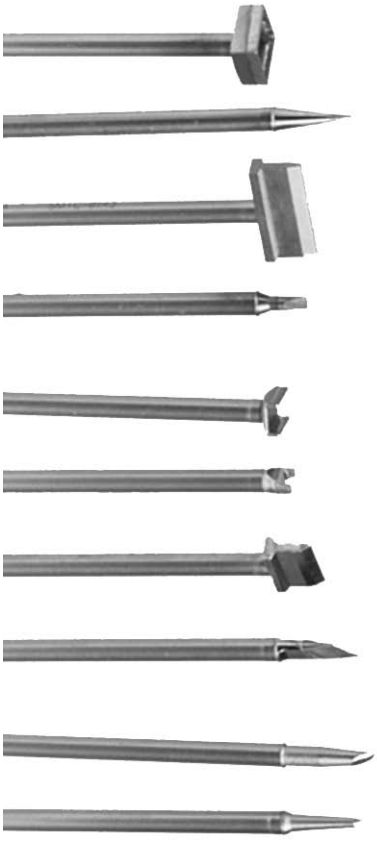
METCAL

OKI

Soldering / Desoldering / Rework

Tips and Cartridges

SELECTION GUIDE



Powered by Metcal SmartHeat®

Content

Metcal STTC Soldering Cartridges ..... 1 - 4

Metcal UFTC UltraFine Soldering Cartridges ..... 5 - 6

Metcal SMTC Rework Cartridges ..... 7 - 11

Metcal PTTC Tweezer Cartridges 12

Metcal TATC Talon Cartridges 13

Metcal STDC Desoldering Cartridges 14

Metcal and OKi SSC Soldering Cartridges ..... 15 - 17

OKi SxV Soldering Tips ..... 18 - 22

OKi CxV Soldering Tips 22

OKi PHT Soldering Tips ..... 22 - 24

OKi SxP Soldering & Rework Cartridges ..... 25 - 27

OKi RxP Rework Cartridges ..... 28 - 29

OKi TxP Tweezer Cartridges 30

OKi DxP Desoldering Tips 31

Tip Temperature Chart 32

SmartHeat® Technology 33

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

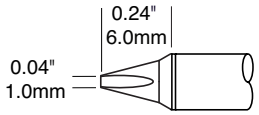
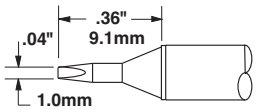
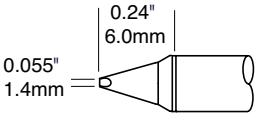
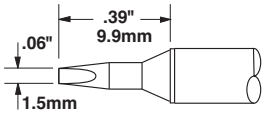
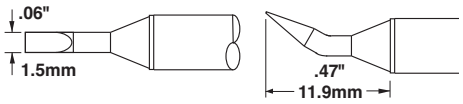
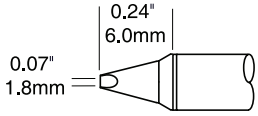
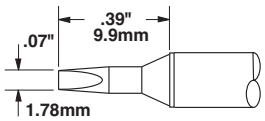
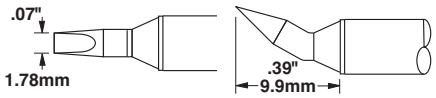
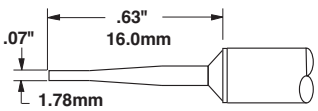
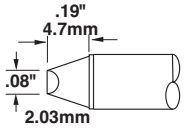
SmartHeat® Technology = Variable Power / Fixed Temperature

◗ See page 33 for full explanation

Metcal Cartridges

METCAL

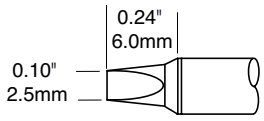
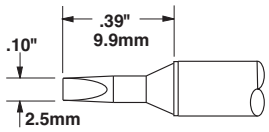
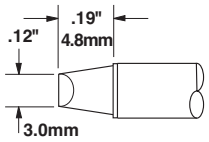
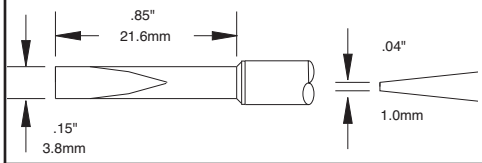
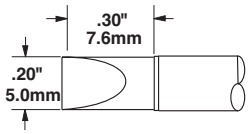
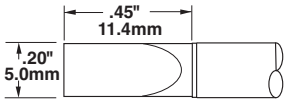
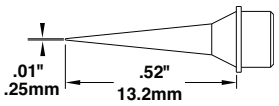
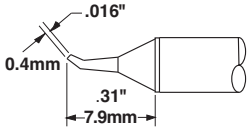
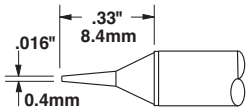
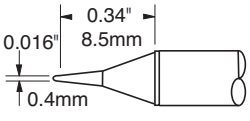
CHISEL

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.

STTC Soldering Cartridges

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

CHISEL		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"

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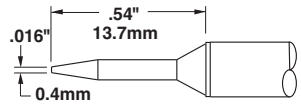
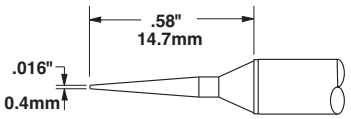
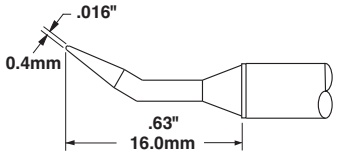
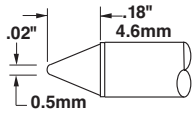
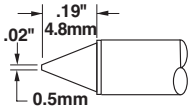
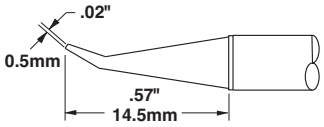
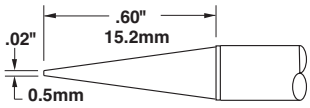
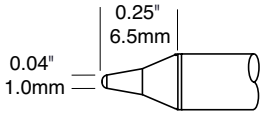
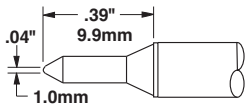
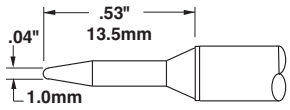
METCAL

CONICAL

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 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")

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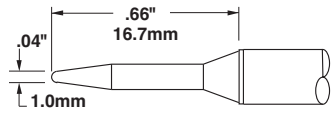
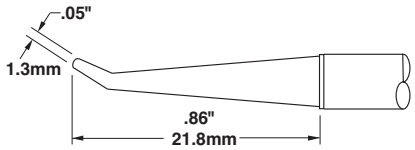
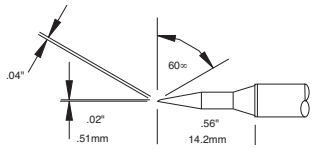
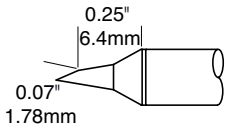
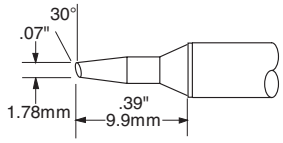
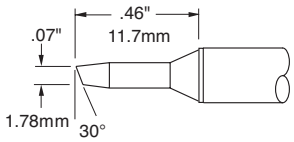
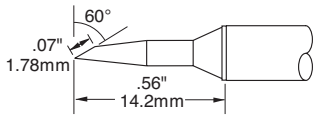
STTC Soldering Cartridges

