0.8mm x 5.1mm (.03" x .20")</p>
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	<p>UFTC-7DHR412</p>	<p>Hoof Micro 1.2mm x 5.1mm (.048" x .20")</p>
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7 = 700 Series for most standard applications



CHISEL

<b>UFTC ULTRAFINE SOLDERING CARTRIDGES</b>		Compatible with: MX-5000 Systems and MX-H2-UF hand-piece
	<b>UFTC-7CH06</b>	Chisel 0.6mm x 5.1mm (.024" x .20")
	<b>UFTC-7CHL06</b>	Chisel Long 0.6mm x 9mm (.024" x .35")
	<b>UFTC-7CH08</b>	Chisel 0.8mm x 5.1mm (.03" x .2")
	<b>UFTC-7CHL08</b>	Chisel Long 0.8mm x 9mm (.03" x .35")
	<b>UFTC-7CH12</b>	Chisel 1.2mm x 5.1mm (.05" x .20")

7 = 700 Series for most standard applications



Compatible with: MX-500 and MX-5000 Systems, MX-RM3E and MX-H1-AV hand-pieces.  
All dimensions shown are in mm (inches)

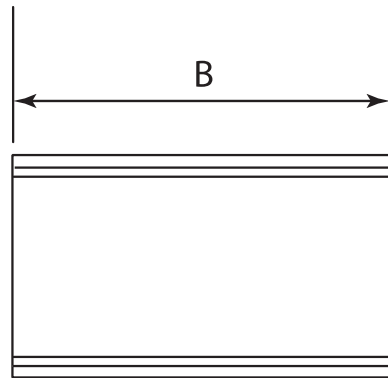
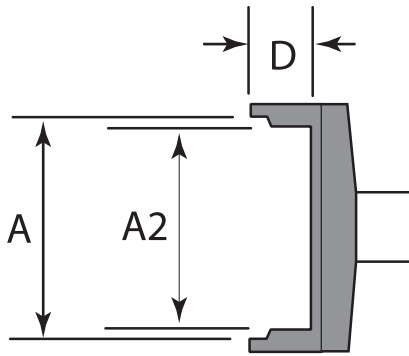
SMTC REWORK CARTRIDGES		A	D	B	SMT TYPE
<div style="writing-mode: vertical-rl; transform: rotate(180deg); position: absolute; left: -40px; top: 50px;">SLOT</div>	SMTC-505 SMTC-005 SMTC-105	1.7 (.068)	1.27 (.05)	2.5 (.10)	SOT-32
	SMTC-596 SMTC-096 SMTC-196	1.78 (.070)	1.02 (.040)	1.02 (.040)	Chip 0402, 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

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

**SMTC REWORK CARTRIDGES**

Compatible with: MX-500 and MX-5000 Systems, MX-RM3E and MX-H1-AV hand-pieces  
All dimensions shown are in mm (inches)

TUNNEL



SMTC Rework Cartridges

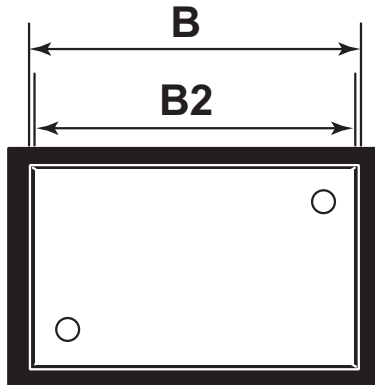
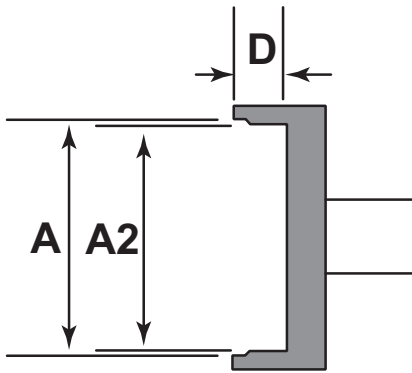
	A	A2	D	B	SMT TYPE
SMTC-004 SMTC-104	5.08 (.20)	5.08 (.20)	2.3 (.90)	4.32 (.17)	SOIC-8
SMTC-006 SMTC-106	5.08 (.20)	5.08 (.20)	2.3 (.90)	10.16 (.40)	SOIC-14,16
SMTC-0142 SMTC-1142	5.18 (.204)	5.18 (.204)	2.54 (.100)	8.89 (.350)	SOIC-14
SMTC-047 SMTC-147	8.51 (.335)	8.51 (.335)	5.08 (.200)	6.35 (.250)	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 and MX-5000 Systems, MX-RM3E and MX-H1-AV hand-pieces  
All dimensions shown are in mm (inches)

