

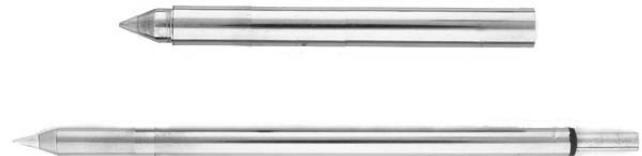
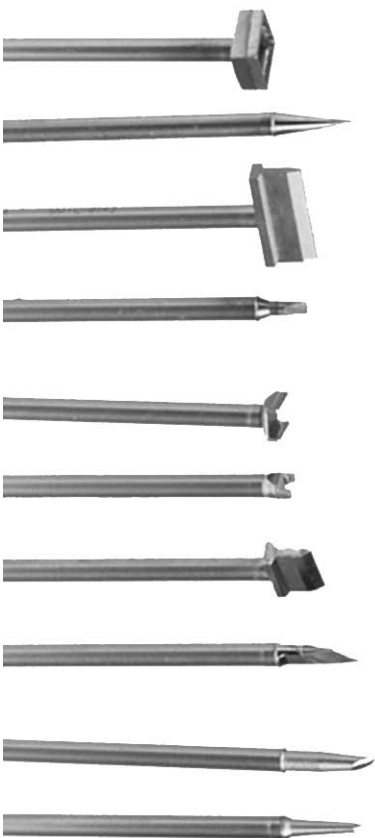


METCAL

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

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

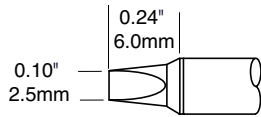
5 = 500 Series and 0 = 600 Series for temperature sensitive applications - 1 = 700 Series for most standard applications.
 8 = 800 Series for Ceramic and high thermal demand applications.



CHISEL

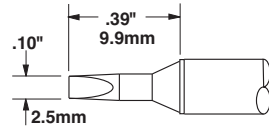
STTC SOLDERING CARTRIDGES

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



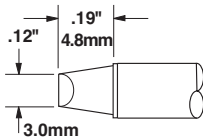
STTC-136P
STTC-836P

Chisel 30°
P = Optimised geometry for best thermal performance
2.5mm x 6.0mm (.10" x .24")



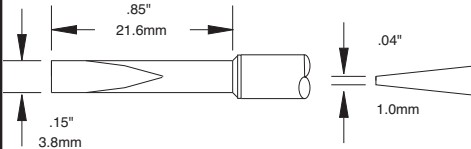
STTC-536
STTC-036
STTC-136
STTC-836

Chisel 30°
2.5mm x 9.9mm (.10" x .39")



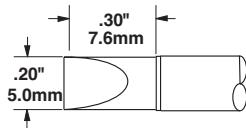
STTC-513
STTC-013
STTC-113
STTC-813

Chisel 90°
3.0mm x 4.8mm (.12" x .19")



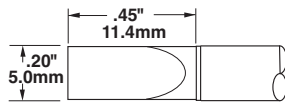
STTC-520
STTC-020
STTC-120
STTC-820

Long Reach Chisel 12°
3.8mm x 21.6mm (.15" x .85")



STTC-517
STTC-017
STTC-117
STTC-817

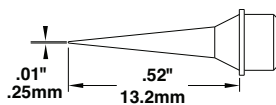
Large Chisel
5.0mm x 7.6mm (.20" x .30")



STTC-565
STTC-065
STTC-165
STTC-865

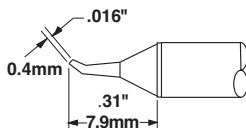
Large Chisel
5.0mm x 11.4mm (.20" x .45")

CONICAL



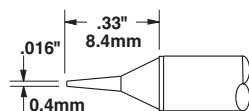
STTC-590
STTC-090
STTC-190
STTC-890

Fine and Long Reach Conical
0.25mm x 13.2mm (.01" x .52")



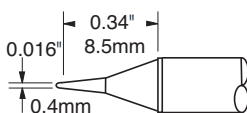
STTC-526
STTC-026
STTC-126
STTC-826

Conical Sharp Bent 30°
0.4mm x 7.9mm (.016" x .31")



STTC-522
STTC-022
STTC-122
STTC-822

Conical Sharp
0.4mm x 8.4mm (.016" x .33")



STTC-145P
STTC-845P

Conical Sharp
P = Optimised geometry for best thermal performance
0.4mm x 8.5mm (.016" x .34")

STTC Soldering Cartridges

**STTC SOLDERING CARTRIDGES**

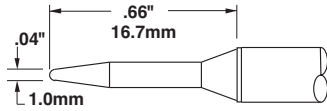
Compatible with: MX-500 and MX-5000 Systems / MX-RM3E and MX-H1-AV hand-pieces

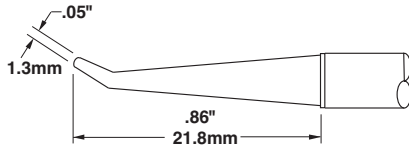
	STTC-506 STTC-006 STTC-106 STTC-806	Conical Sharp 0.4mm x 13.7mm (.016" x .54")
	STTC-545 STTC-045 STTC-145 STTC-845	Conical Sharp 0.4mm x 14.7mm (.016" x .58")
	STTC-540 STTC-040 STTC-140 STTC-840	Conical Sharp Bent 30° Long Reach 0.4mm x 16mm (.016" x .63")
	STTC-511 STTC-011 STTC-111	Conical Sharp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


STTC SOLDERING CARTRIDGES

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

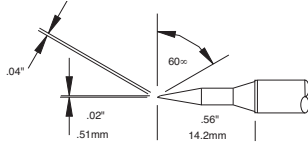
CONICAL

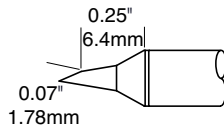

STTC-507
STTC-007
STTC-107

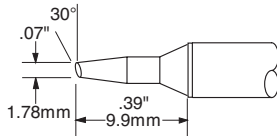
Conical
1.0mm x 16.7mm (.04" x .66")