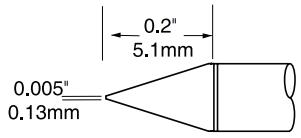
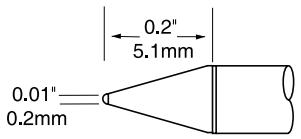
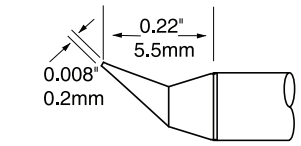
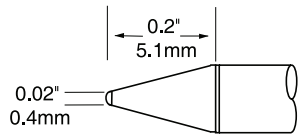
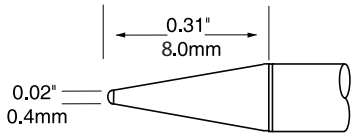
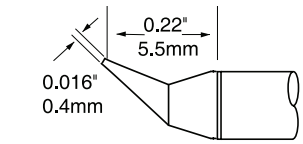
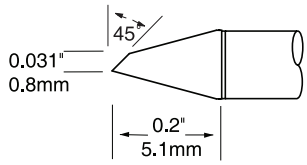
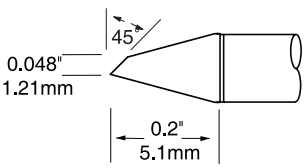
Compatible with: MX-500 and MX-5000 Systems / MX-RM3E and MX-H1-AV hand-pieces

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.

UFTC UltraFine Soldering Cartridges

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

CONICAL		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")

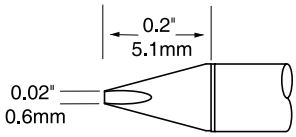
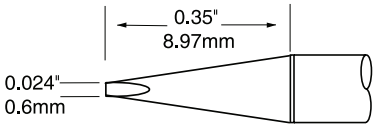
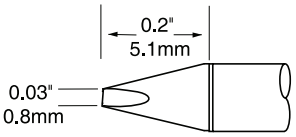
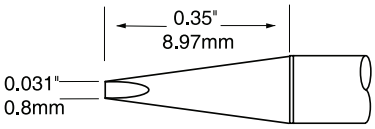
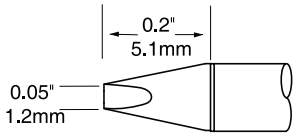
7 = 700 Series for most standard applications

METCAL

UFTC UltraFine Soldering Cartridges

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

CHISEL

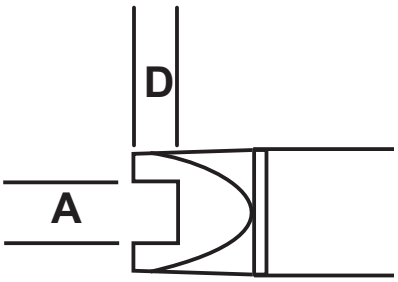
	UFTC-7CH06	Chisel 0.6mm x 5.1mm (.024" x .20")
	UFTC-7CHL06	Chisel Long 0.6mm x 9mm (.024" x .35")
	UFTC-7CH08	Chisel 0.8mm x 5.1mm (.03" x .2")
	UFTC-7CHL08	Chisel Long 0.8mm x 9mm (.03" x .35")
	UFTC-7CH12	Chisel 1.2mm x 5.1mm (.05" x .20")

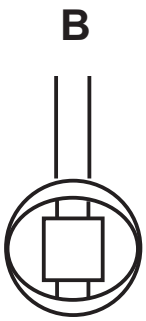
7 = 700 Series for most standard applications

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



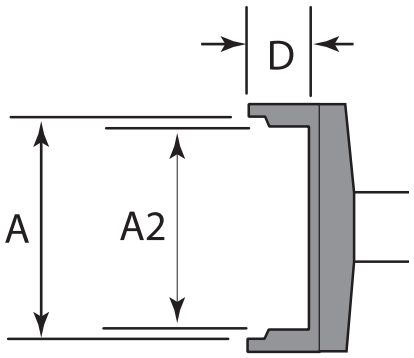


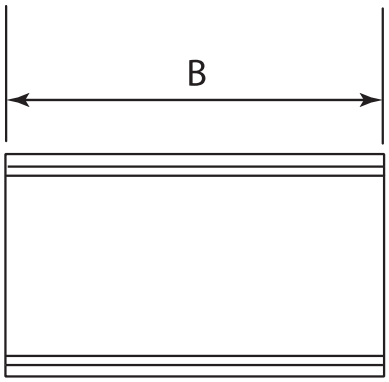
	A	D	B	SMT TYPE
SMTC-505 SMTC-005 SMTC-105	1.7 (.068)	1.27 (.05)	2.5 (.10)	SOT-32
SMTC-596 SMTC-096 SMTC-196	1.78 (.070)	1.02 (.040)	1.02 (.040)	Chip 0402, 0603
SMTC-588 SMTC-088 SMTC-188	2.03 (.080)	1.52 (.60)	1.27 (.050)	Chip 0402, 0603, 0805
SMTC-501 SMTC-001 SMTC-101	2.3 (.090)	1.8 (.070)	1.3 (.050)	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)





	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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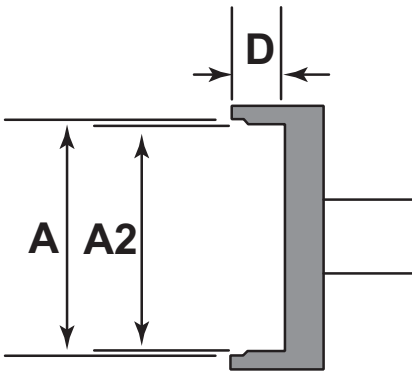
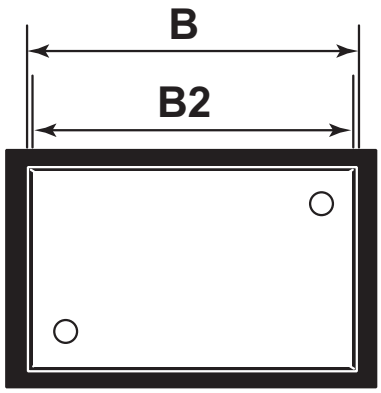
SMTC Rework Cartridges

