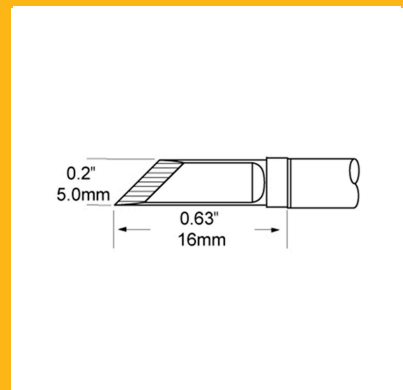
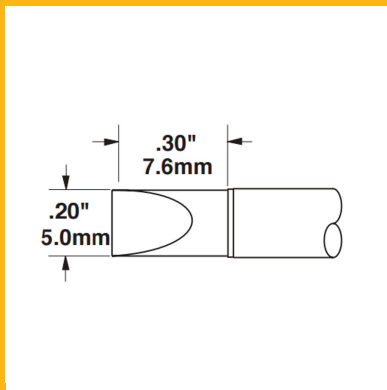
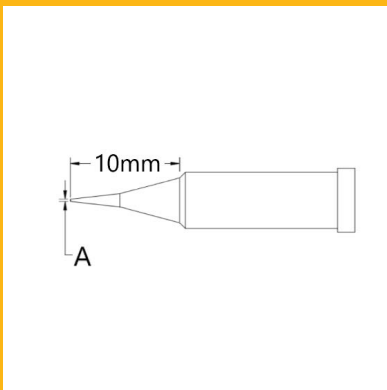
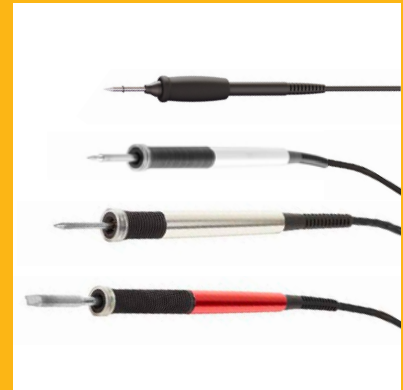
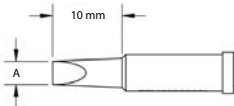
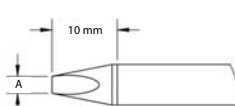
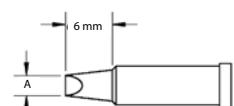
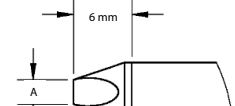
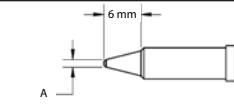
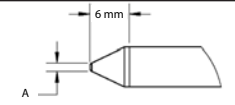
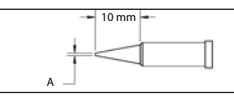
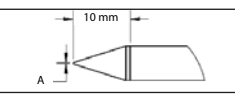
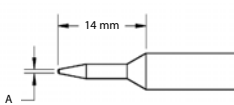
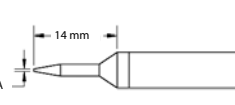
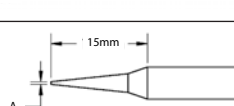
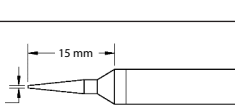
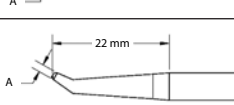
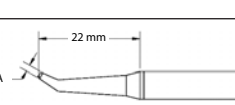
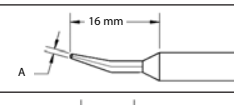
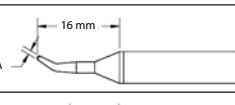
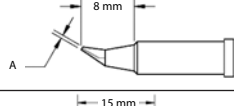
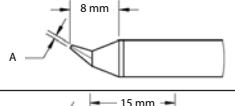
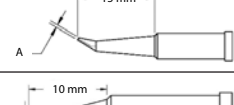
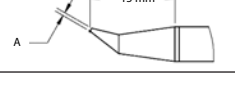
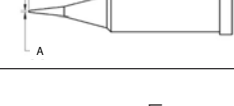




Soldering Cartridge & Tip Guide

Table of Contents

<u>GT Tips & Cartridges</u>	<u>3</u>
<u>CVC & STTC Cartridges</u>	<u>5</u>
<u>HCV & HTC High Thermal Demand Cartridges</u>	<u>8</u>
<u>SMC & SMTC Rework Cartridges</u>	<u>10</u>
<u>UFC & UFTC UltraFine Cartridges</u>	<u>12</u>
<u>PTC & PTTC Tweezer Cartridges</u>	<u>14</u>
<u>DSC & STDC Desolder Cartridges</u>	<u>15</u>
<u>MFTC MicroFine Cartridges</u>	<u>16</u>
<u>MFT MicroFine Tweezer Cartridges</u>	<u>17</u>
<u>STV / SFV / SCV Soldering Tips</u>	<u>18</u>
<u>CTV / CFV / CCV Blade Tips</u>	<u>19</u>
<u>STP / SFP / SCP Tips</u>	<u>20</u>
<u>RFP / RCP Rework Cartridges</u>	<u>21</u>
<u>TTP / TFP / TCP Tweezer Cartridges</u>	<u>22</u>
<u>DTP / DFP / DCP Desoldering Cartridges</u>	<u>22</u>
<u>SSC Cartridges</u>	<u>23</u>