QUAD



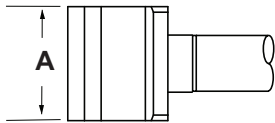
	<b>A</b>	<b>A2</b>	<b>D</b>	<b>B</b>	<b>B2</b>	<b>SMT TYPE</b>
SMTC-0121 SMTC-1121	8.38 (.330)	8.38 (.330)	2.54 (.100)	8.38 (.330)	8.38 (.330)	SQFP 48 (EIJA)
SMTC-0112 SMTC-1112	10.16 (.400)	9.14 (.360)	3.80 (.150)	10.16 (.400)	9.14 (.360)	PLCC 20
SMTC-0120 SMTC-1120	11.18 (.440)	11.18 (.440)	2.54 (.100)	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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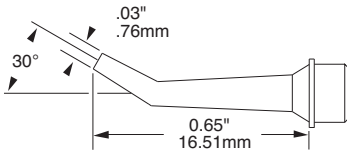
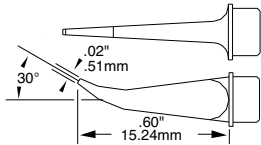
**SMTC REWORK CARTRIDGES**

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

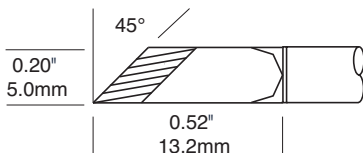
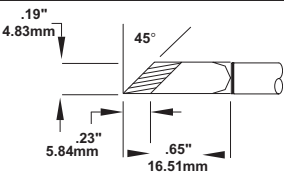
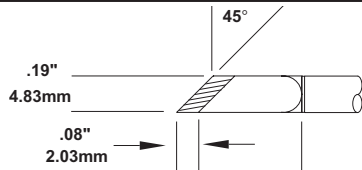
BLADE



HOOK & CONICAL



KNIFE



SMTC Rework Cartridges

		<b>A</b>	<b>BLADE TYPE</b>
BLADE	SMTC-064 SMTC-164	5mm (.20")	Short
	SMTC-560 SMTC-060 SMTC-160 SMTC-860	10mm (.40")	Long
	SMTC-561 SMTC-061 SMTC-161 SMTC-861	15.75mm (.62")	Long
	SMTC-562 SMTC-062 SMTC-162 SMTC-862	22mm (.86")	Long
HOOK & CONICAL	SMTC-5172 SMTC-0172 SMTC-1172 SMTC-8172		Hook Long 30° 0.5mm x 15.24mm (.02"x.06")
	SMTC-5171 SMTC-0171 SMTC-1171 SMTC-8171		Conical Bent 30° 0.76mm x 16.51mm (.03"x .65")
KNIFE	SMTC-5161 SMTC-0161 SMTC-1161		Knife 45° - Increased 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° 5.0mm x 13.2mm (.20" x .52")

HOOF

**SMTC REWORK CARTRIDGES**

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

	<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>
	<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.

SPECIALITY

SMTC Rework Cartridges

Compatible with: MX-5000 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>
		<p>PTTC-605 PTTC-705 PTTC-805</p>	<p>Blade Bent 22°, thickness 0.7mm (.28") 16mm x 12.7mm (.63" x .50")</p>
<b>PTTC Tweezer Cartridges</b>		<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>

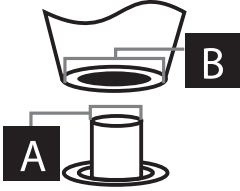

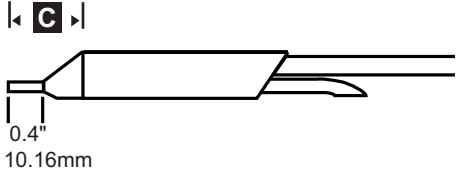
6 = 600 Series for temperature sensitive applications. 1 = 700 Series for most standard applications.  
8 = 800 Series for Ceramic and high thermal demand applications.

<p><b>TATC TALON CARTRIDGES</b></p>	<p>Compatible with: MX-500 Systems and MX-Talon hand-piece</p>	
	<p>TATC-609</p>	<p>Fine Point, thickness 0.35mm (.013") 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>

6 = 600 Series for temperature sensitive applications.