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

QUAD





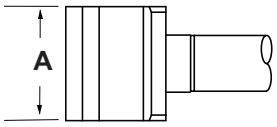
	A	A2	D	B	B2	SMT TYPE
SMTC-0121 SMTC-1121	8.38 (.330)	8.38 (.330)	2.54 (.100)	8.38 (.330)	8.38 (.330)	SQFP 48 (EIJA)
SMTC-0112 SMTC-1112	10.16 (.400)	9.14 (.360)	3.80 (.150)	10.16 (.400)	9.14 (.360)	PLCC 20
SMTC-0120 SMTC-1120	11.18 (.440)	11.18 (.440)	2.54 (.100)	11.18 (.440)	11.18 (.440)	SQFP 64 (EIJA)
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

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

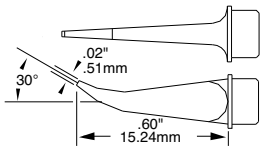
Compatible with: MX-500 and MX-5000 Systems, MX-RM3E and MX-H1-AV hand-pieces

BLADE



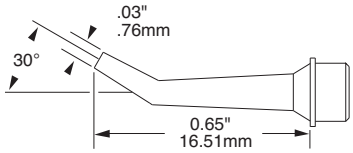
	A	BLADE TYPE
SMTC-064 SMTC-164	5mm (.20")	Short
SMTC-560 SMTC-060 SMTC-160 SMTC-860	10mm (.40")	Long
SMTC-561 SMTC-061 SMTC-161 SMTC-861	15.75mm (.62")	Long
SMTC-562 SMTC-062 SMTC-162 SMTC-862	22mm (.86")	Long

HOOK & CONICAL



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

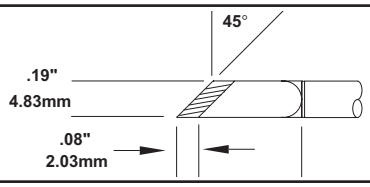
Hook Long 30°
0.5mm x 15.24mm (.02"x.06")



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

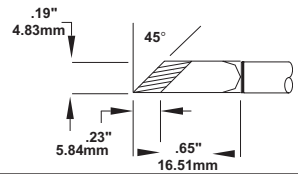
Conical Bent 30°
0.76mm x 16.51mm (.03"x .65")

KNIFE



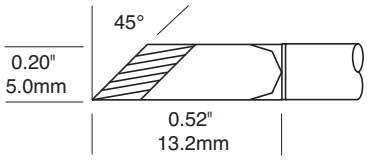
SMTC-5161
SMTC-0161
SMTC-1161

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")

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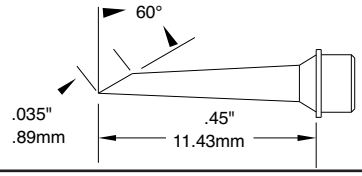
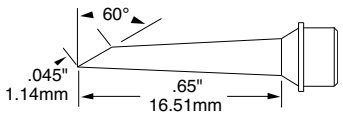
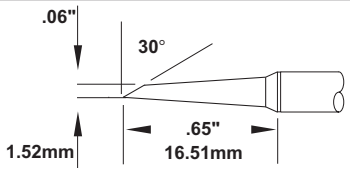
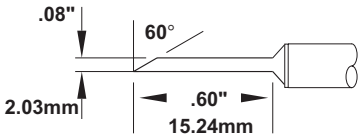
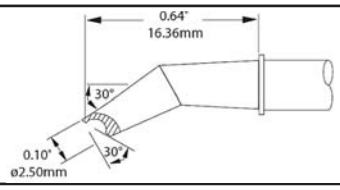
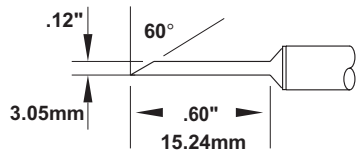
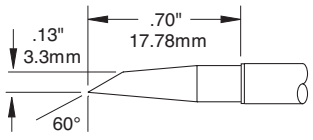
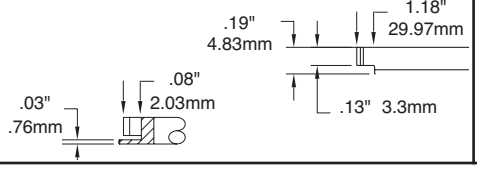
8 = 800 Series for Ceramic and high thermal demand applications.

SMTC Rework Cartridges

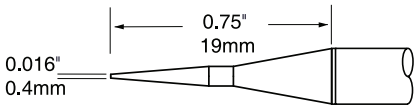
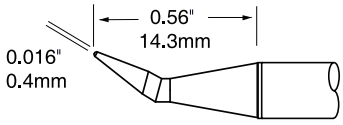
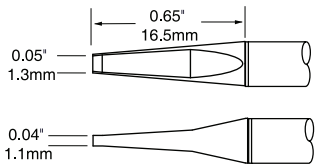
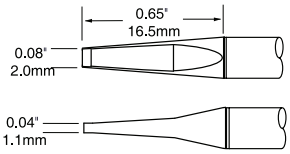
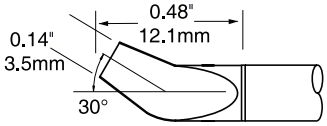
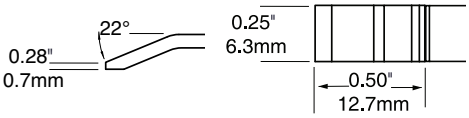
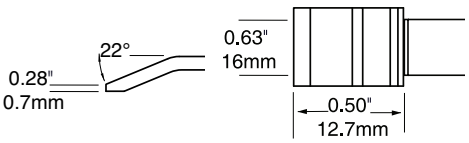
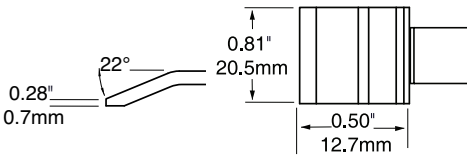
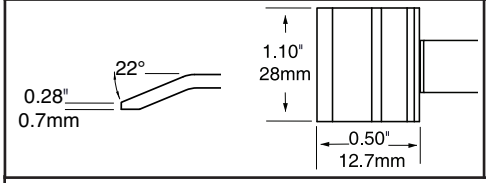
Compatible with: MX-500 and MX-5000 Systems, MX-RM3E and MX-H1-AV hand-pieces

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")
		SMTC-5147 SMTC-0147 SMTC-1147 SMTC-8147	Hoof 60° Long Reach 3.3mm x 17.78mm (.13" x .70")
SPECIALITY		SMTC-198	28 Pin SMT Connector