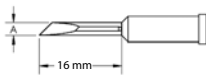
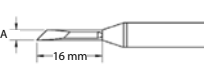
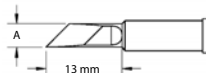
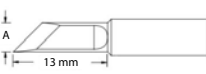
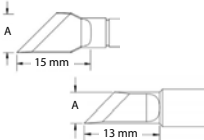
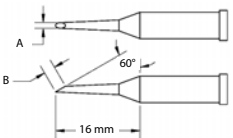
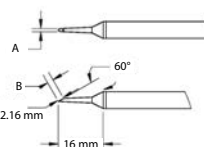
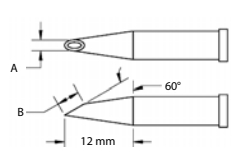
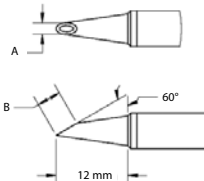
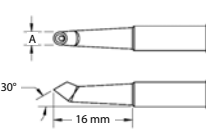
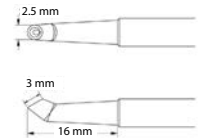
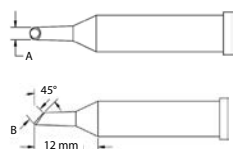
Chisels					
GT4	GT6/GTC	GT4 - Tip	GT6 - Tip	GTC - Cartridge	Dimension A x Length
		GT4-CH0010S	GT6-CH0010S	GTC-CH0010S	1.0 mm x 10.0 mm
		GT4-CH0014S	GT6-CH0014S	GTC-CH0014S	1.4 mm x 10.0 mm
		GT4-CH0018S	GT6-CH0018S	GTC-CH0018S	1.8 mm x 10.0 mm
		GT4-CH0025S	GT6-CH0025S	GTC-CH0025S	2.5 mm x 10.0 mm
		GT4-CH0032S	GT6-CH0032S	GTC-CH0032S	3.2 mm x 10.0 mm
		GT4-CH0040S	GT6-CH0040S	GTC-CH0040S	4.0 mm x 10.0 mm
			GT6-CH0050S	GTC-CH0050S	5.0 mm x 10.0 mm
			GT6-CH0060S	GTC-CH0060S	6.0 mm x 10.0 mm
		GT4-CH0010P	GT6-CH0010P	GTC-CH0010P	Power, 1.0 mm x 10.0 mm
		GT4-CH0014P	GT6-CH0014P	GTC-CH0014P	Power, 1.4 mm x 10.0 mm
		GT4-CH0018P	GT6-CH0018P	GTC-CH0018P	Power, 1.8 mm x 10.0 mm
		GT4-CH0025P	GT6-CH0025P	GTC-CH0025P	Power, 2.5 mm x 10.0 mm
		GT4-CH0032P	GT6-CH0032P	GTC-CH0032P	Power, 3.2 mm x 10.0 mm
		GT4-CH0040P	GT6-CH0040P	GTC-CH0040P	Power, 4.0 mm x 10.0 mm
			GT6-CH0050P	GTC-CH0050P	Power, 5.0 mm x 10.0 mm
			GT6-CH0060S	GTC-CH0060P	Power, 6.0 mm x 10.0 mm
				GTC-CH0070P	Power, 7.0 mm x 10.0 mm
Conicals					
		GT4-CN0005P	GT6-CN0005P	GTC-CN0005P	Power, (Ø x L) 0.5 mm x 6.0 mm
		GT4-CN0010P	GT6-CN0010P	GTC-CN0010P	Power, (Ø x L) 1.0 mm x 6.0 mm
		GT4-CN0005S	GT6-CN0005S	GTC-CN0005S	(Ø x L) 0.5 mm x 10.0 mm
		GT4-CN0005A	GT6-CN0005A	GTC-CN0005A	Access, (Ø x L) 0.5 mm x 14.0 mm
		GT4-CN0010A	GT6-CN0010A	GTC-CN0010A	Access, (Ø x L) 1.0 mm x 14.0 mm
		GT4-CN1502A	GT6-CN1502A	GTC-CN1502A	Sharp, (Ø x L) 0.2 mm x 15.0 mm
		GT4-CN1505A	GT6-CN1505A	GTC-CN1505A	Sharp, (Ø x L) 0.5 mm x 15.0 mm
		GT4-CN2213R	GT6-CN2213R	GTC-CN2213R	Bent, Reach, (Ø x L) 1.3 mm x 22.0 mm
		GT4-CN1608R	GT6-CN1608R	GTC-CN1608R	Bent, Access, (Ø x L) 0.8 mm x 16.0 mm
		GT4-CN0002R	GT6-CN0002R	GTC-CN0002R	Bent, (Ø x L) 0.2 mm x 8.0 mm
		GT4-CN0004R	GT6-CN0004R	GTC-CN0004R	Bent, (Ø x L) 0.4 mm x 8.0 mm
		GT4-CN1505R	GT6-CN1505R	GTC-CN1505R	Bent, Reach (Ø x L) 0.5 mm x 15.0 mm
		GT4-CN0002S	--	--	Sharp (Ø x L) 0.2 mm x 10.0 mm

For our complete selection of tips & cartridges, visit www.metcal.com

Hand Soldering, Desoldering, & Rework

GT Tips & Cartridges



Knife					
GT4	GT6/GTC	GT4 - Tip	GT6 - Tip	GTC - Cartridge	Dimension A x Length
		GT4-KN0025S	GT6-KN0025S	GTC-KN0025S	2.5 mm x 16.0 mm, 45°
		GT4-KN0040S	--	--	4.0 mm x 16.0 mm, 45°
		--	GT6-KN0050S	GTC-KN0050S	5.0 mm x 16.0 mm, 45°
		GT4-KN0025P	GT4-KN0025P	GTC-KN0025P	Power, 2.5 mm x 13.0 mm, 45°
		GT4-KN0040P	--	--	Power, 4.0 mm x 13.0 mm, 45°
		--	GT4-KN0050P	GTC-KN0050P	Power, 5.0 mm x 13.0 mm, 45°
		--	--	GTC-KN0080P	Power, 5.0 mm x 13.0 mm, 45°
		GT4-KN0040PP	--	--	Xtra Power, 4.0 mm x 13.0 mm, 45°
		--	GT6-KN0050PP	GTC-KN0050PP	Xtra Power, 5.0 mm x 13.0 mm, 45°
		--	--	GTC-KN0080PP	Xtra Power, 8.0 mm x 13.0 mm, 45°
Hoof					
		GT4-HF6010S	GT6-HF6010S	GTC-HF6010S	(Bevel/L) 60° x 2.0, (Ø x L) 1.0 mm x 16.0 mm
		GT4-HF6015S	GT6-HF6015S	GTC-HF6015S	(Bevel/L) 60° x 3.0, (Ø x L) 1.5 mm x 16.0 mm
		GT4-HF6020S	GT6-HF6020S	GTC-HF6020S	(Bevel/L) 60° x 4.0, (Ø x L) 2.0 mm x 16.0 mm
		GT4-HF6030S	GT6-HF6030S	GTC-HF6030S	(Bevel/L) 60° x 6.0, (Ø x L) 3.0 mm x 16.0 mm
		--	GT6-HF6040S	GTC-HF6040S	(Bevel/L) 60° x 8.0, (Ø x L) 4.0 mm x 16.0 mm
		GT4-HF6010V	GT6-HF6010V	GTC-HF6010V	Concave, (Bevel/L) 60° x 2.1 mm (Ø x L) 1.0 mm x 12.0 mm
		GT4-HF6015V	GT6-HF6015V	GTC-HF6015V	Concave, (Bevel/L) 60° x 3.1 mm (Ø x L) 1.5 mm x 12.0 mm
		GT4-HF6020V	GT6-HF6020V	GTC-HF6020V	Concave, (Bevel/L) 60° x 4.1 mm (Ø x L) 2.0 mm x 12.0 mm
		GT4-HF6030V	GT6-HF6030V	GTC-HF6030V	Concave, (Bevel/L) 60° x 6.1 mm (Ø x L) 3.0 mm x 12.0 mm
		GT4-HF3025V	GT6-HF3025V	GTC-HF3025V	Bent 30°, (Bevel/L) 30° x 3.0 mm (Ø x L) 2.5 mm x 16.0 mm
		GT4-HF4521S	--	--	(Bevel/L) 45° x 2.5, (Ø x L) 2.1 mm x 12.0 mm
		GT4-HF4532S	--	--	(Bevel/L) 45° x 4.0, (Ø x L) 3.2 mm x 12.0 mm

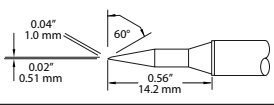
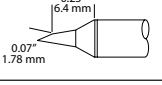
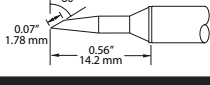
For our complete selection of tips & cartridges, visit www.metcal.com