**STDC DESOLDER CARTRIDGES**

Compatible with: MX-500 and MX-5000 Systems, MX-DS1 Desoldering hand-piece  
All dimensions shown are in mm (inches)

	<b>A</b>	<b>B</b>	<b>C</b>	<b>TYPE</b>	
   <p>Standard</p>   <p>Long Reach</p>	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-707 STDC-807	2.41 (.09)	3.18 (.12)	9.14 (.36)	Standard
	STDC-703L STDC-803L	0.76 (.03)	1.68 (.06)	21.33 (.84)	Long Reach
	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.





Compatible with: Metcal SP200, OKi MFR-1160 Systems, Metcal SP-HC12 and OKi MFR-H6-SSC hand-pieces

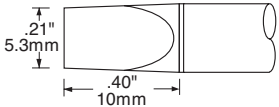
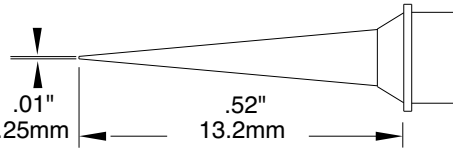
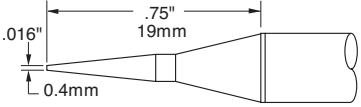
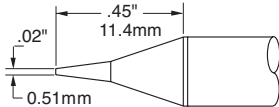
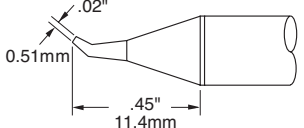
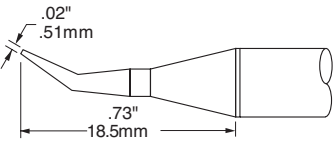
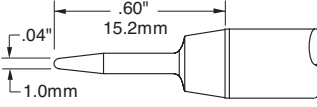
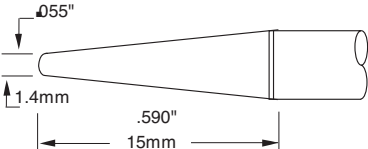
CHISEL

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>



Compatible with: Metcal SP200, OKi MFR-1160 Systems, Metcal SP-HC12 and OKi MFR-H6-SSC hand-pieces

CONICAL

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

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



Compatible with: Metcal SP200, OKi MFR-1160 Systems, Metcal SP-HC12 and OKi MFR-H6-SSC hand-pieces

**SSC SOLDERING CARTRIDGES**

<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 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.

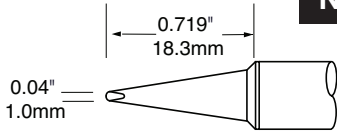


Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems, PS-HC3 and MFR-H2-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies

CHISEL

**SxV SOLDERING TIPS**

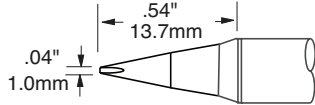
**NEW**



SFV-CH10A  
STV-CH10A  
SCV-CH10A

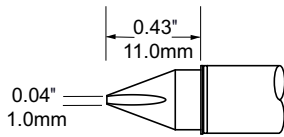
Chisel  
*Optimised for thermal performance*  
1.0mm x 18.3mm (.04" x .719")

**OLD STYLE**



SFV-CH10AR  
STV-CH10AR  
SCV-CH10AR

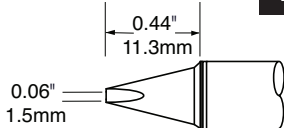
Chisel  
*Original Easy Access Geometry*  
1.0mm x 13.7mm (.04" x .54")



SFV-CH10  
STV-CH10  
SCV-CH10

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

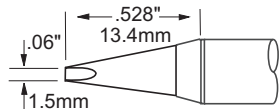
**NEW**



SFV-CH15A  
STV-CH15A  
SCV-CH15A

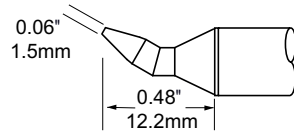
Chisel  
*Optimised for thermal performance*  
1.5mm x 11.3mm (.06" x .44")

**OLD STYLE**



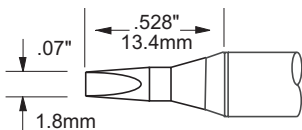
SFV-CH15AR  
STV-CH15AR  
SCV-CH15AR

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



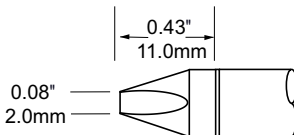
SFV-CHB15  
STV-CHB15  
SCV-CHB15

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



SFV-CH18AR  
STV-CH18AR  
SCV-CH18AR

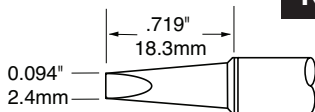
Chisel  
*Original Easy Access Geometry*  
1.8mm x 13.4mm (.07" x .528")