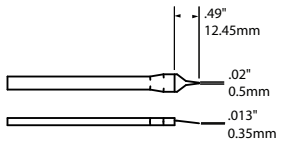
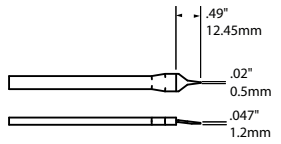
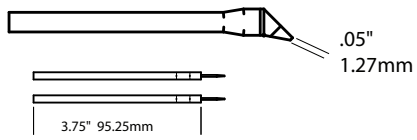
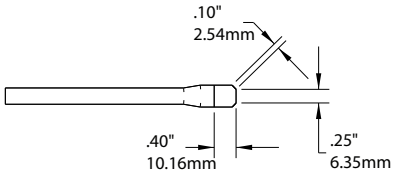
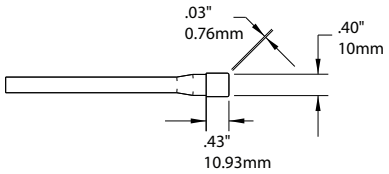
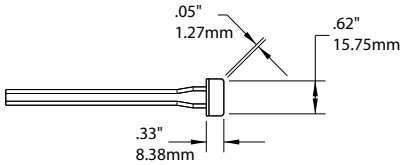
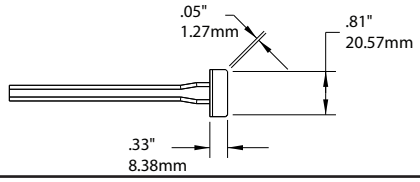
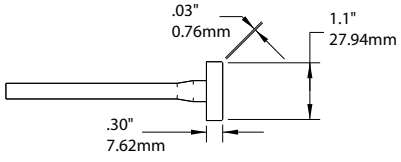
5 = 500 Series and 0 = 600 Series for temperature sensitive applications - 1 = 700 Series for most standard applications.
8 = 800 Series for Ceramic and high thermal demand applications.

PTTC Tweezer Cartridges

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

CONICAL		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")
BLADE		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")

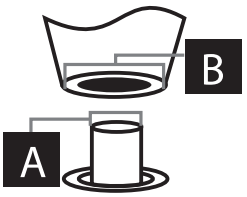
6 = 600 Series for temperature sensitive applications. 1 = 700 Series for most standard applications.
8 = 800 Series for Ceramic and high thermal demand applications.

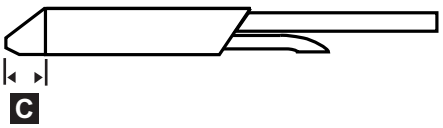
TATC Talon Cartridges	Compatible with: MX-500 Systems and MX-Talon hand-piece	
	TATC-609	Fine Point, thickness 0.35mm (.0137") 0.5mm x 12.45mm (.02" x .49")
	TATC-601	Fine Point, thickness 1.2mm (.047") 0.5mm x 12.45mm (.02" x .49")
	TATC-608	Dual Side, angled Point 1.27mm (.05")
	TATC-602	Blade 6.35mm 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.

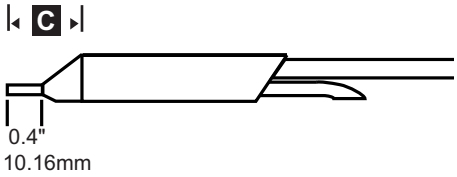
STDC Desolder Cartridges

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





Standard



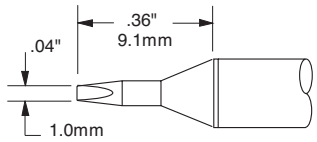
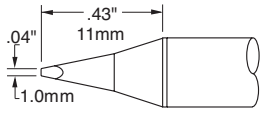
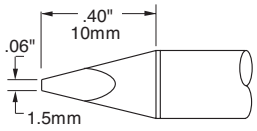
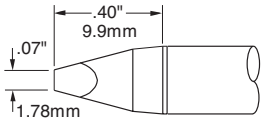
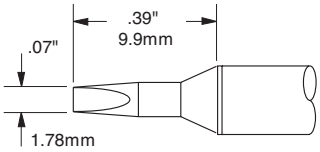
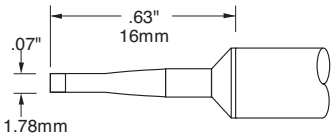
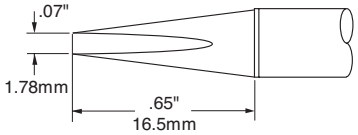
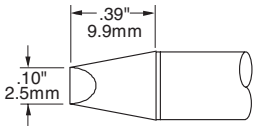
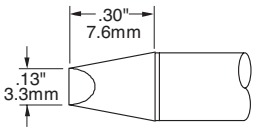
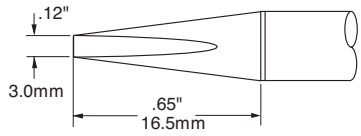
Long Reach

	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

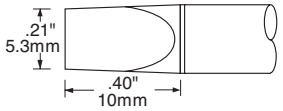
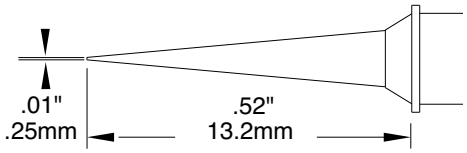
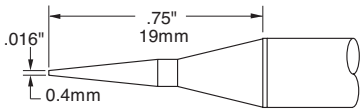
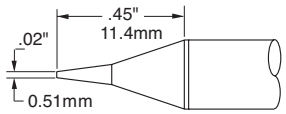
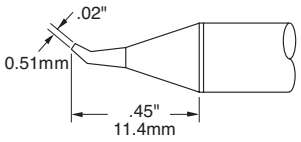
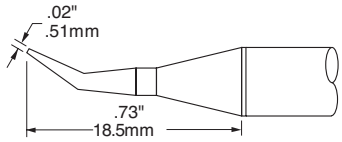
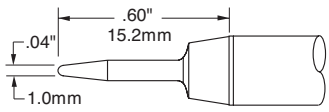
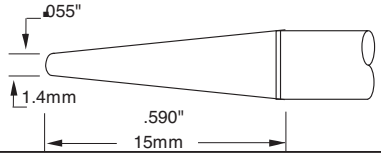
1 = 700 Series (standard length) and 7 = 700 Series (long reach) for most standard applications.
8 = 800 Series for Ceramic and high thermal demand applications.

OKi METCAL

CHISEL

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

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

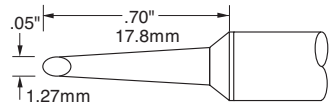
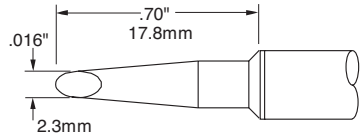
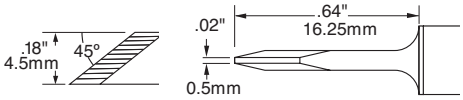
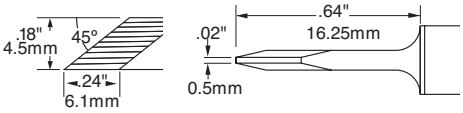
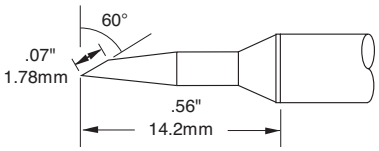
SSC Soldering Cartridges	Compatible with: Metcal SP200, OKi MFR-1160 Systems, Metcal SP-HC12 and OKi MFR-H6-SSC hand-pieces	
	SSC-617A SSC-717A	Extra Large Chisel 5.3mm x 10mm (.21" x .40")
	SSC-690A SSC-790A	Long Reach Micro Fine Conical 0.25mm x 13.2mm (.01" x .52")
	SSC-645A SSC-745A	Conical Sharp 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.