STTC-541
STTC-041
STTC-141
STTC-841

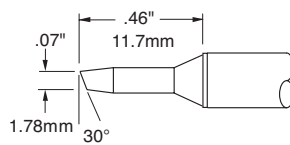
Conical Bent 30°
Long Reach
1.3 mm x 21.8mm (.05" x .86")

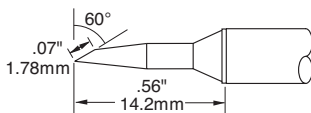
BEVEL


STTC-546
STTC-046
STTC-146
STTC-846

Long Reach Bevel 60°
1.00mm x 14.2mm (.04" x .56")

STTC-147P
STTC-847P

Bevel 60°
P = Optimised geometry for best thermal performance
1.78mm x 6.4mm (.07" x .25")

STTC-535
STTC-035
STTC-135

Bevel 30°
1.78mm x 9.9mm (.07" x .39")

STTC-505
STTC-005
STTC-105

Bevel 30°
1.78mm x 11.7mm (.07" x .46")

STTC-547
STTC-047
STTC-147
STTC-847

Long Reach Bevel 60°
1.78mm x 14.2mm (.07" x .56")

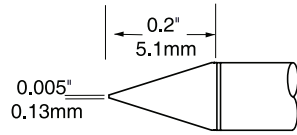
5 = 500 Series and 0 = 600 Series for temperature sensitive applications - 1 = 700 Series for most standard applications.
8 = 800 Series for Ceramic and high thermal demand applications.



CONICAL

**UFTC ULTRAFINE
SOLDERING CARTRIDGES**

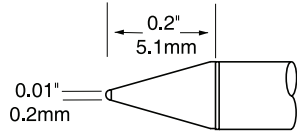
Compatible with: MX-5000 Systems and MX-H2-UF hand-piece



UFTC-7CN01

Conical

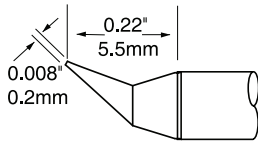
0.13mm x 5.1mm (.005" x .20")



UFTC-7CN02

Conical

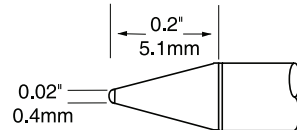
0.2mm x 5.1mm (.01" x .20")



UFTC-7CNB02

Conical Bent

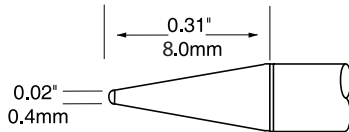
0.2mm x 5.5mm (0.01" x .22")



UFTC-7CN04

Conical

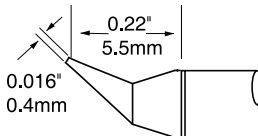
0.4mm x 5.1mm (.02" x 0.20")



UFTC-7CNL04

Conical Long

0.4mm x 8mm (.02" x .31")

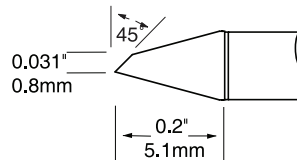


UFTC-7CNB04

Conical Bent

0.4mm x 5.5mm (.02" x .22")

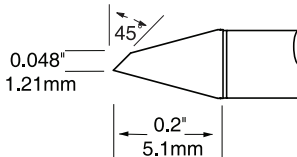
HOOF



UFTC-7DRH408

Hoof Micro

0.8mm x 5.1mm (.03" x .20")



UFTC-7DHR412

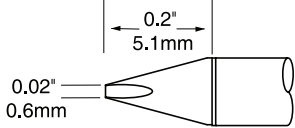
Hoof Micro

1.2mm x 5.1mm (.048" x .20")

7 = 700 Series for most standard applications



CHISEL

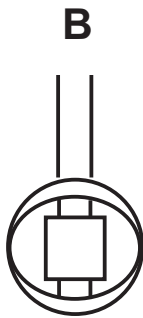
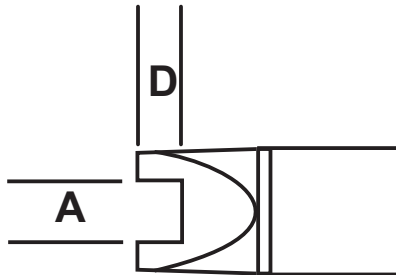
UFTC ULTRAFINE SOLDERING CARTRIDGES		Compatible with: MX-5000 Systems and MX-H2-UF hand-piece	
	UFTC-7CH06	Chisel 0.6mm x 5.1mm (.024" x .20")	
	UFTC-7CHL06	Chisel Long 0.6mm x 9mm (.024" x .35")	
	UFTC-7CH08	Chisel 0.8mm x 5.1mm (.03" x .2")	
	UFTC-7CHL08	Chisel Long 0.8mm x 9mm (.03" x .35")	
	UFTC-7CH12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

7 = 700 Series for most standard applications

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)

SLOT



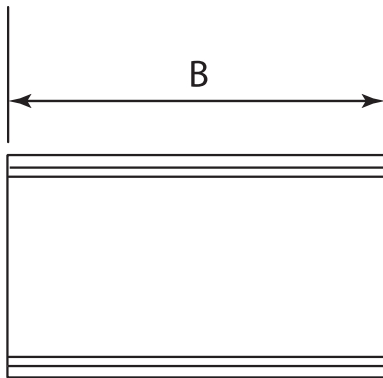
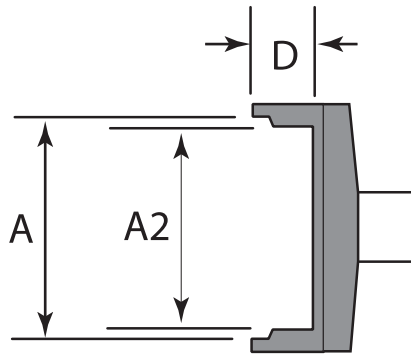
	A	D	B	SMT TYPE
SMTC- 5 05 SMTC- 0 05 SMTC-105	1.7 (.068)	1.27 (.05)	2.5 (.10)	SOT-32
SMTC- 5 96 SMTC- 0 96 SMTC-196	1.78 (.070)	1.02 (.040)	1.02 (.040)	Chip 0402, 0603
SMTC- 5 88 SMTC- 0 88 SMTC-188	2.03 (.080)	1.52 (.60)	1.27 (.050)	Chip 0402, 0603, 0805
SMTC- 5 01 SMTC- 0 01 SMTC-101	2.3 (.090)	1.8 (.070)	1.3 (.050)	Chip 0805
SMTC- 5 02 SMTC- 0 02 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- 5 36 SMTC- 0 36 SMTC-136	4.8 (.190)	4.06 (.16)	2.8 (.110)	Chip Box B EIA SOPM-4532
SMTC- 5 03 SMTC- 0 03 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