Temperature Guide & Tip Specifications CV & MX Series

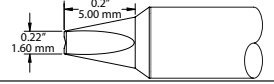
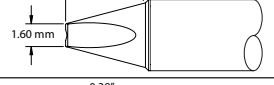
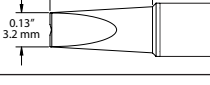
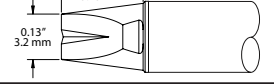
Max Temperature	CV-Series	MX-Series	Application
575°F/302°C	CVC-5xxx	STTC-5xx	Temperature Sensitive
675°F/357°C	CVC-6xxx	STTC-0xx	
775°F/413°C	CVC-7xxx	STTC-1xx	
875°F/468°C	CVC-8xxx	STTC-8xxV1	Ceramic and High Thermal Demand
950°F/510°C	CVC-9xxx	STTC-8xx	
Compatible with:	Systems: MX-500, MX-5000, MX-5200, CV-500, CV-5200 Handpieces: MX-RM3E, MX-RM6E, MX-H1AV, MX-H7-SF, CV-H1-AV, CV-H7-AV	Systems: MX-500, MX-5000, MX-5200 Handpieces: MX-RM3E, MX-RM6E, MX-H1-AV, MX-H7-SF	

Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge (up to 15°C lower)

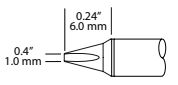
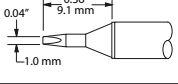
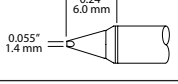
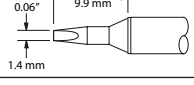
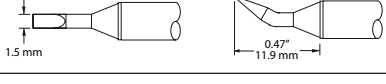
Bevel Cartridges

	CVC-5BV6005A	STTC-546	Long Reach, (Bevel/L) 60° x 1 mm, (ø x L) 0.50 mm x 14.2 mm
	CVC-6BV6005A	STTC-046	
	CVC-7BV6005A	STTC-146	
	CVC-8BV6005A		
	CVC-9BV6005A	STTC-846	
	CVC-5BV6018P		(Bevel/L) 60° x 1.78 mm, optimized geometry for best thermal performance (ø x L) 0.89 mm x 6.6 mm
	CVC-6BV6018P		
	CVC-7BV6018P	STTC-147P	
	CVC-8BV6018P		
	CVC-9BV6018P	STTC-847P	
	CVC-5BV6018R	STTC-547	Long Reach, (Bevel/L) 60° x 1.78 mm, (ø x L) 0.89 mm x 14.2 mm
	CVC-6BV6018R	STTC-047	
	CVC-7BV6018R	STTC-147	
	CVC-8BV6018R		
	CVC-9BV6018R	STTC-847	

V-Groove Cartridges

	CVC-5VG0016A		V-Groove Chisel, 1.6 mm
	CVC-6VG0016A		
	CVC-7VG0016A		
	CVC-8VG0016A		
	CVC-9VG0016A		
	CVC-5VG0016P		V-Groove Chisel, Power, 1.6 mm
	CVC-6VG0016P		
	CVC-7VG0016P		
	CVC-8VG0016P		
	CVC-9VG0016P		
	CVC-5VG0032A		V-Groove Chisel, 3.2 mm
	CVC-6VG0032A		
	CVC-7VG0032A		
	CVC-8VG0032A		
	CVC-9VG0032A		
	CVC-5VG0032P		V-Groove Chisel, Power 3.2 mm
	CVC-6VG0032P		
	CVC-7VG0032P		
	CVC-8VG0032P		
	CVC-9VG0032P		

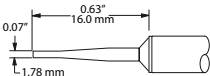
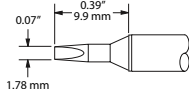
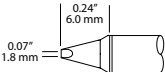
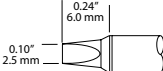
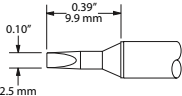
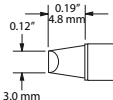
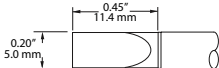
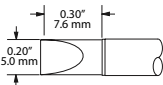
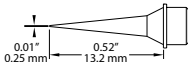
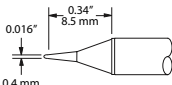
Chisel Cartridges

	CVC-5CH0010P		Optimized geometry for best thermal performance, (W x L) 1.0 mm x 6.0 mm
	CVC-6CH0010P	STTC-025P	
	CVC-7CH0010P	STTC-125P	
	CVC-8CH0010P	STTC-825PV1	
	CVC-9CH0010P	STTC-825P	
	CVC-5CH0010S	STTC-525	(W x L) 1.0 mm x 9.1 mm
	CVC-6CH0010S	STTC-025	
	CVC-7CH0010S	STTC-125	
	CVC-8CH0010S	STTC-825V1	
	CVC-9CH0010S	STTC-825	
	CVC-5CH0014P		Optimized geometry for best thermal performance, (W x L) 1.4 mm x 6.0 mm
	CVC-6CH0014P		
	CVC-7CH0014P	STTC-138P	
	CVC-8CH0014P	STTC-838PV1	
	CVC-9CH0014P	STTC-838P	
	CVC-5CH0014S	STTC-538	(W x L) 1.4 mm x 9.9 mm
	CVC-6CH0014S	STTC-038	
	CVC-7CH0014S	STTC-138	
	CVC-8CH0014S	STTC-838V1	
	CVC-9CH0014S	STTC-838	
	CVC-5CH0015R	STTC-599	Bent 30°, for work under a microscope, (W x L) 1.5 mm x 11.9 mm
	CVC-6CH0015R	STTC-099	
	CVC-7CH0015R	STTC-199	
	CVC-8CH0015R		
	CVC-9CH0015R	STTC-899	

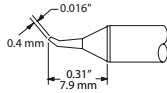
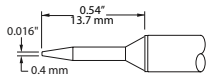
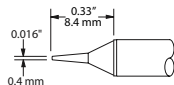
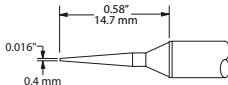
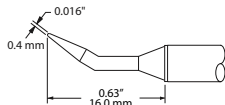
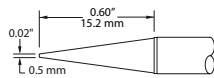
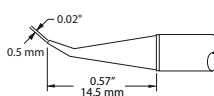
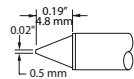
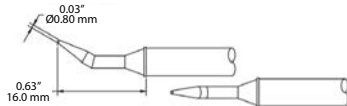
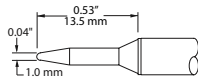
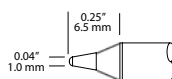
Hand Soldering, Desoldering, & Rework