SFV-CH20  
STV-CH20  
SCV-CH20

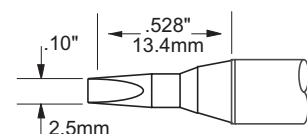
Chisel  
2.0mm x 11mm (.08" x .43")

**NEW**



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

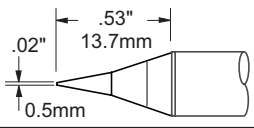
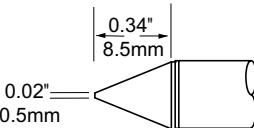
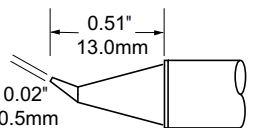
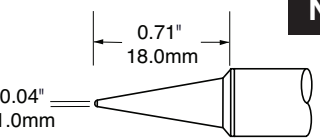
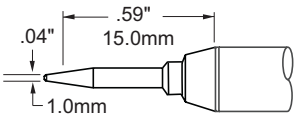
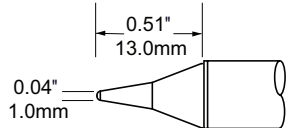
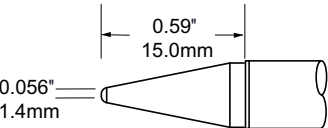
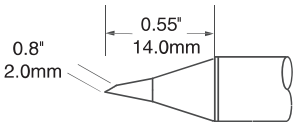
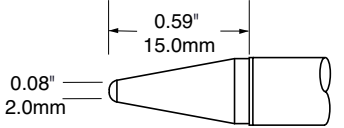
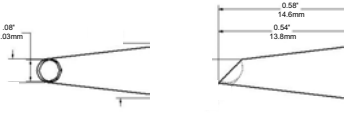


Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems, PS-HC3 and MFR-H2-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies

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



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>CONICAL</b>	<b>SxV SOLDERING TIPS</b>		
	<b>OLD STYLE</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")
	<b>NEW</b>		
		SFV-CNL10A STV-CNL10A SCV-CNL10A	Conical Long Reach <i>Optimised for thermal performance</i> 1.0mm x 18mm (.04" x .71")
	<b>OLD STYLE</b>		
		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-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies

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



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

KNIFE

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

<b>CxV BLADE TIPS</b>		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	
	CFV-BL100 CTV-BL100 CCV-BL100	<b>A</b>	
	CFV-BL250 CTV-BL250 CCV-BL250	10mm (.40")	
	CFV-BL350 CTV-BL350 CCV-BL350	25mm (1")	
	CFV-BL400 CTV-BL400 CCV-BL400	35mm (1.4")	
	CFV-BL500 CTV-BL500 CCV-BL500	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.

CHISEL

<b>PHT SOLDERING TIPS</b>		Compatible with: PS-800, PS-800E and PS-900 Systems and PS-CA1 Coil Assembly	
CHISEL		<p>PHT-750315 PHT-650315</p>	<p>Chisel Fine 30°</p> <p>1.0mm x 10mm (.04" x .394")</p>
		<p>PHT-750325 PHT-650325</p>	<p>Chisel 60°</p> <p>1.5mm x 10mm (.06" x .394")</p>
		<p>PHT-750326 PHT-650326</p>	<p>Chisel Fine Bent 30°</p> <p>1.5mm x 12mm (.06" x .472")</p>
		<p>PHT-750335 PHT-650335</p>	<p>Chisel 30°</p> <p>1.78mm x 10mm (.07" x .394")</p>

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

SxV, CxV and PHT Soldering Tips

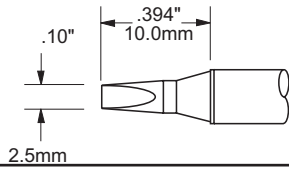




**PHT SOLDERING TIPS**

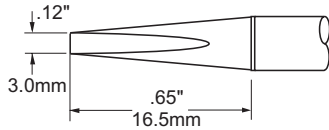
Compatible with: PS-800, PS-800E and PS-900 Systems and PS-CA1 Coil Assembly