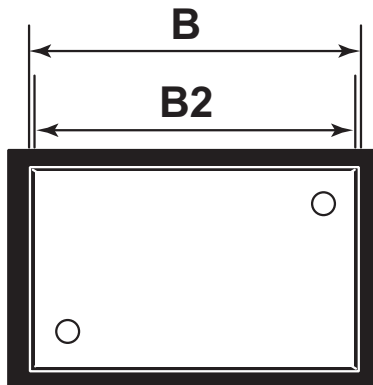
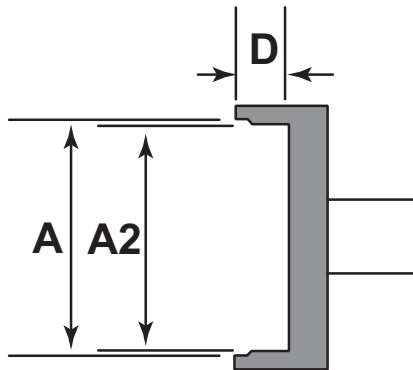
	A	A2	D	B	SMT TYPE
SMTC-004 SMTC-104	5.08 (.20)	5.08 (.20)	2.3 (.90)	4.32 (.17)	SOIC-8
SMTC-006 SMTC-106	5.08 (.20)	5.08 (.20)	2.3 (.90)	10.16 (.40)	SOIC-14,16
SMTC-0142 SMTC-1142	5.18 (.204)	5.18 (.204)	2.54 (.100)	8.89 (.350)	SOIC-14
SMTC-047 SMTC-147	8.51 (.335)	8.51 (.335)	5.08 (.200)	6.35 (.250)	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



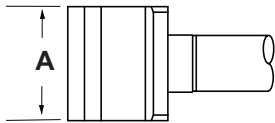
	A	A2	D	B	B2	SMT TYPE
SMTC-0121 SMTC-1121	8.38 (.330)	8.38 (.330)	2.54 (.100)	8.38 (.330)	8.38 (.330)	SQFP 48 (EIIJA)
SMTC-0112 SMTC-1112	10.16 (.400)	9.14 (.360)	3.80 (.150)	10.16 (.400)	9.14 (.360)	PLCC 20
SMTC-0120 SMTC-1120	11.18 (.440)	11.18 (.440)	2.54 (.100)	11.18 (.440)	11.18 (.440)	SQFP 64 (EIIJA)
SMTC-1159	12.19 (.480)	11.18 (.440)	2.79 (.110)	13.21 (.520)	12.19 (.480)	TQFP 44
SMTC-0113 SMTC-1113	12.70 (.500)	11.56 (.455)	3.80 (.150)	12.70 (.500)	11.56 (.455)	PLCC 28
SMTC-1116	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 (EIIJA)
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

SMTC-064
SMTC-164**A**
5mm
(.20")

BLADE TYPE

Short

SMTC-560
SMTC-060
SMTC-160
SMTC-86010mm
(.40")

Long

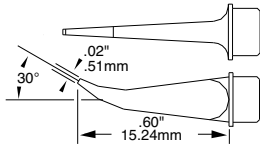
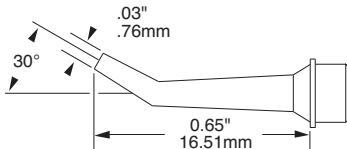
SMTC-561
SMTC-061
SMTC-161
SMTC-86115.75mm
(.62")

Long

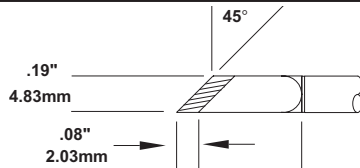
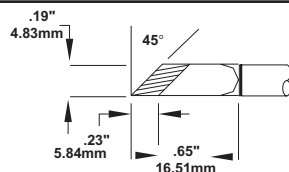
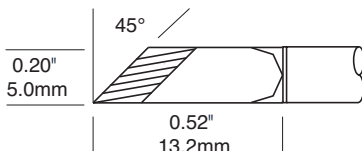
SMTC-562
SMTC-062
SMTC-162
SMTC-86222mm
(.86")

Long

HOOK & CONICAL

SMTC-5172
SMTC-0172
SMTC-1172
SMTC-8172Hook Long 30°
0.5mm x 15.24mm (.02"x.06")SMTC-5171
SMTC-0171
SMTC-1171
SMTC-8171Conical Bent 30°
0.76mm x 16.51mm (.03"x .65")