CVC & STTC Cartridges



Chisel Cartridges (continued)			
	CVC-5CH0018A	STTC-542	Long Reach, Flat, (W x L) 1.78 mm x 16.0 mm
	CVC-6CH0018A	STTC-042	
	CVC-7CH0018A	STTC-142	
	CVC-8CH0018A		
	CVC-9CH0018A	STTC-842	
	CVC-5CH0018S	STTC-537	(W x L) 1.78 mm x 9.9 mm
	CVC-6CH0018S	STTC-037	
	CVC-7CH0018S	STTC-137	
	CVC-8CH0018S	STTC-837V1	
	CVC-9CH0018S	STTC-837	
	CVC-5CH0018P		Optimized geometry for best thermal performance, (W x L) 1.8 mm x 6.0 mm
	CVC-6CH0018P		
	CVC-7CH0018P	STTC-137P	
	CVC-8CH0018P	STTC-837PV1	
	CVC-9CH0018P	STTC-837P	
	CVC-5CH0018R	STTC-598	Bent 30°, for work under a microscope, (W x L) 1.8 mm x 10.0 mm
	CVC-6CH0018R	STTC-098	
	CVC-7CH0018R	STTC-198	
	CVC-8CH0018R		
	CVC-9CH0018R	STTC-898	
	CVC-5CH0025P		Optimized geometry for best thermal performance, (W x L) 2.5 mm x 6.0 mm
	CVC-6CH0025P		
	CVC-7CH0025P	STTC-136P	
	CVC-8CH0025P	STTC-836PV1	
	CVC-9CH0025P	STTC-836P	
	CVC-5CH0025S	STTC-536	(W x L) 2.5 mm x 9.9 mm
	CVC-6CH0025S	STTC-036	
	CVC-7CH0025S	STTC-136	
	CVC-8CH0025S	STTC-836V1	
	CVC-9CH0025S	STTC-836	
	CVC-5CH0030S	STTC-513	Optimized geometry for best thermal performance (W x L) 3.0 mm x 4.8 mm
	CVC-6CH0030S	STTC-013	
	CVC-7CH0030S	STTC-113	
	CVC-8CH0030S		
	CVC-9CH0030S	STTC-813	
	CVC-5CH0050A	STTC-565	Long Reach, (W x L) 5.0 mm x 11.4 mm
	CVC-6CH0050A	STTC-065	
	CVC-7CH0050A	STTC-165	
	CVC-8CH0050A		
	CVC-9CH0050A	STTC-865	
	CVC-5CH0050S	STTC-517	(W x L) 5.0 mm x 7.6 mm
	CVC-6CH0050S	STTC-017	
	CVC-7CH0050S	STTC-117	
	CVC-8CH0050S	STTC-817V1	
	CVC-9CH0050S	STTC-817	
Conical Cartridges			
	CVC-5CN0003A	STTC-590	Fine, Long Reach, for work in tight spaces, (ø x L) 0.25 mm x 13.2 mm
	CVC-6CN0003A	STTC-090	
	CVC-7CN0003A	STTC-190	
	CVC-8CN0003A		
	CVC-9CN0003A	STTC-890	
	CVC-5CN0004P		Sharp, optimized geometry for best thermal performance, (ø x L) 0.4 mm x 8.5 mm
	CVC-6CN0004P		
	CVC-7CN0004P	STTC-145P	
	CVC-8CN0004P		
	CVC-9CN0004P	STTC-845P	

For our complete selection of tips & cartridges, visit www.metcal.com

Conical Cartridges (continued)			
	CVC-5CN0004R	STTC-526	Sharp, Bent 30°, for work under a microscope, (ø x L) 0.4 mm x 7.9 mm
	CVC-6CN0004R	STTC-026	
	CVC-7CN0004R	STTC-126	
	CVC-8CN0004R	STTC-826V1	
	CVC-9CN0004R	STTC-826	
	CVC-5CN1304A	STTC-506	Sharp, Long Reach, (ø x L) 0.4 mm x 13.7 mm
	CVC-6CN1304A	STTC-006	
	CVC-7CN1304A	STTC-106	
	CVC-8CN1304A		
	CVC-9CN1304A	STTC-806	
	CVC-5CN1404S	STTC-522	Sharp, (ø x L) 0.4 mm x 8.4 mm
	CVC-6CN1404S	STTC-022	
	CVC-7CN1404S	STTC-122	
	CVC-8CN1404S		
	CVC-9CN1404S	STTC-822	
	CVC-5CN1504A	STTC-545	Sharp, Long Reach, (ø x L) 0.4 mm x 14.7 mm
	CVC-6CN1504A	STTC-045	
	CVC-7CN1504A	STTC-145	
	CVC-8CN1504A		
	CVC-9CN1504A	STTC-845	
	CVC-5CN1604R		Sharp, Long Reach, Bent 30°, for work under a microscope, (ø x L) 0.4 mm x 16.0 mm
	CVC-6CN1604R		
	CVC-7CN1604R		
	CVC-8CN1604R		
	CVC-9CN1604R		
	CVC-5CN0005A	STTC-543	Sharp, Long Reach, (ø x L) 0.5 mm x 15.2 mm
	CVC-6CN0005A	STTC-043	
	CVC-7CN0005A	STTC-143	
	CVC-8CN0005A		
	CVC-9CN0005A	STTC-843	
	CVC-5CN0005R	STTC-544	Sharp, Long Reach, Bent 30°, for work under a microscope, (ø x L) 0.5 x 14.5 mm
	CVC-6CN0005R	STTC-044	
	CVC-7CN0005R	STTC-144	
	CVC-8CN0005R		
	CVC-9CN0005R	STTC-844	
	CVC-5CN4805S	STTC-516	Blunt, optimized geometry for best thermal performance, (ø x L) 0.5 mm x 4.8 mm
	CVC-6CN4805S	STTC-016	
	CVC-7CN4805S	STTC-116	
	CVC-8CN4805S		
	CVC-9CN4805S	STTC-816	
	CVC-5CN1608R	STTC-540	Sharp, Long Reach, Bent 30°, for work under a microscope, (ø x L) 0.8 mm x 16.0 mm
	CVC-6CN1608R	STTC-040	
	CVC-7CN1608R	STTC-140	
	CVC-8CN1608R	STTC-840V1	
	CVC-9CN1608R	STTC-840	
	CVC-5CN0010A	STTC-501	Long Reach, (ø x L) 1.0 mm x 13.5 mm
	CVC-6CN0010A	STTC-001	
	CVC-7CN0010A	STTC-101	
	CVC-8CN0010A		
	CVC-9CN0010A	STTC-801	
	CVC-5CN0010P		Optimized geometry for best thermal performance, (ø x L) 1.0 mm x 6.5 mm
	CVC-6CN0010P		
	CVC-7CN0010P	STTC-101P	
	CVC-8CN0010P		
	CVC-9CN0010P	STTC-801P	

For our complete selection of tips & cartridges, visit www.metcal.com

Hand Soldering, Desoldering, & Rework

HCV & HTC High Thermal Demand Cartridges



Temperature Guide & Tip Specifications HCV/HTC Series

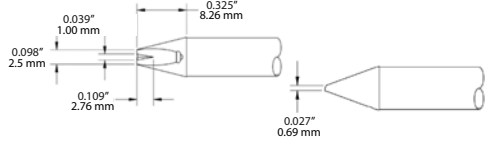
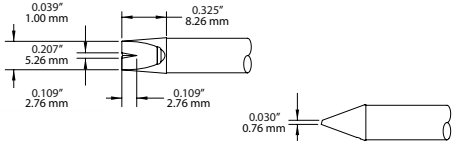
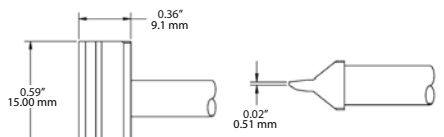
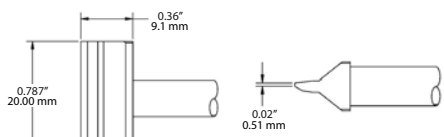
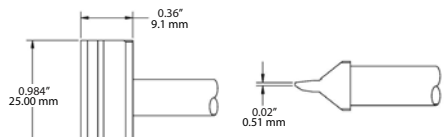
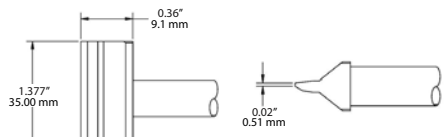
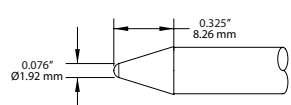
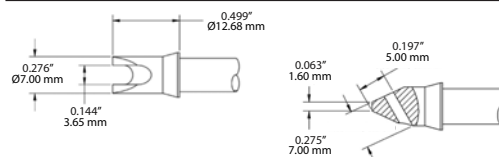
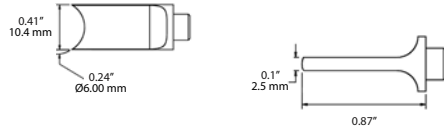
Max Temperature	CV-Series	MX-Series	Application
775°F/413°C	HCV-7	HTC-7	Most Standard
875°F/468°C	HCV-8	HTC-8	Ceramic and High Thermal Demand
950°F/510°C	HCV-9	HTC-9	
Compatible with:	Systems: MX-5000, MX-5200, CV-5200 Handpieces: MX-H6-HTD, CV-H6-HTD, CV-H7-HTD	Systems: MX-5000, MX-5200 Handpieces: MX-H6-HTD	

Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge.