CHISEL



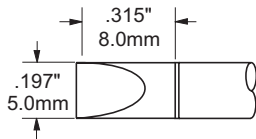
PHT-751355  
PHT-651355

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



PHT-751367  
PHT-651367

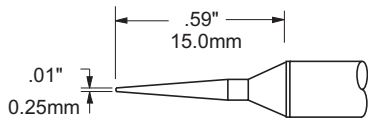
Chisel 30° Long Reach  
3.0mm x 16.5mm (.12" x .65")



PHT-751384  
PHT-651384

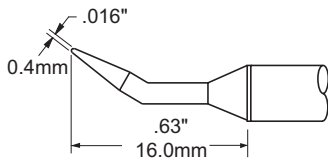
Chisel 30°  
3.0mm x 8mm (.12" x .315")

CONICAL



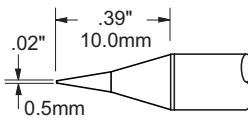
PHT-752017  
PHT-652017

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



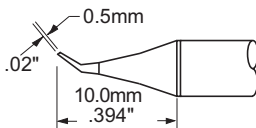
PHT-752327  
PHT-652327

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



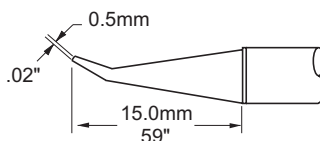
PHT-752035  
PHT-652035

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



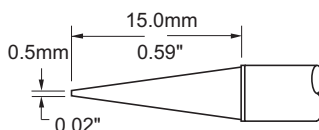
PHT-752335  
PHT-652335

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



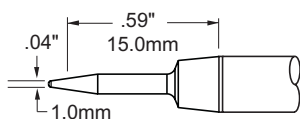
PHT-752337  
PHT-652337

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

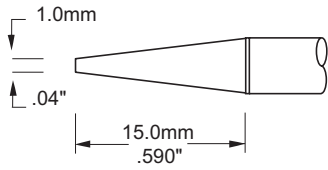
Conical Fine  
Long Reach  
1.0mm x 15mm (.04" x .59")



**PHT SOLDERING TIPS**

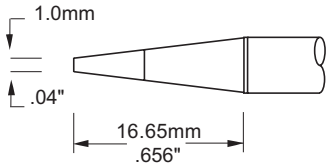
Compatible with: PS-800, PS-800E and PS-900 Systems and PS-CA1 Coil Assembly

CONICAL



PHT-753067  
PHT-653067

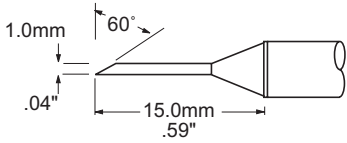
Conical Long Reach  
1.0mm x 15mm (.04" x .59")



PHT-753077  
PHT-653077

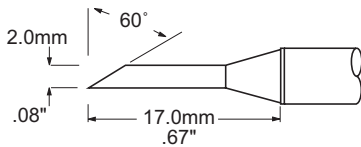
Conical Long Reach  
1.0mm x 16.6mm (.04" x .656")

HOOF



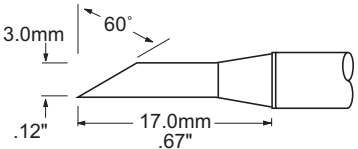
PHT-754627  
PHT-654627

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



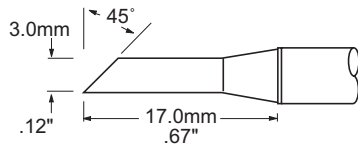
PHT-754667  
PHT-654667

Hoof 60°  
2.0mm x 17mm (.08" x .67")



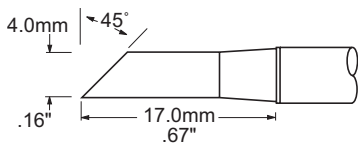
PHT-754687  
PHT-654687

Hoof 60°  
3.0mm x 17mm (.12" x .67")



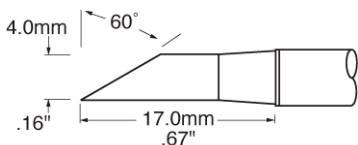
PHT-754487F  
PHT-654487F

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



PHT-654497

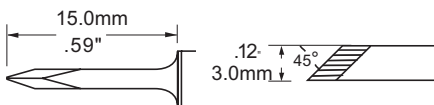
Hoof 45°  
4.00mm x 17mm (.16" x .67")