CONICAL

SSC Soldering Cartridges

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

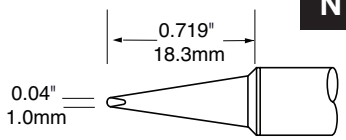
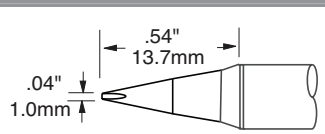
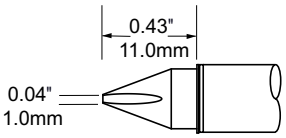
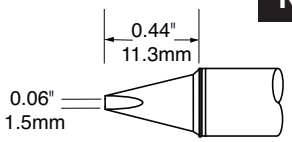
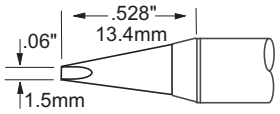
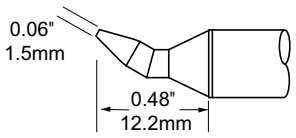
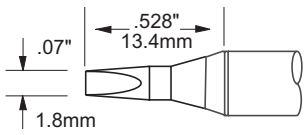
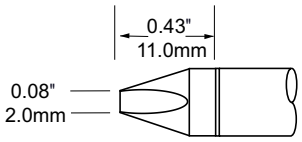
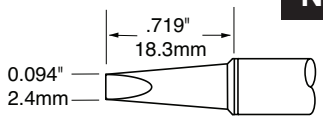
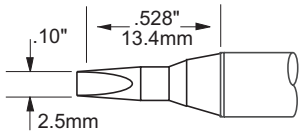
HOOF		SSC-667A SSC-767A	Mini-Hoof 1.27mm x 17.8mm (.05" x .70")
		SSC-639A SSC-739A	Hoof 2.3mm x 17.8mm (.016" x .70")
KNIFE		SSC-661A SSC-761A	Knife 45° 4.5mm x 16.25mm (.18" x .64")
		SSC-673A SSC-773A	Knife 45° Increased tinned area 5.1mm x 16.25mm (.24" x .64")
BEVEL		SSC-647A SSC-747A	Bevel 60°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

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

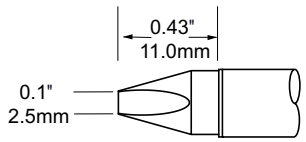
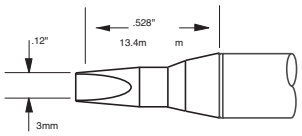
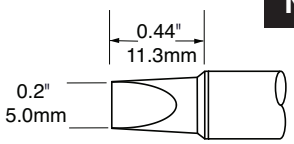
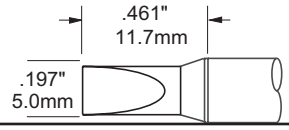
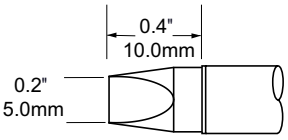
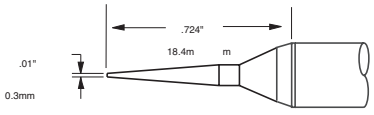
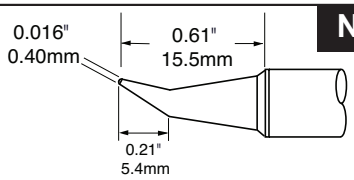
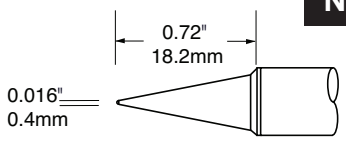
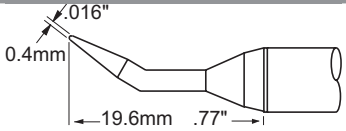
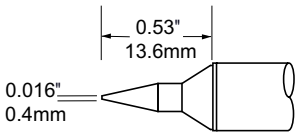
SxV Soldering Tips

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

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")

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

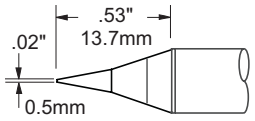
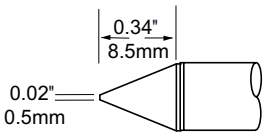
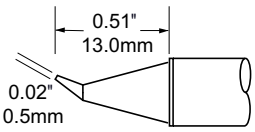
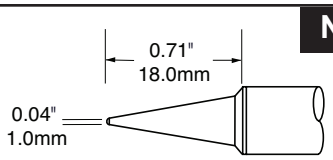
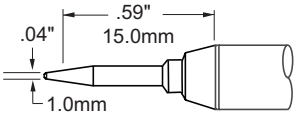
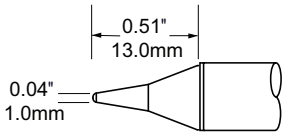
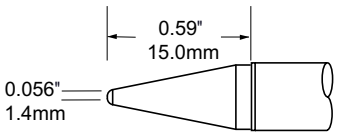
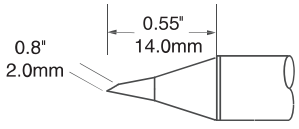
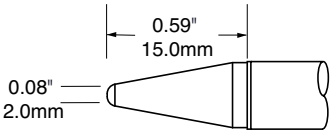
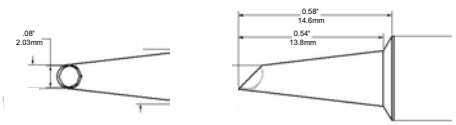
SxV Soldering Tips	Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems, PS-HC3 and MFR-H2-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies	
CHISEL		
	SFV-CH25 STV-CH25 SCV-CH25	Chisel 2.5mm x 11mm (.10" x .43")
	SFV-CH30AR STV-CH30AR SCV-CH30AR	Chisel *Original Easy Access Geometry* 3.0mm 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")