High Thermal Demand - Chisels

	HCV-7CH0015S	—	Chisel, (W x L) 1.15 mm x 10.4 mm
	HCV-8CH0015S		
	HCV-9CH0015S		
	HCV-7CH0018S	—	Chisel, (W x L) 1.85 mm x 10.0 mm
	HCV-8CH0018S		
	HCV-9CH0018S		
	HCV-7CH0025S	HTC-7CH0025S	Chisel, (W x L) 2.5 mm x 8.0 mm
	HCV-8CH0025S	HTC-8CH0025S	
	HCV-9CH0025S	HTC-9CH0025S	
	HCV-7CH0035S	—	Chisel, (W x L) 3.5 mm x 10.4 mm
	HCV-8CH0035S		
	HCV-9CH0035S		
	HCV-7CH0053S	HTC-7CH0053S	Chisel, (W x L) 5.3 mm x 8.3 mm
	HCV-8CH0053S	HTC-8CH0053S	
	HCV-9CH0053S	HTC-9CH0053S	
	HCV-7CH0080S	—	Chisel, (W x L) 8.0 mm x 10.8 mm
	HCV-8CH0080S		
	HCV-9CH0080S		
	HCV-7CH0100S	—	Chisel, (W x L) 10.0 mm x 10.8 mm
	HCV-8CH0100S		
	HCV-9CH0100S		

For our complete selection of tips & cartridges, visit www.metcal.com

High Thermal Demand - V Groove Chisels			
	HCV-7VG0025S	—	V-Groove Chisel for pin soldering, Groove (W x L) 1.0 mm x 2.8 mm, (W x L) 2.5 mm x 8.3 mm
	HCV-8VG0025S		
	HCV-9VG0025S		
	HCV-7VG0053S	HTC-7VG0053S	V-Groove Chisel for pin soldering, Groove (W x L) 1.0 mm x 4 mm, (W x L) 5.3 mm x 8.3 mm
	HCV-8VG0053S	HTC-8VG0053S	
	HCV-9VG0053S	HTC-9VG0053S	
High Thermal Demand - Blades			
	HCV-7BL0015S	—	Blade, (W x L) 15.0 mm x 9.1 mm
	HCV-8BL0015S		
	HCV-9BL0015S		
	HCV-7BL0020S	—	Blade, (W x L) 20.0 mm x 9.1 mm
	HCV-8BL0020S		
	HCV-9BL0020S		
	HCV-7BL0025S	—	Blade, (W x L) 25.0 mm x 9.1 mm
	HCV-8BL0025S		
	HCV-9BL0025S		
	HCV-7BL0035S	—	Blade, (W x L) 35.0 mm x 9.1 mm
	HCV-8BL0035S		
	HCV-9BL0035S		
High Thermal Demand - Specials			
	HCV-7CN0020S	HTC-7CN0020S	Conical, (ø x L) 2.0 mm x 8.3 mm
	HCV-8CN0020S	HTC-8CN0020S	
	HCV-9CN0020S	HTC-9CN0020S	
	HCV-7SL0070S	—	Slot, 3.7 mm x 7.0 mm
	HCV-8SL0070S		
	HCV-9SL0070S		
	HCV-7BR0010S	—	Barrel, 2.5 mm x 10.4 mm
	HCV-8BR0010S		
	HCV-9BR0010S		

For our complete selection of tips & cartridges, visit www.metcal.com

Hand Soldering, Desoldering, & Rework

SMC & SMTC Rework Cartridges



Temperature Guide & Tip Specifications CV/MX Series

Max Temperature	CV-Series	MX-Series	Application
575°F/302°C	SMC-5xxx	SMTC-5xx	Temperature Sensitive
675°F/357°C	SMC-6xxx	SMTC-0xx	
775°F/413°C	SMC-7xxx	SMTC-1xx	Most Standard
875°F/468°C	SMC-8xxx	SMTC-8xxV1	Ceramic and High Thermal Demand
950°F/510°C	SMC-9xxx	SMTC-8xx	
Compatible with:	Systems: MX-500, MX-5000, MX-5200, CV-500, CV-5200 Handpieces: MX-RM3E, MX-RM6E, CV-HI-AV	Systems: MX-500, MX-5000, MX-5200 Handpieces: MX-RM3E, MX-HI-AV	

Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge (up to 15°C lower)

These tips will provide data via the CV series power supplies, but due to the nature of their application the Connection Validation™ function is not required and therefore not enabled.

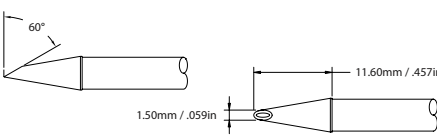
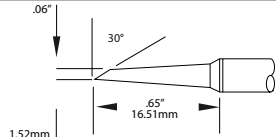
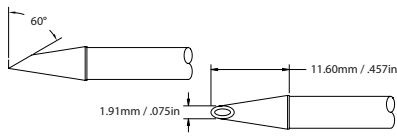
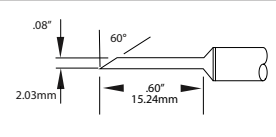
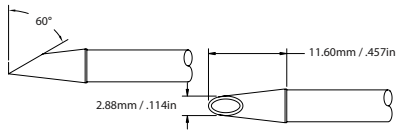
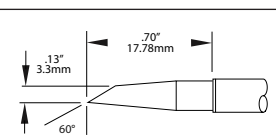
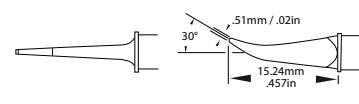
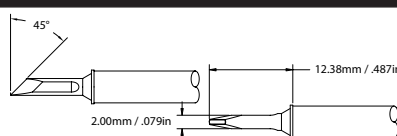
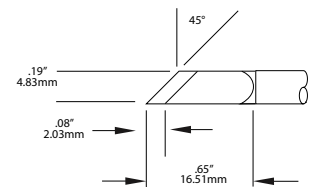
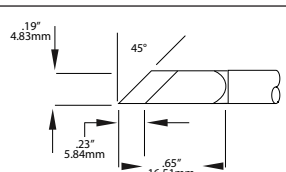
Blades for Rework Applications