PHT-654697

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

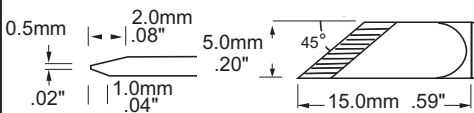
KNIFE



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

<b>SxP SOLDERING &amp; REWORK CARTRIDGES</b>		Compatible with: MFR-1110, MFR-1161, MFR-2211, MFR-2241 Systems and MFR-H1-SC 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 SCP-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 SCP-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



CONICAL

<b>SxP SOLDERING &amp; REWORK CARTRIDGES</b>		Compatible with: MFR-1110, MFR-1161, MFR-2211, MFR-2241 Systems and MFR-H1-SC hand-piece	
	<p>SFP-CN04 STP-CN04 SCP-CN04</p>	<p>Conical 0.4mm x 8.6mm (.016" x .34")</p>	
	<p>SFP-CNB04 STP-CNB04 SCP-CNB04</p>	<p>Conical Bent 0.4mm x 15.21mm (.016" x .6")</p>	
	<p>SFP-CNL04 STP-CNL04 SCP-CNL04</p>	<p>Conical Long Reach 0.4mm x 14.9mm (.016" x .59")</p>	
	<p>SFP-CN05 STP-CN05 SCP-CN05</p>	<p>Conical 0.5mm x 4.95mm (.02" x .20")</p>	
	<p>SFP-CNB05 STP-CNB05 SCP-CNB05</p>	<p>Conical Bent Long Reach 0.5mm x 14.7mm (.02" x .58")</p>	
	<p>SFP-CNL06 SCP-CNL06</p>	<p>Conical Long Reach 0.6mm x 14.9mm (.023" x .59")</p>	
	<p>SFP-BLV10 STP-BLV10 SCP-BLV10</p>	<p>Bevel 60° 1.0mm x 14.22mm (.04" x .56")</p>	

BEVEL

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



**SxP SOLDERING & REWORK  
CARTRIDGES**

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

<b>HOOF</b>		<p>SFP-DRH05 STP-DRH05 SCP-DRH05</p>	<p>Hoof 0.5mm x 15.21mm (.02" x .6")</p>
		<p>SFP-DRH610 STP-DRH610 SCP-DRH610</p>	<p>Hoof 1.0mm x 11.6mm (.04" x .45")</p>
		<p>SFP-DRH15 STP-DRH15 SCP-DRH15</p>	<p>Hoof 15° 1.5mm x 16.5mm (.06" x .65")</p>
		<p>SFP-DRH615 STP-DRH615 SCP-DRH615</p>	<p>Hoof 60° 1.5mm x 11.6mm (.06" x .46")</p>
		<p>SFP-DRH35 STP-DRH35 SCP-DRH35</p>	<p>Hoof Long Reach 3.5mm x 17.78mm (.14" x .7")</p>
<b>KNIFE</b>		<p>SFP-DRK50 STP-DRK50 SCP-DRK50</p>	<p>Knife 5.0mm x 16mm (.20" x .63")</p>

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**RxP REWORK CARTRIDGES**

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

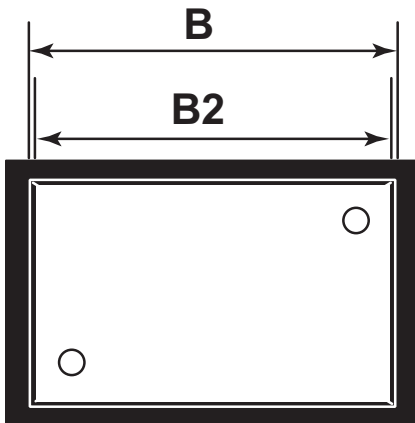
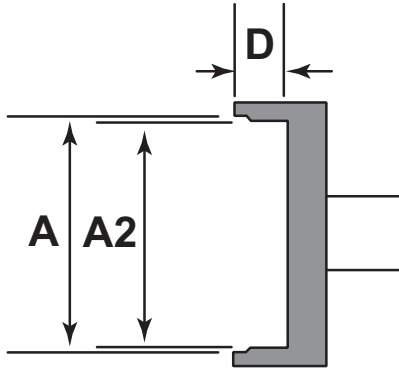
		<b>A</b>	<b>B</b>	<b>D</b>	<b>SMT TYPE</b>	
<b>BLADE</b>		RFP-BL1 RCP-BL1	10 (0.41)	-	-	-
		RFP-BL2 RCP-BL2	15.6 (0.62)	-	-	-
		RFP-BL3 RCP-BL2	22.1 (0.87)	-	-	-
<b>TUNNEL</b>		RFP-DL1 RCP-DL1	5.18 (0.204)	4.32 (0.17)	3.22 (0.127)	Tunnel SOIC-8
		RFP-DL2 RCP-DL2	5.18 (0.204)	4.32 (0.17)	2.29 (.09)	Tunnel 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-SC hand-piece  
All dimensions shown are in mm (inches)