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

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

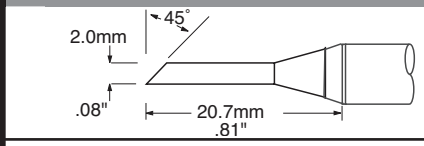
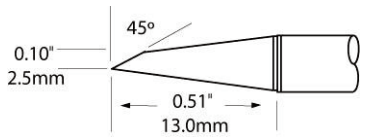
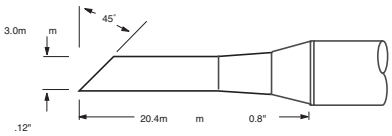
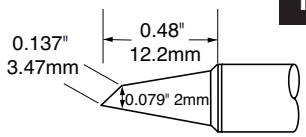
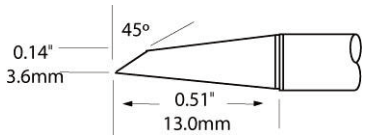
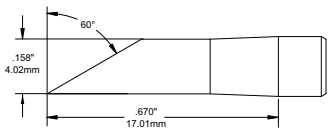
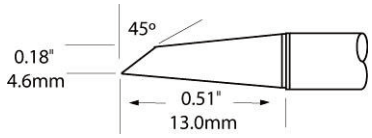
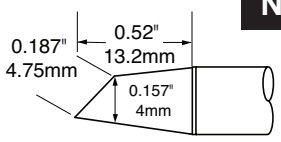
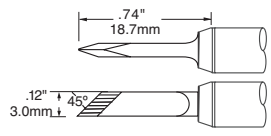
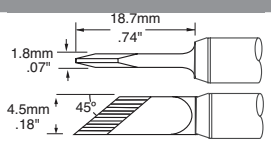
CONICAL

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")
NEW 	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")

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

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

HOOF	OLD STYLE 	SFV-DRH420AR STV-DRH420AR SCV-DRH420AR	Hoof 45° Long Reach *Original Easy Access Geometry* 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 *Original Easy Access Geometry* 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 *Original Easy Access Geometry* 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 *Original Easy Access Geometry* 3mm x 18.7mm (.12" x .74")
	OLD STYLE 	SFV-DRK45AR STV-DRK45AR SCV-DRK45AR	Knife 45° Long Reach *Original Easy Access Geometry* 4.5mm x 18.7mm (.18" x .74")

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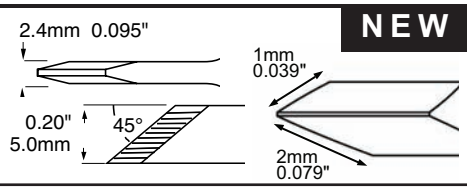
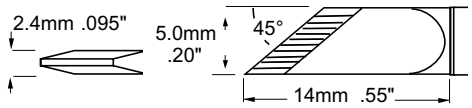
OKi Tips

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

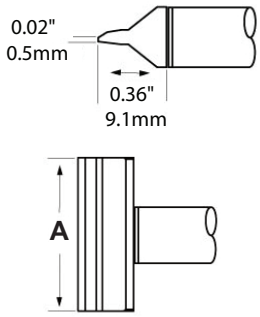
KNIFE

	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



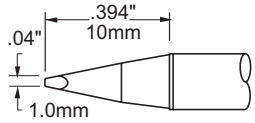
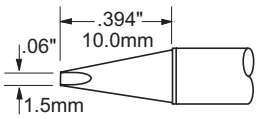
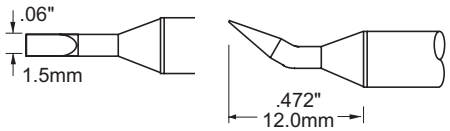
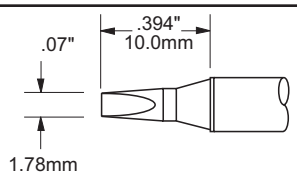
	A
CFV-BL100 CTV-BL100 CCV-BL100	10mm (.40")
CFV-BL250 CTV-BL250 CCV-BL250	25mm (1")
CFV-BL350 CTV-BL350 CCV-BL350	35mm (1.4")
CFV-BL400 CTV-BL400 CCV-BL400	40mm (1.6")
CFV-BL500 CTV-BL500 CCV-BL500	50mm (2")

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

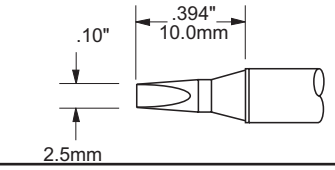
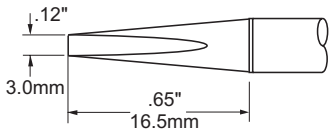
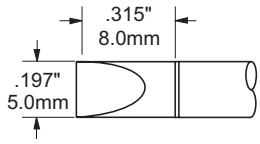
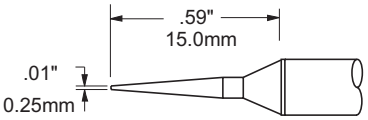
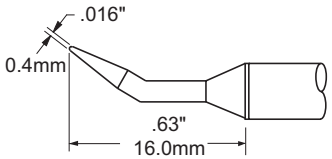
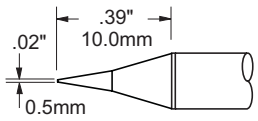
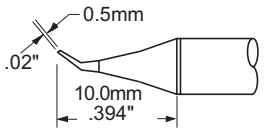
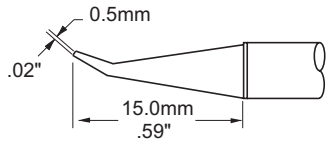
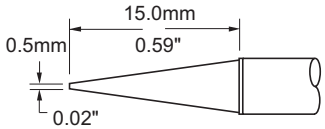
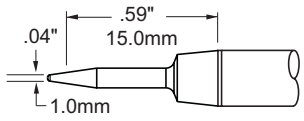
PHT Soldering Tips

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

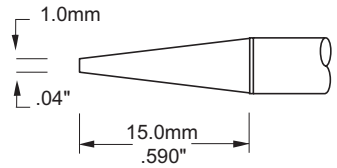
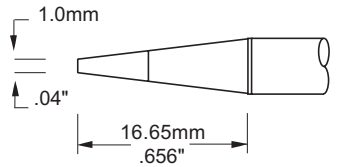
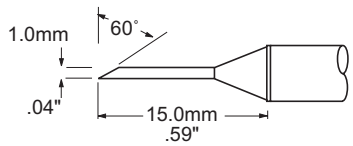
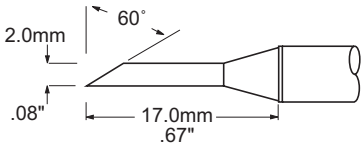
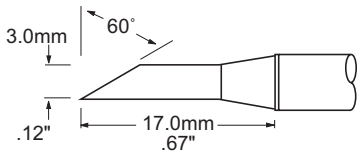
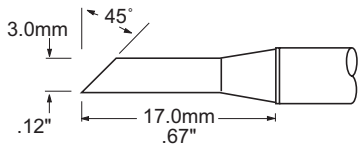
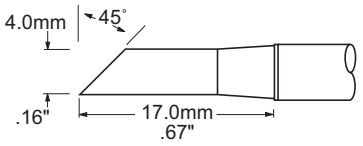
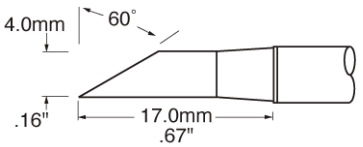
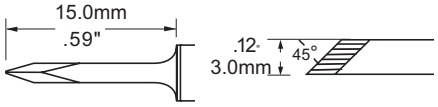
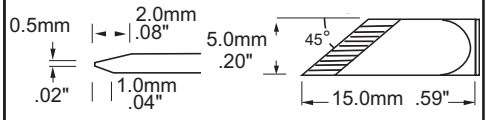
CHISEL