KNIFE

SMTC-5161
SMTC-0161
SMTC-1161Knife 45° - Increased tinned
Area Length 2.03mm (.08")
4.8mm x 16.51mm (.18"x .65")SMTC-5173
SMTC-1173
SMTC-8173Knife 45° - Increased tinned
Area Length 5.84mm (.23")
4.8mm x 16.51mm (.18"x .65")STTC-1173P
STTC-8173PKnife 45°
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	
HOOF		SMTC-5175 SMTC-0175 SMTC-1175 SMTC-8175	Micro Hoof 60° 0.89mm x 11.43mm (.035"x.45")
		SMTC-5174 SMTC-0174 SMTC-1174	Micro Hoof 60° Long Reach 1.14mm x 16.51mm (.045"x.65")
		SMTC-5167 SMTC-0167 SMTC-1167	Hoof 30° Long Reach 1.5mm x 16.51mm (.06"x.65")
		SMTC-5169 SMTC-0169 SMTC-1169	Hoof 60° Long Reach 2mm x 15.24mm (.08" x .60")
		SMTC-0183 SMTC-1183	Hoof Concave 30° Bent 2.5mm x 16.36mm (.01" x.64")
		SMTC-5170 SMTC-0170 SMTC-1170	Hoof 60° Long Reach 3mm x 15.24mm (.12" x.60")
SPECIALITY		SMTC-5147 SMTC-0147 SMTC-1147 SMTC-8147	Hoof 60° Long Reach 3.3mm x 17.78mm (.13" x .70")
		SMTC-198	28 Pin SMT Connector

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.

CONICAL

BLADE

PTTC Tweezer Cartridges

PTTC TWEEZER CARTRIDGES

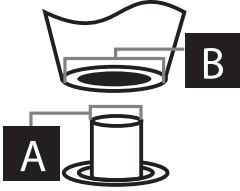
Compatible with: MX-5000 Systems and MX-PTZ Precision Tweezers hand-piece

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

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-500 Systems and MX-Talon hand-piece	
	TATC-609	Fine Point, thickness 0.35mm (.013") 0.5mm x 12.45mm (.02" x .49")
	TATC-601	Fine Point, thickness 1.2mm (.047") 0.5mm x 12.45mm (.02" x .49")
	TATC-608	Dual Side, angled Point 1.27mm (.05")
	TATC-602	Blade 6.35mm x 10.16mm (.25" x .40")
	TATC-605	Blade 10mm x 10.93mm (.394" x .43")
	TATC-603	Blade 15.75mm x 8.38mm (.62" x .33")
	TATC-604	Blade 20.57mm x 8.38mm (.81" x .33")
	TATC-606	Blade 27.94mm x 7.62mm (1.1" x .30")

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)			
  Standard		A	B	C	TYPE
	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

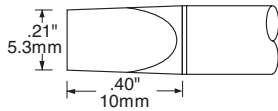
SSC SOLDERING CARTRIDGES		
	SSC-671A SSC-771A	Chisel 1.0mm x 9.1mm (.04" x .36")
	SSC-625A SSC-725A	Chisel 30° 1.0mm x 11mm (.04" x .43")
	SSC-638A SSC-738A	Chisel 30° 1.5mm x 10mm (.06" x .40")
	SSC-637A SSC-737A	Chisel 30° 1.78mm x 9.9mm (.07" x .40")
	SSC-672A SSC-772A	Chisel 1.78mm x 9.9mm (.07"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



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

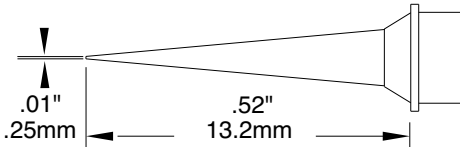
SSC SOLDERING CARTRIDGES

CONICAL



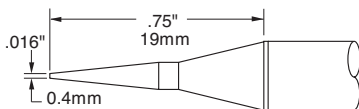
SSC-617A
SSC-717A

Extra Large Chisel
5.3mm x 10mm (.21" x .40")



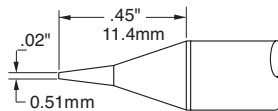
SSC-690A
SSC-790A

Long Reach
Micro Fine Conical
0.25mm x 13.2mm (.01" x .52")



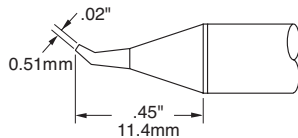
SSC-645A
SSC-745A

Conical Sharp Long Reach
0.4mm x 19mm (.016" x .75")



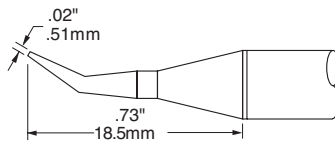
SSC-622A
SSC-722A

Conical Sharp
0.51mm x 11.4mm (.02" x .45")



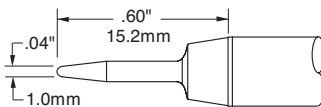
SSC-626A
SSC-726A

Conical Sharp Bent 30°
0.51mm x 11.4mm (.02" x .45")



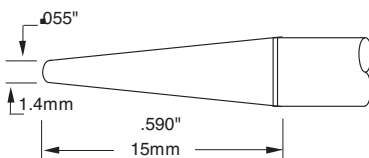
SSC-654A
SSC-754A

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

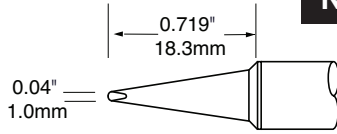
SSC SOLDERING CARTRIDGES		
HOOF		SSC-667A SSC-767A Mini-Hoof 1.27mm x 17.8mm (.05" x .70")
		SSC-639A SSC-739A Hoof 2.3mm x 17.8mm (.016" x .70")
KNIFE		SSC-661A SSC-761A Knife 45° 4.5mm x 16.25mm (.18" x .64")
		SSC-673A SSC-773A Knife 45° Increased tinned area 5.1mm x 16.25mm (.24" x .64")
BEVEL		SSC-647A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

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



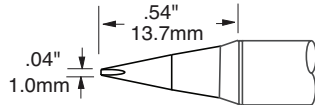
Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems,
PS-HC3 and MFR-H2-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies

CHISEL

SxV SOLDERING TIPS**NEW**

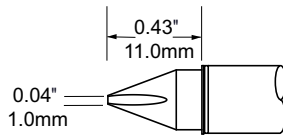
SFV-CH10A
STV-CH10A
SCV-CH10A

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

OLD STYLE

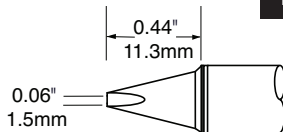
SFV-CH10AR
STV-CH10AR
SCV-CH10AR

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



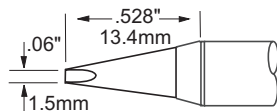
SFV-CH10
STV-CH10
SCV-CH10

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

NEW

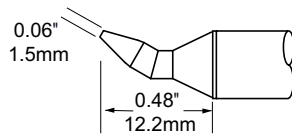
SFV-CH15A
STV-CH15A
SCV-CH15A

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

OLD STYLE

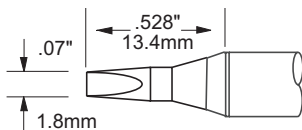
SFV-CH15AR
STV-CH15AR
SCV-CH15AR

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



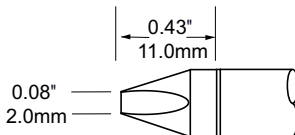
SFV-CHB15
STV-CHB15
SCV-CHB15

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



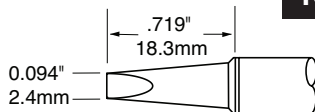
SFV-CH18AR
STV-CH18AR
SCV-CH18AR

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



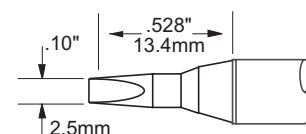
SFV-CH20
STV-CH20
SCV-CH20

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

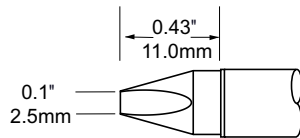
Chisel
Original Easy Access Geometry
2.5mm x 13.4mm (.10" x .528")

SxV Soldering Tips



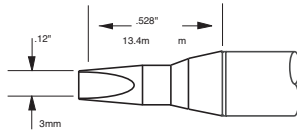
Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems,
PS-HC3 and MFR-H2-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies

CHISEL

SxV SOLDERING TIPS

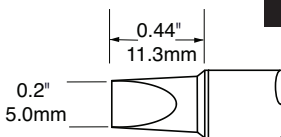
SFV-CH25
STV-CH25
SCV-CH25

Chisel
2.5mm x 11mm (.10" x .43")



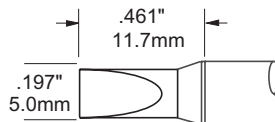
SFV-CH30AR
STV-CH30AR
SCV-CH30AR

Chisel
Original Easy Access Geometry
3.0mm x 13.4mm (.12" x .528")

**NEW**

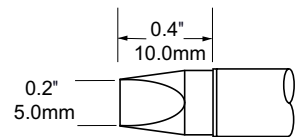
SFV-CH50A
STV-CH50A
SCV-CH50A

Chisel
Optimised for thermal performance
5.0mm x 11.3mm (.20" x .44")

OLD STYLE

SFV-CH50AR
STV-CH50AR
SCV-CH50AR

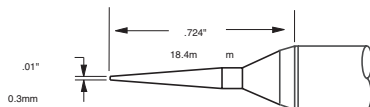
Chisel
Original Easy Access Geometry
5.0mm x 11.7mm (.197" x .461")



SFV-CH50
STV-CH50
SCV-CH50

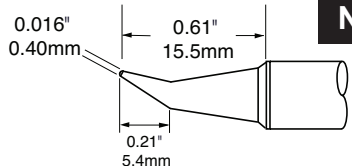
Chisel
5.0mm x 10mm (.20" x .4")

CONICAL

OLD STYLE

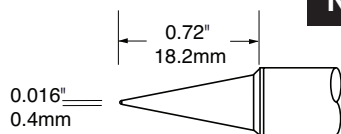
SFV-CNL03AR
STV-CNL03AR
SCV-CNL03AR

Conical Long Reach
Original Easy Access Geometry
0.3mm x 18.4mm (.01" x .724")

**NEW**

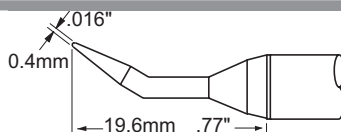
SFV-CNB04A
STV-CNB04A
SCV-CNB04A

Conical Bent Long Reach
Optimised for thermal performance
0.4mm x 15.5mm (.016" x .61")

**NEW**

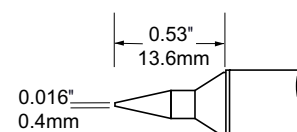
SFV-CN05A
STV-CN05A
SCV-CN05A

Conical Long Reach
Optimised for thermal performance
0.4mm x 18.2mm (.016" x .72")

OLD STYLE

SFV-CNB04AR
STV-CNB04AR
SCV-CNB04AR

Conical Bent
Original Easy Access Geometry
0.4mm x 19.6mm (.016" x .77")



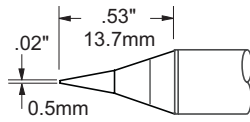
SFV-CNL04
STV-CNL04
SCV-CNL04

Conical
0.4mm x 13.6mm (.016" x .53")

**SxV SOLDERING TIPS**

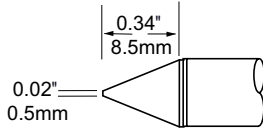
Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems,
PS-HC3 and MFR-H2-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies

CONICAL

OLD STYLE

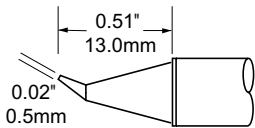
SFV-CN05AR
STV-CN05AR
SCV-CN05AR

Conical
Original Easy Access Geometry
0.5mm x 13.7mm (.02" x .53")



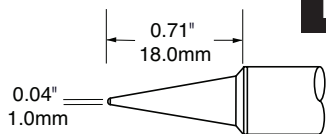
SFV-CN05
STV-CN05
SCV-CN05

Conical
0.5mm x 8.5mm (.02" x .34")



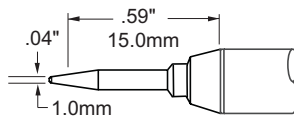
SFV-CNB05
STV-CNB05
SCV-CNB05

Conical Bent
0.5mm x 13mm (.02" x .51")