	SMC-5BL0010S	SMTC-560	Blade for Pad Clean-Up, A = 10.59 mm H = 9.19 mm
	SMC-6BL0010S	SMTC-060	
	SMC-7BL0010S	SMTC-160	
	SMC-8BL0010S		
	SMC-9BL0010S	SMTC-860	
	SMC-5BL0015H	SMTC-0BL150	Blade for Pad Clean-Up, A = 15 mm H = 9.12 mm
	SMC-6BL0015H	SMTC-1BL150	
	SMC-7BL0015H		
	SMC-8BL0015H	SMTC-8BL150	
	SMC-5BL0016S	SMTC-561	Blade for Pad Clean-Up, A = 15.93 mm H = 9.19 mm
	SMC-6BL0016S	SMTC-061	
	SMC-7BL0016S	SMTC-161	
	SMC-8BL0016S	SMTC-861	
	SMC-5BL0022S	SMTC-562	Blade for Pad Clean-Up, A = 21.01 mm H = 9.19 mm
	SMC-6BL0022S	SMTC-062	
	SMC-7BL0022S	SMTC-162	
	SMC-8BL0022S	SMTC-862	
	SMC-5BL0025H		Blade for Pad Clean-Up, A = 25 mm H = 9.12 mm
	SMC-6BL0025H	SMTC-0BL250	
	SMC-7BL0025H	SMTC-1BL250	
	SMC-8BL0025H	SMTC-8BL250	
	SMC-5BL0035H		Blade for Pad Clean-Up, A = 35 mm H = 9.12 mm
	SMC-6BL0035H	SMTC-0BL350	
	SMC-7BL0035H	SMTC-1BL350	
	SMC-8BL0035H	SMTC-8BL350	

Rework Hoof-Cartridges – For Drag Soldering SOICs/QFPs

	SMC-5HF6009S	SMTC-5175	Micro Hoof, (Bevel/L) 60° x 1.54 mm, (ø x L) 0.77 mm x 11.67 mm
	SMC-6HF6009S	SMTC-0175	
	SMC-7HF6009S	SMTC-1175	
	SMC-8HF6009S		
	SMC-9HF6009S	SMTC-8175	
	SMC-5HF6011S	SMTC-5174	Micro Hoof, (Bevel/L) 60° x 1.5 mm, long reach, (ø x L) 0.75 mm x 16.51 mm
	SMC-6HF6011S	SMTC-0174	
	SMC-7HF6011S	SMTC-1174	
	SMC-8HF6011S		
	SMC-9HF6011S	SMTC-8174	

For our complete selection of tips & cartridges, visit www.metcal.com

Rework Hoof-Cartridges – For Drag Soldering SOICs/QFPs			
	SMC-5HF0015V		Concave Hoof, (Bevel/L) 60° x 3 mm, (ø x L) 1.5 x 11.6 mm
	SMC-6HF0015V	SMTC-0184	
	SMC-7HF0015V	SMTC-1184	
	SMC-8HF0015V		
	SMC-9HF0015V		
	SMC-5HF6015S		Hoof, (Bevel/L) 30° x 1.76 mm, long reach, (ø x L) 1.52 x 16.51 mm
	SMC-6HF6015S	SMTC-0167	
	SMC-7HF6015S	SMTC-1167	
	SMC-8HF6015S		
	SMC-9HF6015S	SMTC-8167	
	SMC-5HF0020V		Concave Hoof, (Bevel/L) 60° x 3.82 mm (ø x L) 1.91 x 11.6 mm
	SMC-6HF0020V	SMTC-0185	
	SMC-7HF0020V	SMTC-1185	
	SMC-8HF0020V		
	SMC-9HF0020V		
	SMC-5HF6020S		Hoof, (Bevel/L) 60° x 4.06 mm, (ø x L) 2.03 x 15.24 mm
	SMC-6HF6020S	SMTC-0169	
	SMC-7HF6020S	SMTC-1169	
	SMC-8HF6020S		
	SMC-9HF6020S	SMTC-8169	
	SMC-5HF0030V		Concave Hoof, (Bevel/L) 60° x 6 mm, (ø x L) 3.0 x 11.6 mm
	SMC-6HF0030V	SMTC-0186	
	SMC-7HF0030V	SMTC-1186	
	SMC-8HF0030V		
	SMC-9HF0030V		
	SMC-5HF6033S	SMTC-5147	Hoof, (Bevel/L) 60° x 6.6 mm, long reach, (ø x L) 3.3 x 17.78 mm
	SMC-6HF6033S	SMTC-0147	
	SMC-7HF6033S	SMTC-1147	
	SMC-8HF6033S		
	SMC-9HF6033S	SMTC-8147	
Special Rework Cartridges			
	SMC-5HK0005S	SMTC-5172	Hook, for fine drag and point-to-point soldering on contacts from J-lead components, Bend 30°, (ø x L) 0.51 x 15.24 mm
	SMC-6HK0005S	SMTC-0172	
	SMC-7HK0005S	SMTC-1172	
	SMC-8HK0005S		
	SMC-9HK0005S	SMTC-8172	
Rework Knife-Cartridges – For Multi-Lead Soldering of PLCCs/SOJs			
	SMC-5KN0025S		Knife, 45° angled, tinned area length 2.03 mm (W x L) 2.0 x 12.38 mm
	SMC-6KN0025S	SMTC-0165	
	SMC-7KN0025S	SMTC-1165	
	SMC-8KN0025S		
	SMC-9KN0025S		
	SMC-5KN0048S	SMTC-5161	Knife, 45° angled, tinned area length 2.03 mm (W x L) 4.83 x 16.51 mm
	SMC-6KN0048S	SMTC-0161	
	SMC-7KN0048S	SMTC-1161	
	SMC-8KN0048S		
	SMC-9KN0048S		
	SMC-5KN0048W	SMTC-5173	Knife, 45° angled, tinned area length 5.84 mm (W x L) 4.83 x 16.51 mm
	SMC-6KN0048W	SMTC-0173	
	SMC-7KN0048W	SMTC-1173	
	SMC-8KN0048W		
	SMC-9KN0048W	SMTC-8173	

For our complete selection of tips & cartridges, visit www.metcal.com

Hand Soldering, Desoldering, & Rework

UFC & UFTC Ultrafine Cartridges



Temperature Guide & Tip Specifications UFC/UFTC Series

Max Temperature	CV-Series	MX-Series	Application
675°F/357°C	UFC-6	UFTC-6	Temperature Sensitive
775°F/413°C	UFC-7	UFTC-7	Most Standard
Compatible with:	Systems: CV-500, CV-5200 Handpieces: CV-H2-UF	Systems: MX-500, MX-5000, MX-5200 Handpieces: MX-H2-UF	

Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge (up to 15°C lower)

Ultra-Fine Chisel Cartridge

	UFC-6CH5106S	UFTC-6CH06	(W x L) 0.6 mm x 5.1 mm
	UFC-7CH5106S	UFTC-7CH06	
	UFC-6CH9006S	UFTC-6CHL06	Long reach, (W x L) 0.6 mm x 9 mm
	UFC-7CH9006S	UFTC-7CHL06	
	UFC-6CH5108S	UFTC-6CH08	(W x L) 0.8 mm x 5.1 mm
	UFC-7CH5108S	UFTC-7CH08	
	UFC-6CH9008S	UFTC-6CHL08	Long reach, (W x L) 0.8 mm x 9 mm
	UFC-7CH9008S	UFTC-7CHL08	
	UFC-6CH5112S	UFTC-6CH12	(W x L) 1.2 mm x 5.1 mm
	UFC-7CH5112S	UFTC-7CH12	