	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

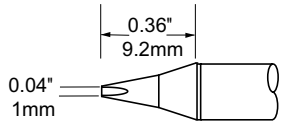
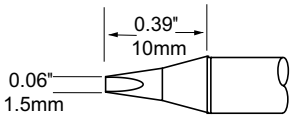
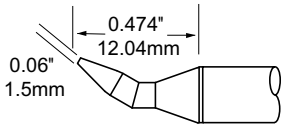
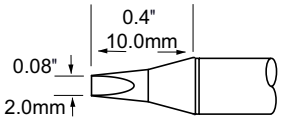
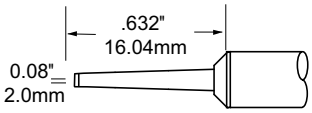
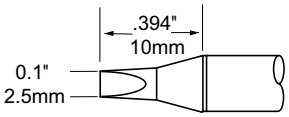
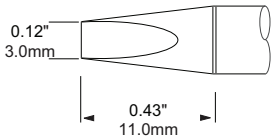
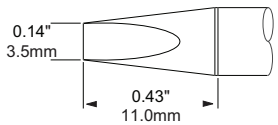
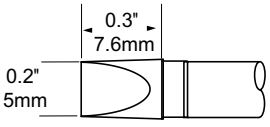
PHT Soldering Tips	Compatible with: PS-800, PS-800E and PS-900 Systems and PS-CA1 Coil Assembly	
CHISEL		
	PHT-751355 PHT-651355	Chisel 30° 2.5mm x 10mm (.10" x .394")
	PHT-751367 PHT-651367	Chisel 30° Long Reach 3.0mm x 16.5mm (.12" x .65")
	PHT-751384 PHT-651384	Chisel 30° 3.0mm x 8mm (.12" x .315")
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")

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

	PHT Soldering Tips	Compatible with: PS-800, PS-800E and PS-900 Systems and PS-CA1 Coil Assembly	
CONICAL		PHT-753067 PHT-653067	Conical Long Reach 1.0mm x 15mm (.04" x .59")
		PHT-753077 PHT-653077	Conical Long Reach 1.0mm x 16.6mm (.04" x .656")
HOOF		PHT-754627 PHT-654627	Mini Hoof 60° 1.0mm x 15mm (.04" x.59")
		PHT-754667 PHT-654667	Hoof 60° 2.0mm x 17mm (.08" x .67")
		PHT-754687 PHT-654687	Hoof 60° 3.0mm x 17mm (.12" x .67")
		PHT-754487F PHT-654487F	Hoof 45° *F = Face Only* 3.0mm x 17mm (.12" x .67")
		PHT-654497	Hoof 45° 4.00mm x 17mm (.16" x .67")
		PHT-654697	Hoof 60° 4.00mm x 17mm (.16" x .67")
KNIFE		PHT-755437 PHT-655437	Knife 45° 4.5mm x 15mm (.18" x .59")
		PHT-755477 PHT-655477	Knife 45° 5.0mmx 15mm (.20"x .59")

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

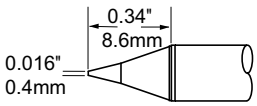
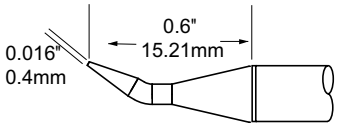
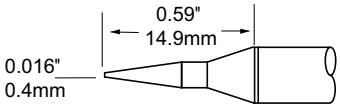
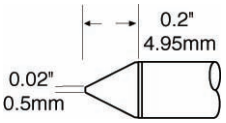
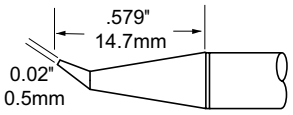
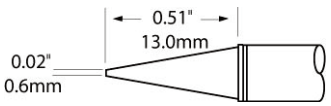
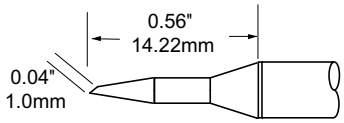
CHISEL

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

SxP Soldering & Rework Cartridges

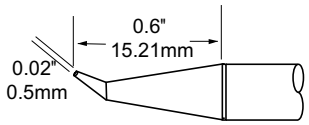
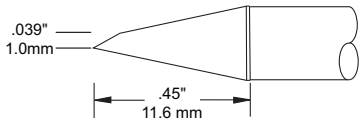
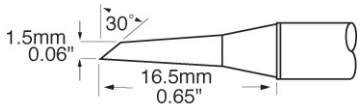
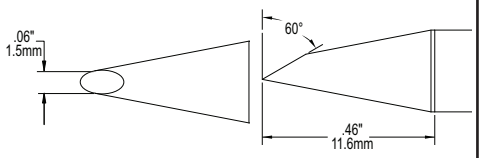
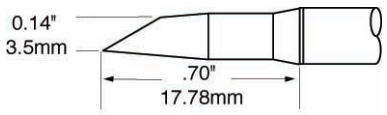
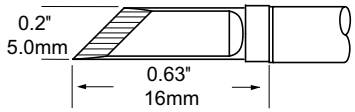
Compatible with: MFR-1110, MFR-1161, MFR-2211, MFR-2241 Systems and MFR-H1-SC hand-piece

CONICAL		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

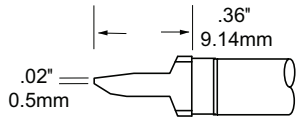
HOOF		SFP-DRH05 STP-DRH05 SCP-DRH05	Hoof 0.5mm x 15.21mm (.02" x .6")
		SFP-DRH610 STP-DRH610 SCP-DRH610	Hoof 1.0mm x 11.6mm (.04" x .45")
		SFP-DRH15 STP-DRH15 SCP-DRH15	Hoof 15° 1.5mm x 16.5mm (.06" x .65")
		SFP-DRH615 STP-DRH615 SCP-DRH615	Hoof 60° 1.5mm x 11.6mm (.06" x .46")
		SFP-DRH35 STP-DRH35 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")

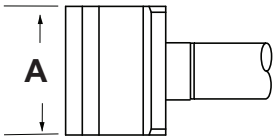
F = FR4 / Fiber Glass, for most standard applications T = Temperature Sensitive C = Ceramic for high thermal demand applications

RxP Rework Cartridges

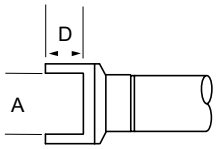
Compatible with: MFR-1110, MFR-1161, MFR-2211, MFR-2241 Systems and MFR-H1-SC hand-piece
All dimensions shown are in mm (inches)