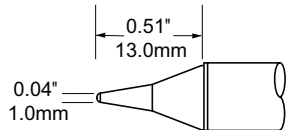
SFV-CNL10A
STV-CNL10A
SCV-CNL10A

Conical Long Reach
Optimised for thermal performance
1.0mm x 18mm (.04" x .71")

OLD STYLE

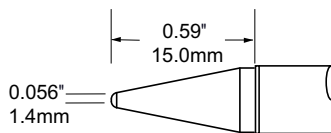
SFV-CNL10AR
STV-CNL10AR
SCV-CNL10AR

Conical Long Reach
Original Easy Access Geometry
1.0mm x 13.7mm (.04" x .54")



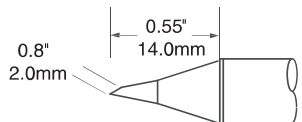
SFV-CNL10
STV-CNL10
SCV-CNL10

Conical Long Reach
1.0mm x 13mm (.04" x .51")



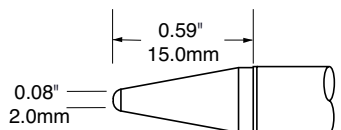
SFV-CNL14
STV-CNL14
SCV-CNL14

Conical Long Reach
1.4mm x 15mm (.056" x .59")



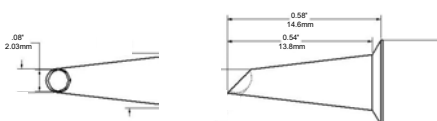
SFV-DRH20
STV-DRH20
SCV-DRH20

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")

SxV Soldering Tips



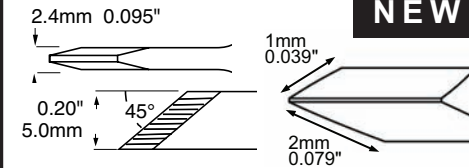
Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems,
PS-HC3 and MFR-H2-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies

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° <i>CP = Chrome Plating, face only</i> 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")
		SFV-DRH420A STV-DRH420A SCV-DRH420A Hoof <i>Optimised for thermal performance</i> 3.47mm x 12.2mm (.137" x .48")
		SFV-DRH30CP STV-DRH30CP SCV-DRH30CP Hoof 45° <i>CP = Chrome Plating, face only</i> 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° <i>CP = Chrome Plating, face only</i> 4.6mm x 13mm (.18" x .51")
KNIFE		SFV-DRH440A STV-DRH440A SCV-DRH440A Hoof <i>Optimised for thermal performance</i> 4.75mm x 13.2mm (.187" x .52")
		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")

**SxV SOLDERING TIPS**

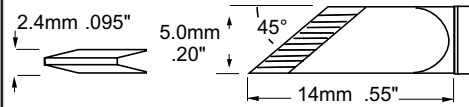
Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems,
PS-HC3 and MFR-H2-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies

KNIFE

NEW

SFV-DRK45A
STV-DRK45A
SCV-DRK45A

Knife 45°
Optimised for thermal performance
5.0mm x 15.1mm (.20" x .60")



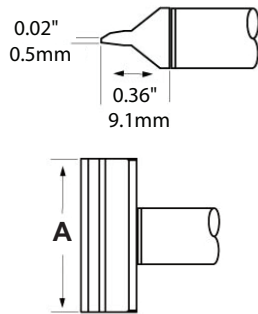
SFV-DRK50
STV-DRK50
SCV-DRK50

Knife 45°
5.0mm x 14mm (.20" x .55")

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

CxV BLADE 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



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

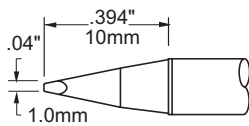
50mm (2")

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

PHT SOLDERING TIPS

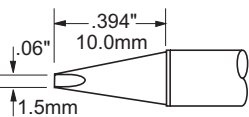
Compatible with: PS-800, PS-800E and PS-900 Systems and PS-CA1 Coil Assembly

CHISEL



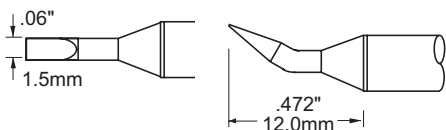
PHT-750315
PHT-650315

Chisel Fine 30°
1.0mm x 10mm (.04" x .394")



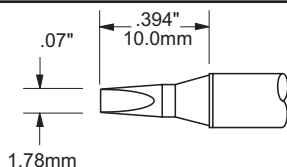
PHT-750325
PHT-650325

Chisel 60°
1.5mm x 10mm (.06" x .394")



PHT-750326
PHT-650326

Chisel Fine Bent 30°
1.5mm x 12mm (.06" x .472")



PHT-750335
PHT-650335

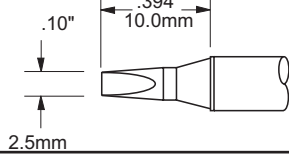
Chisel 30°
1.78mm x 10mm (.07" x .394")

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

**PHT SOLDERING TIPS**

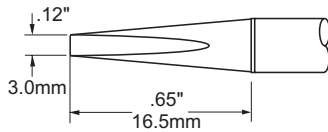
Compatible with: PS-800, PS-800E and PS-900 Systems and PS-CA1 Coil Assembly

CHISEL



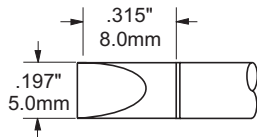
PHT-751355
PHT-651355

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



PHT-751367
PHT-651367

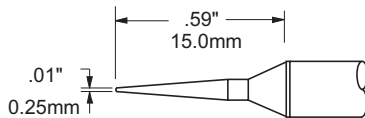
Chisel 30° Long Reach
3.0mm x 16.5mm (.12" x .65")



PHT-751384
PHT-651384

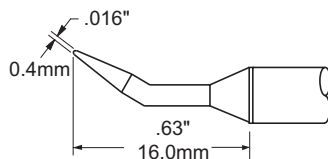
Chisel 30°
3.0mm x 8mm (.12" x .315")