QUAD



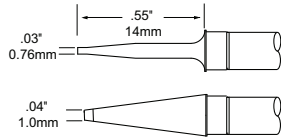
	A	A2	D	B	B2	SMT TYPE
RFP-QD4 RCP-QD4	12.70 (.500)	11.43 (.450)	3.81 (.150)	15.24 (.600)	13.97 (.550)	PLCC 32
RFP-QD6 RCP-QD6	17.78 (.700)	16.76 (.660)	3.81 (.150)	17.78 (.700)	16.76 (.660)	PLCC 44
RFP-QD7 RCP-QD7	25.27 (.995)	24.38 (.960)	5.59 (.220)	25.27 (.995)	24.38 (.960)	PLCC 68
RFP-QD10 RCP-QD10	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.

BLADE

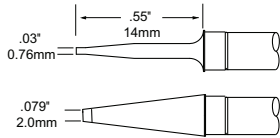
**TxP TWEEZER CARTRIDGES**

Compatible with: MFR-1140, MFR-2240, MFR2241 Systems and MFR-H4-TW hand-piece



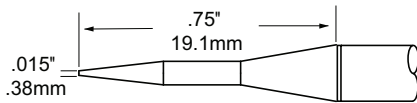
TFP-BLP1  
TTP-BLP1  
TCP-BLP1

1.0mm x 14mm (.04" x .55")



TFP-BLP2  
TTP-BLP2  
TCP-BLP2

2.0mm x 14mm (.08" x .55")



TFP-CNP1  
TTP-CNP1  
TCP-CNP1

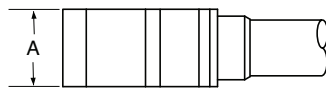
Conical  
0.4mm x 19.1mm (.015" x .75")

HEAVY DUTY

**A**

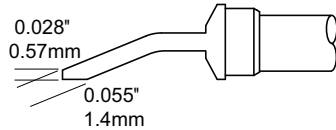
TFP-BLH40  
TTP-BLH40  
TCP-BLH40

6.35mm  
(.25")



TFP-BLH50  
TTP-BLH50  
TCP-BLH50

16mm  
(.62")



TFP-BLH60  
TTP-BLH60  
TCP-BLH60


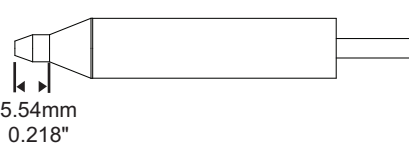
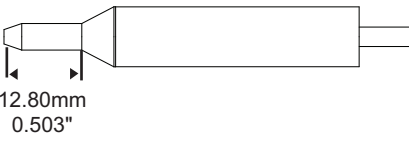
20.5mm  
(.81")

TFP-BLH70  
TTP-BLH70  
TCP-BLH70

28mm  
(1.1")

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-DSX, MFR-DSI, MFR-SDX, MFR-SDI Systems and MFR-HDS hand-piece All dimensions shown are in mm (inches)			
   <p><b>Standard</b></p>   <p><b>Long Reach</b></p>		<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
		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
		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 SmartHeat® Technology?

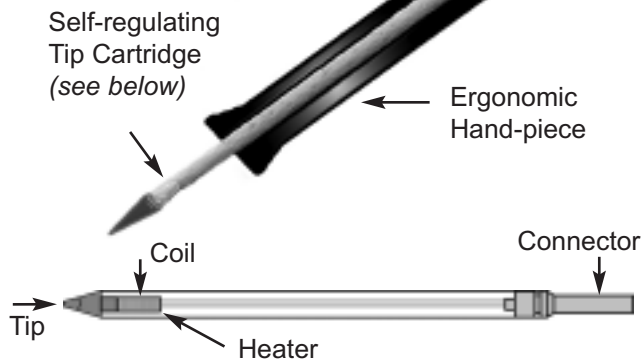
SmartHeat® Technology is unique in that it senses the specific thermal demand directly at the solder pad and delivers the precise quantity and flow of thermal energy during both flux activation and inter-metallic bonding phases without any adjustment and calibration. SmartHeat® is radically different and provides users the only fully safe and thermally effective soldering lead free solution.