Ultra-Fine Conical Cartridge

	UFC-6CN5101S	UFTC-6CN01	(ø x L) 0.13 mm x 5.1 mm
	UFC-7CN5101S	UFTC-7CN01	
	UFC-6CN5102S	UFTC-6CN02	(ø x L) 0.2 mm x 5.1 mm
	UFC-7CN5102S	UFTC-7CN02	
	UFC-6CN5502R	UFTC-6CNB02	Bent 30°, for work under a microscope, (ø x L) 0.2 mm x 5.5 mm
	UFC-7CN5502R	UFTC-7CNB02	
	UFC-6CN5504S	UFTC-6CN04	0.4 mm x 5.1 mm
	UFC-7CN5504S	UFTC-7CN04	
	UFC-6CN5504R	UFTC-6CNB04	Bent 30°, for work under a microscope, 0.4 mm x 5.6 mm
	UFC-7CN5504R	UFTC-7CNB04	
	UFC-6CN8004S	UFTC-6CNL04	For work in tight spaces, long reach, 0.4 mm x 8.0 mm
	UFC-7CN8004S	UFTC-7CNL04	

Ultra-Fine Rework Hoof-Cartridges - For Drag Soldering SOICs/QFPs

	UFC-6HF5108S	UFTC-6DRH408	Micro Hoof, (Bevel/L) 45° x 1.13 mm, (ø x L) 0.8 mm x 5.1 mm
	UFC-7HF5108S	UFTC-7DRH408	
	UFC-6HF5112S	UFTC-6DRH412	Micro Hoof, (Bevel/L) 45° x 1.71 mm, (ø x L) 1.21 mm x 5.1 mm
	UFC-7HF5112S	UFTC-7DRH412	

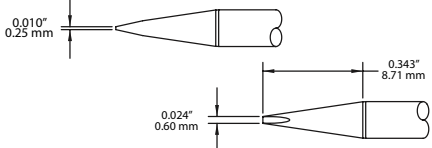
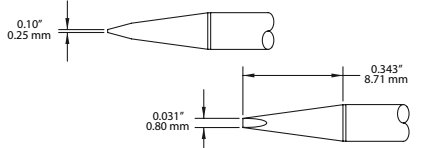
For our complete selection of tips & cartridges, visit www.metcal.com

Temperature Guide & Tip Specifications UFT Series

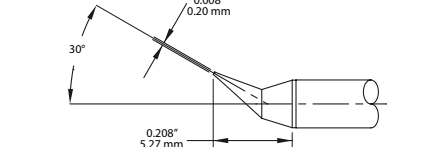
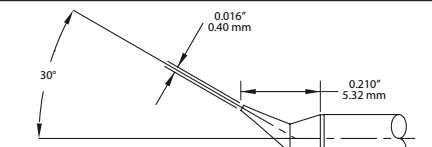
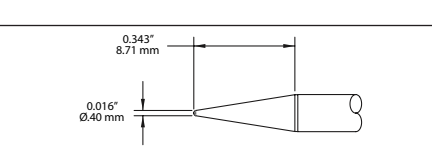
Max Temperature	CV-Series	Application
675°F/357°C	UFT-6	Temperature Sensitive
775°F/413°C	UFT-7	Most Standard
Compatible with:	Systems: CV-500, CV5200 Handpieces: CV-H4-UFT	

Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge. These tips will provide data via the CV power supplies, but due to the nature of their application the Connection Validation™ function is not required and therefore not enabled. All tweezer cartridges are sold per pair.

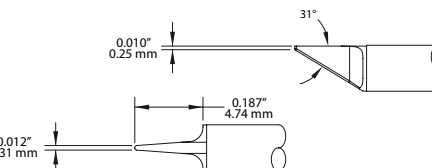
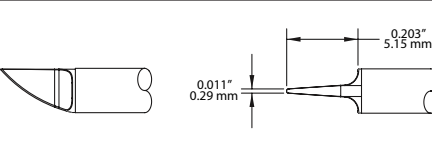
Ultra-Fine Tweezer Cartridge - Chisel

	UFT-6CH9006S	(W x L) 0.6 mm x 8.71 mm, sold per pair
	UFT-7CH9006S	
	UFT-6CH9008S	(W x L) 0.8 mm x 8.71 mm, sold per pair
	UFT-7CH9008S	

Ultra-Fine Tweezer Cartridge - Conical

	UFT-6CN5502R	Conical, Bent, for work under a microscope, (ø x L) 0.2 mm x 5.27 mm, sold per pair
	UFT-7CN5502R	
	UFT-6CN5504R	Conical, Bent, for work under a microscope, (ø x L) 0.4 mm x 5.3 mm, sold per pair
	UFT-7CN5504R	
	UFT-6CN8004S	Conical (ø x L) 0.4 mm x 8.7 mm, sold per pair
	UFT-7CN8004S	

Ultra-Fine Tweezer Cartridge - Power Wedge

	UFT-6PW3150S	Power Wedge, two-way use, tip and long side, (ø x L) 0.31 mm x 4.74 mm, sold per pair
	UFT-7PW3150S	
	UFT-6PW2954C	Power Wedge, two-way use, tip and long side, (ø x L) 0.29 mm x 5.15 mm, sold per pair
	UFT-7PW2954C	

For our complete selection of tips & cartridges, visit www.metcal.com

Hand Soldering, Desoldering, & Rework

PTC & PTTC Tweezer Cartridges



Temperature Guide & Tip Specifications PTC/PTTC Series

Max Temperature	CV-Series	MX-Series	Application
675°F/357°C	PTC-6	PTTC-6	Temperature Sensitive
775°F/413°C	PTC-7	PTTC-7	Most Standard
875°F/468°C	PTC-8		Ceramic and High Thermal Demand
950°F/510°C	PTC-9	PTTC-8	
Compatible with:	Systems: MX-500, MX-5000, MX-5200, CV-5200 Handpieces: MX-PTZ, CV-H4-PTZ	Systems: MX-500, MX-5000, MX-5200 Handpieces: MX-PTZ	

Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge (up to 15°C lower)

Bent

	PTC-6CN1404A		Conical, Bent 30°, (Ø x L) 0.4 mm x 14.3 mm (0.016" x 0.56"), sold per pair
	PTC-7CN1404A	PTTC-701B	
	PTC-8CN1404A		
	PTC-9CN1404A	PTTC-801B	
	PTC-6FB1235R	PTTC-608B	Bent 30°, Blade, (W x L) 3.2 mm x 12.1 mm (0.14" x 0.48"), sold per pair
	PTC-7FB1235R	PTTC-708B	
	PTC-8FB1235R		
	PTC-9FB1235R	PTTC-808B	

Blade

	PTC-6CH1713A	PTTC-602	Blade, (W x L), 1.27 mm x 16.5 mm (0.05" x 0.65"), sold per pair
	PTC-7CH1713A	PTTC-702	
	PTC-8CH1713A		
	PTC-9CH1713A	PTTC-802	
	PTC-6CH1720A	PTTC-603	Blade, (W x L) 2 mm x 16.5 mm (0.08" x 0.65"), sold per pair
	PTC-7CH1720A	PTTC-703	
	PTC-8CH1720A		
	PTC-9CH1720A	PTTC-803	
	PTC-6BL1306R	PTTC-604	Blade, (W x L) 6.35 mm x 12.7 mm (0.25" x 0.5"), sold per pair
	PTC-7BL1306R	PTTC-704	
	PTC-8BL1306R		
	PTC-9BL1306R	PTTC-804	
	PTC-6BL1316R	PTTC-605	Blade, (W x L) 15.75 mm x 12.7 mm (0.63" x 0.5"), sold per pair
	PTC-7BL1316R	PTTC-705	
	PTC-8BL1316R		
	PTC-9BL1316R	PTTC-805	
	PTC-6BL1321R	PTTC-606	Blade, (W x L) 20.6 mm x 12.7 mm (0.81" x 0.5"), sold per pair
	PTC-7BL1321R	PTTC-706	
	PTC-8BL1321R		
	PTC-9BL1321R	PTTC-806	
	PTC-6BL1328R	PTTC-607	Blade, (W x L) 28 mm x 12.7 mm (1.1" x 0.05"), sold per pair
	PTC-7BL1328R	PTTC-707	
	PTC-8BL1328R		
	PTC-9BL1328R	PTTC-807	