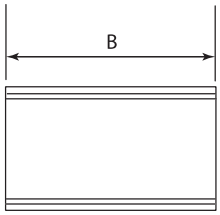
BLADE



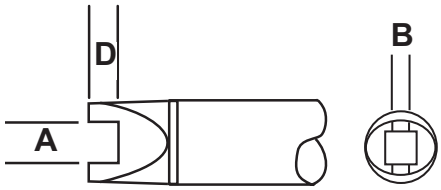


TUNNEL





SLOT



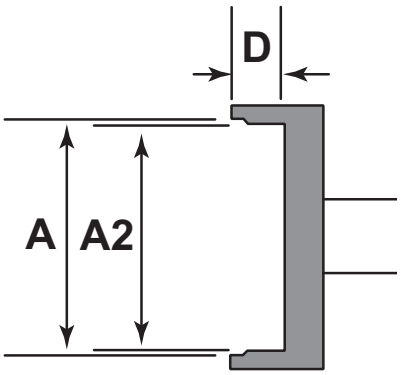
	A	B	D	SMT TYPE
RFP-BL1 RCP-BL1	10 (0.41)	-	-	-
RFP-BL2 RCP-BL2	15.6 (0.62)	-	-	-
RFP-BL3 RCP-BL2	22.1 (0.87)	-	-	-
RFP-DL1 RCP-DL1	5.18 (0.204)	4.32 (0.17)	3.22 (0.127)	Tunnel SOIC-8
RFP-DL2 RCP-DL2	5.18 (0.204)	4.32 (0.17)	2.29 (.09)	Tunnel SOIC-14-16
RFP-DL3 RCP-DL3	6.86 (.270)	11.15 (0.44)	2.29 (.09)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

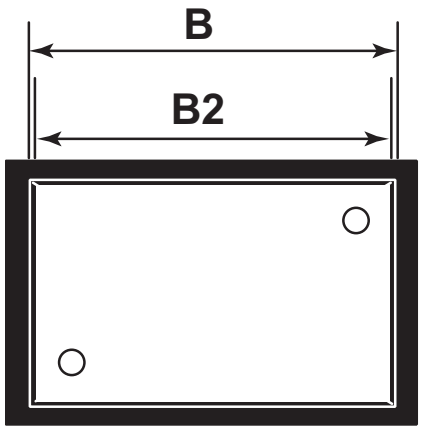
F = FR4 / Fiber Glass, for most standard applications C = Ceramic for high thermal demand applications.

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





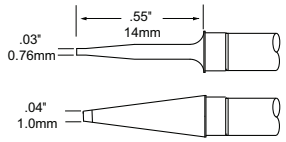
	A	A2	D	B	B2	SMT TYPE
RFP-QD4 RCP-QD4	12.70 (.500)	11.43 (.450)	3.81 (.150)	15.24 (.600)	13.97 (.550)	PLCC 32
RFP-QD6 RCP-QD6	17.78 (.700)	16.76 (.660)	3.81 (.150)	17.78 (.700)	16.76 (.660)	PLCC 44
RFP-QD7 RCP-QD7	25.27 (.995)	24.38 (.960)	5.59 (.220)	25.27 (.995)	24.38 (.960)	PLCC 68
RFP-QD10 RCP-QD10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

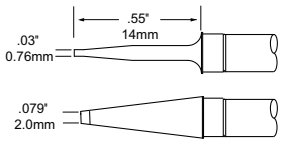
TxP Tweezer Cartridges

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

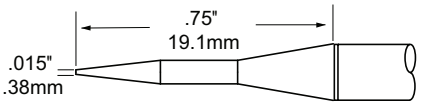
BLADE



TFP-BLP1 TTP-BLP1 TCP-BLP1	1.0mm x 14mm (.04" x .55")

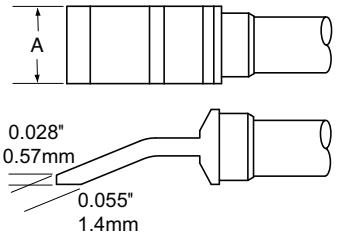


TFP-BLP2 TTP-BLP2 TCP-BLP2	2.0mm x 14mm (.08" x .55")



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")

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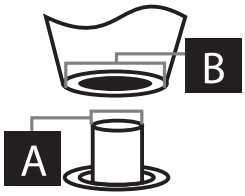
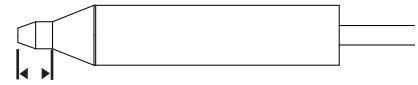
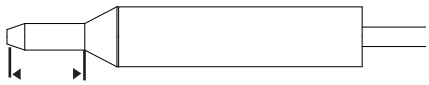
DxP Desoldering Tips

Compatible with: MFR-DSX, MFR-DSI, MFR-SDX, MFR-SDI Systems and MFR-HDS hand-piece
All dimensions shown are in mm (inches)





Standard



Long Reach

	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?

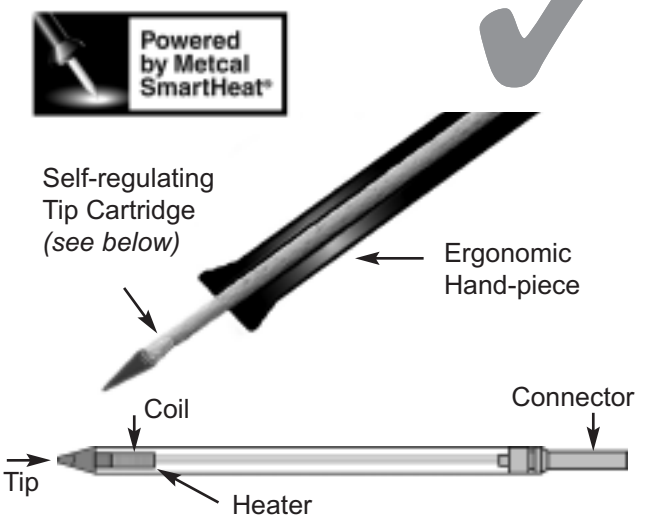
SmartHeat® Technology is unique in that it senses the specific thermal demand directly at the solder pad and delivers the precise quantity and flow of thermal energy during both flux activation and intermetallic bonding phases without any adjustment and calibration. SmartHeat® is radically different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

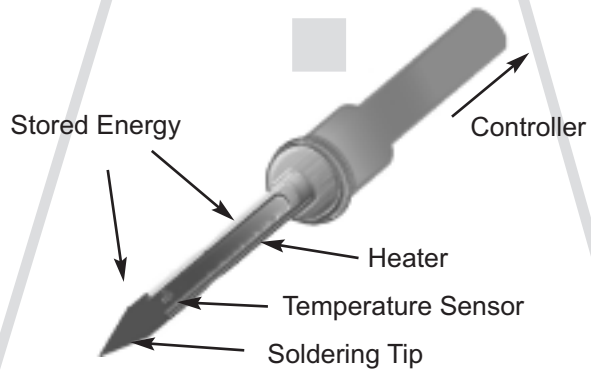
SmartHeat® Soldering Technology = Variable Power / Fixed Temperature

- 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
	METCAL		
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
	OKI		
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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