CONICAL



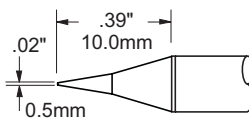
PHT-752017
PHT-652017

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



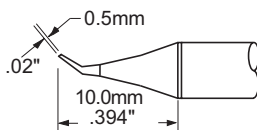
PHT-752327
PHT-652327

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



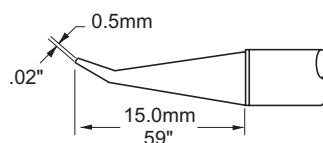
PHT-752035
PHT-652035

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



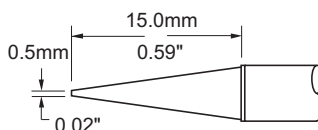
PHT-752335
PHT-652335

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



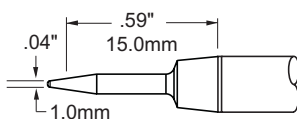
PHT-752337
PHT-652337

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")



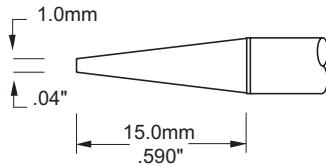
PHT-752057
PHT-652057

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

**PHT SOLDERING TIPS**

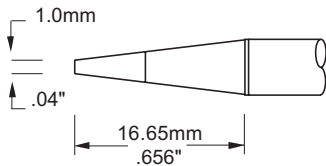
Compatible with: PS-800, PS-800E and PS-900 Systems and PS-CA1 Coil Assembly

CONICAL



PHT-753067
PHT-653067

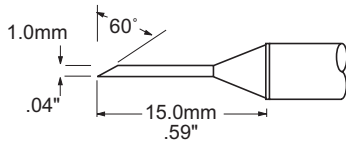
Conical Long Reach
1.0mm x 15mm (.04" x .59")



PHT-753077
PHT-653077

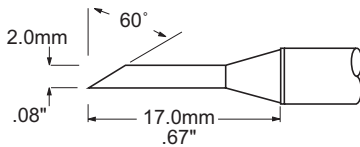
Conical Long Reach
1.0mm x 16.6mm (.04" x .656")

HOOF



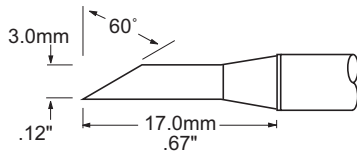
PHT-754627
PHT-654627

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



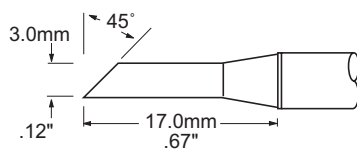
PHT-754667
PHT-654667

Hoof 60°
2.0mm x 17mm (.08" x .67")



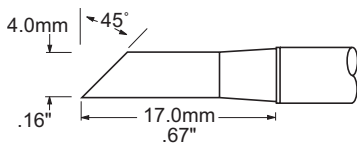
PHT-754687
PHT-654687

Hoof 60°
3.0mm x 17mm (.12" x .67")



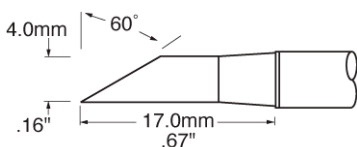
PHT-754487F
PHT-654487F

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



PHT-654497

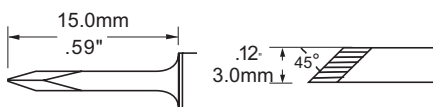
Hoof 45°
4.00mm x 17mm (.16" x .67")



PHT-654697

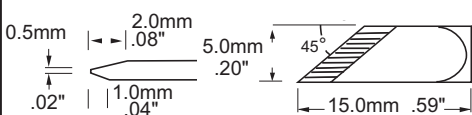
Hoof 60°
4.00mm x 17mm (.16" x .67")

KNIFE



PHT-755437
PHT-655437

Knife 45°
4.5mm x 15mm (.18" x .59")

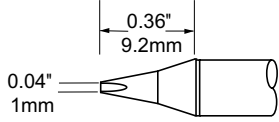


PHT-755477
PHT-655477

Knife 45°
5.0mm x 15mm (.20" x .59")

PHT Soldering Tips



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

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



CONICAL

SxP SOLDERING & REWORK CARTRIDGES		Compatible with: MFR-1110, MFR-1161, MFR-2211, MFR-2241 Systems and MFR-H1-SC hand-piece	
		SFP-CN04 STP-CN04 SCP-CN04	Conical 0.4mm x 8.6mm (.016" x .34")
		SFP-CNB04 STP-CNB04 SCP-CNB04	Conical Bent 0.4mm x 15.21mm (.016" x .6")
		SFP-CNL04 STP-CNL04 SCP-CNL04	Conical Long Reach 0.4mm x 14.9mm (.016" x .59")
		SFP-CN05 STP-CN05 SCP-CN05	Conical 0.5mm x 4.95mm (.02" x .20")
		SFP-CNB05 STP-CNB05 SCP-CNB05	Conical Bent Long Reach 0.5mm x 14.7mm (.02" x .58")
		SFP-CNL06 SCP-CNL06	Conical Long Reach 0.6mm x 14.9mm (.023" x .59")
BEVEL		SFP-BLV10 STP-BLV10 SCP-BLV10	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



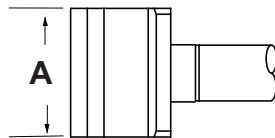
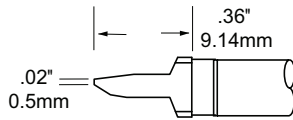
SxP SOLDERING & REWORK CARTRIDGES			Compatible with: MFR-1110, MFR-1161, MFR-2211, MFR-2241 Systems and MFR-H1-SC hand-piece
HOOF		SFP-DRH05 STP-DRH05 SCP-DRH05	Hoof 0.5mm x 15.21mm (.02" x .6")
		SFP-DRH610 STP-DRH610 SCP-DRH610	Hoof 1.0mm x 11.6mm (.04" x .45")
		SFP-DRH15 STP-DRH15 SCP-DRH15	Hoof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