Conventional technology senses and responds to the tip temperature and not the thermal energy demand of the solder joint and users are required to calibrate their systems regularly. In today's lead free environment, the conventional technology is thermally inefficient to produce good quality solder joints consistently and leaves process control in the hands of the individual operators.

Good quality joints are a result of precise quantity and flow of thermal energy and not tip temperature. Fixed temperature cartridges and tips offer users a fully safe and thermally effective solution to their lead free soldering needs as well as complete process control. Furthermore, fixed temperature cartridges and tips can offer better tip life because they can operate at a lower temperature than conventional technology. Please speak to our representatives on proper tip selection for your soldering applications.

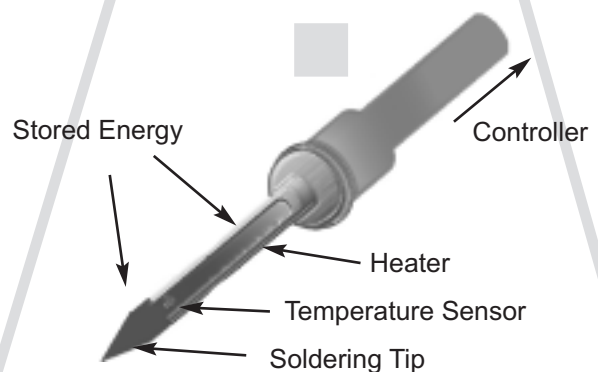
### SmartHeat® Soldering Technology = Variable Power / Fixed Temperature

- ▶ 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.





### 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.



## Maximum Tip Temperature for Smartheat® Soldering Cartridges and Tips

Serie	Part Number	Application	Max tip temperature
			
500	STTC-5xx, SMTC-5xxx, SSC-5xx	Temperature Sensitive	575°F/302°C
600	STTC-0xx, PTTC-6xx, UFTC-6xxxx, SMTC-0xxx, TATC-6xx, SSC-6xx	Temperature Sensitive	675°F/357°C
700	STTC-1xx, PTTC-7xx, UFTC-7xxxx, SMTC-1xxx, STDC-1xx, STDC-7xx, SSC-7xx	FR4/Glass Fiber	775°F/412°C
			
650	PHT-65xxxx	Temperature Sensitive	680°F/360°C
750	PHT-75xxxx	FR4/Glass Fiber	780°F/416°C
T	STP-xxxx, STV-xxxx, TTP-xxx	Temperature Sensitive	690°F/365°C
F	SFP-xxxx, SFV-xxxx, RFP-xxx, TFP-xxx, DFP-xxx	FR4/Glass Fiber	790°F/421°C
C	SCP-xxxx, SCV-xxxx, RCP-xxx, TCP-xxx, DCP-xxx	Ceramic	860°F/460°C

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## Company Locations

*OK International - USA*  
12151 Monarch Street  
Garden Grove, CA 92841  
Tel: 1-714-799-9910  
Fax: 1-714-799-9533  
[northamerica@okinternational.com](mailto:northamerica@okinternational.com)

*OK International Ltd. - UK*  
Eagle Close, Chandlers Ford  
Hampshire, SO53 4NF  
Tel: +44 (0) 23 8048 9100  
Fax: +44 (0) 23 8048 9109  
[europe@okinternational.com](mailto:europe@okinternational.com)

*OK International - China*  
4 Floor West, 1st Building,  
Tingwe Industrial Park,  
6 Liufang Road  
Baocheng 67 th Area, Baofan District  
Shenzhen, Guangdong, 518101, PRC  
TEL: +86-755-2759-9247  
[china@okinternational.com](mailto:china@okinternational.com)

*Sales Support*  
Germany  
Tel: +49 (0)6101 522 7470  
Fax: +49 (0)6101 522 7479  
[d-info@okinternational.com](mailto:d-info@okinternational.com)

*France*  
Tel: +33 (0)1 76 71 04 03  
Fax: +33 (0)1 70 71 21 50  
[fr-info@okinternational.com](mailto:fr-info@okinternational.com)

*Japan*  
Sales: +81-198-22-7928  
Service: +81-03-4520-9629  
Fax: +81-03-6745-1439

*India*  
Tel: +91-9821852474  
[drane@okinternational.com](mailto:drane@okinternational.com)

*Singapore*  
Tel: +65 9798 4443  
[ryip@okinternational.com](mailto:ryip@okinternational.com)

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