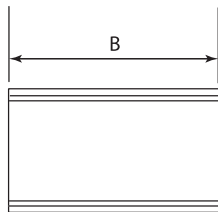
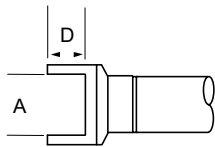
RxP REWORK CARTRIDGES

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

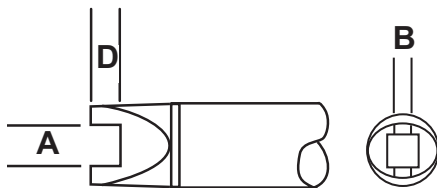
BLADE



TUNNEL



SLOT



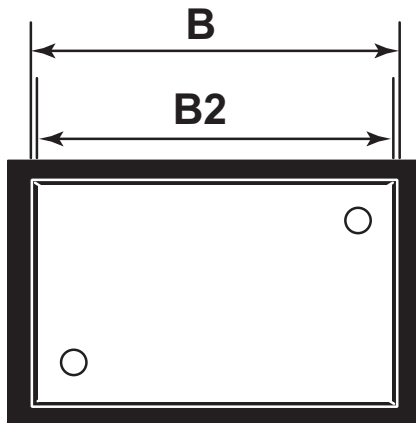
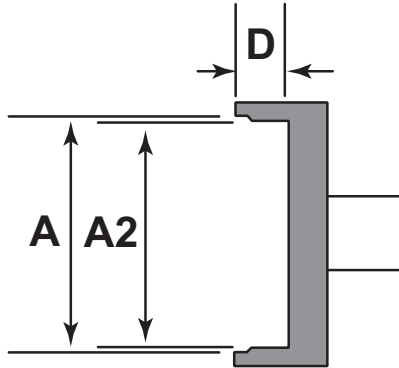
	A	B	D	SMT TYPE
RFP-BL1 RCP-BL1	10 (0.41)	-	-	-
RFP-BL2 RCP-BL2	15.6 (0.62)	-	-	-
RFP-BL3 RCP-BL2	22.1 (0.87)	-	-	-
RFP-DL1 RCP-DL1	5.18 (0.204)	4.32 (0.17)	3.22 (0.127)	Tunnel SOIC-8
RFP-DL2 RCP-DL2	5.18 (0.204)	4.32 (0.17)	2.29 (.09)	Tunnel SOIC-14-16
RFP-DL3 RCP-DL3	6.86 (.270)	11.15 (0.44)	2.29 (.09)	Tunnel SOMC-16
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

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

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

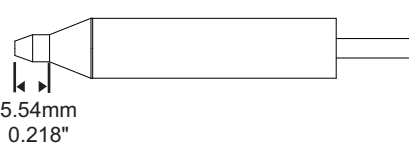


	A	A2	D	B	B2	SMT TYPE
RFP-QD4 RCP-QD4	12.70 (.500)	11.43 (.450)	3.81 (.150)	15.24 (.600)	13.97 (.550)	PLCC 32
RFP-QD6 RCP-QD6	17.78 (.700)	16.76 (.660)	3.81 (.150)	17.78 (.700)	16.76 (.660)	PLCC 44
RFP-QD7 RCP-QD7	25.27 (.995)	24.38 (.960)	5.59 (.220)	25.27 (.995)	24.38 (.960)	PLCC 68
RFP-QD10 RCP-QD10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

TxP Tweezer Cartridges		Compatible with: MFR-1140, MFR-2240, MFR2241 Systems and MFR-H4-TW hand-piece	
BLADE		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.

DxP DESOLDERING TIPS		Compatible with: MFR-DSX, MFR-DSI, MFR-SDX, MFR-SDI Systems and MFR-HDS hand-piece All dimensions shown are in mm (inches)		
  Standard		A	B	TYPE
	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?

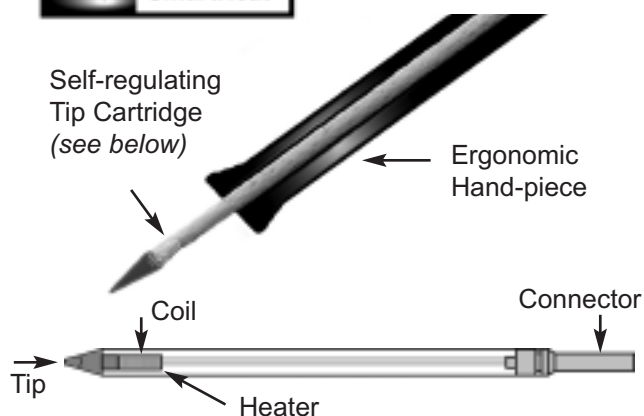
SmartHeat® Technology is unique in that it senses the specific thermal demand directly at the solder pad and delivers the precise quantity and flow of thermal energy during both flux activation and inter-metallic bonding phases without any adjustment and calibration. SmartHeat® is radically different 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.

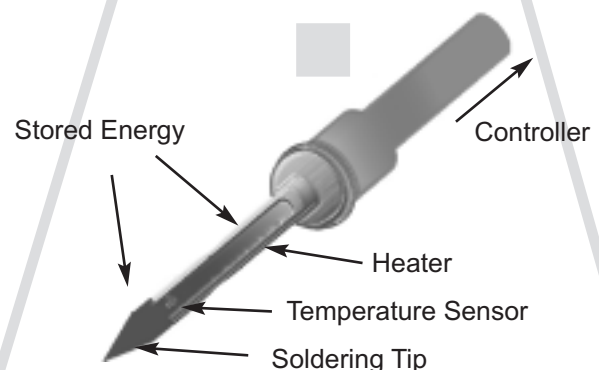
SmartHeat® Soldering Technology = Variable Power / Fixed Temperature

- ▶ 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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