Conical

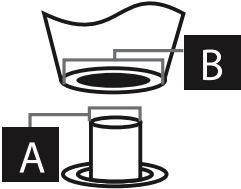
	PTC-6CN2304A	PTTC-601	Conical, (Ø x L) 0.4 mm x 19 mm (0.016"x0.7"), sold per pair
	PTC-7CN2304A	PTTC-701	
	PTC-8CN2304A		
	PTC-9CN2304A	PTTC-801	

For our complete selection of tips & cartridges, visit www.metcal.com

Temperature Guide & Tip Specifications DSC/STDC Series

Max Temperature	CV-Series	MX-Series	Application
675°F/357°C	DSC-6	STDC-0	Temperature Sensitive
775°F/413°C	DSC-7	STDC-1 / 7xxL	Most Standard
875°F/468°C	DSC-8		Ceramic and High Thermal Demand
950°F/510°C	DSC-9	STDC-8	
Compatible with:	Systems: MX-500, MX-5000, MX-5200, CV-500, CV-5200 Handpieces: MX-DS1, CV-H5-DS	Systems: MX-500, MX-5000, MX-5200 Handpieces: MX-DS1	DSC-xxxA / STDC-xxxL = Long Reach Desolder Cartridge to remove components from high density packed PCBs.

Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge (up to 15°C lower) These tips will provide data via the CV series power supplies, but due to the nature of their application the Connection Validation™ function is not required and therefore not enabled.

Standard		A	B	C	
  Standard	DSC-6CN0006S	STDC-002	0.64 mm	1.40 mm	11.43 mm
	DSC-7CN0006S	STDC-102			
	DSC-8CN0006S				
	DSC-9CN0006S	STDC-802			
	DSC-6CN0008S	STDC-003	0.76 mm	1.68 mm	11.17 mm
	DSC-7CN0008S	STDC-103			
	DSC-8CN0008S				
	DSC-9CN0008S	STDC-803			
	DSC-6CN0010S	STDC-004	1.02 mm	1.78 mm	10.92 mm
	DSC-7CN0010S	STDC-104			
	DSC-8CN0010S				
	DSC-9CN0010S	STDC-804			
	DSC-6CN0013S	STDC-005	1.27 mm	2.03 mm	10.66 mm
	DSC-7CN0013S	STDC-105			
	DSC-8CN0013S				
	DSC-9CN0013S	STDC-805			
	DSC-6CN0015S	STDC-006	1.52 mm	2.29 mm	10.41 mm
	DSC-7CN0015S	STDC-106			
	DSC-8CN0015S				
	DSC-9CN0015S	STDC-806			
	DSC-6CN0024S	STDC-007	2.41 mm	3.18 mm	9.14 mm
	DSC-7CN0024S	STDC-107			
	DSC-8CN0024S				
	DSC-9CN0024S	STDC-807			
Long Reach					
 Long Reach	DSC-6CN0008A		0.76 mm	1.68 mm	21.33 mm
	DSC-7CN0008A	STDC-703L			
	DSC-8CN0008A				
	DSC-9CN0008A	STDC-803L			
	DSC-6CN0010A		1.02 mm	1.79 mm	21.08 mm
	DSC-7CN0010A	STDC-704L			
	DSC-8CN0010A				
	DSC-9CN0010A	STDC-804L			
	DSC-6CN0013A		1.27 mm	2.03 mm	20.82 mm
	DSC-7CN0013A	STDC-705L			
	DSC-8CN0013A				
	DSC-9CN0013A	STDC-805L			

For our complete selection of tips & cartridges, visit www.metcal.com

Soldering, Desoldering, & Rework Systems

MFTC & MFT MicroFine Cartridges

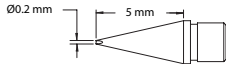
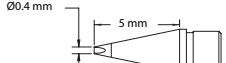
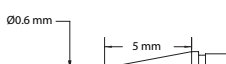
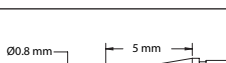
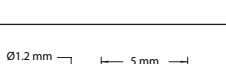
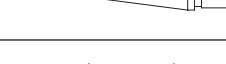


Temperature Guide & Tip Specifications MFTC & MFT Series

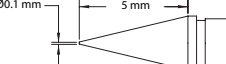
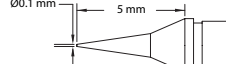
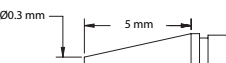
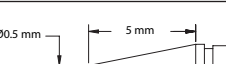
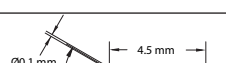
Max Temperature	MicroFine Handpiece	MicroFine Tweezers	Application
675°F/357°C	MFTC-6	MFT-6	Temperature-sensitive applications
775°F/413°C	MFTC-7	MFT-7	Most general applications
Compatible with:	MX-500, MX-5000, MX-5200, CV-500, CV-5200, MX-H9-MFH & CV-H9-MFH Handpieces	MX-500, MX-5000, MX-5200, CV-500, CV-5200, MX-H10-MFT & CV-H10-MFT Tweezers	

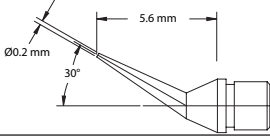
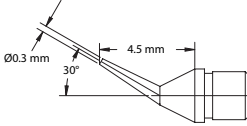
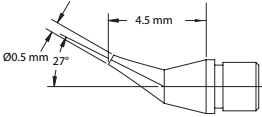
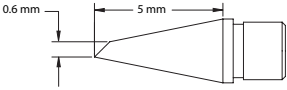
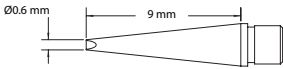
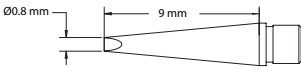
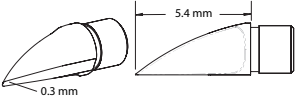
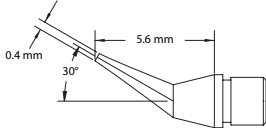
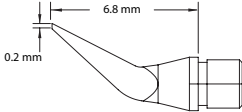
Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge (up to 15°C lower)

MicroFine Cartridge - Chisel

	MFTC-6CH5002 MFTC-7CH5002	0.2 mm x 5 mm
	MFTC-6CH5004 MFTC-7CH5004	0.4 mm x 5 mm
	MFTC-6CH5006 MFTC-7CH5006	0.6 mm x 5 mm
	MFTC-6CH5008 MFTC-7CH5008	0.8 mm x 5 mm
	MFTC-6CH5012 MFTC-7CH5012	1.2 mm x 5 mm
	MFTC-6CC5007 MFTC-7CC5007	Chisel Slot, 0.7 mm x 5 mm x 1 mm

MicroFine Cartridge - Conical

	MFTC-6CN5001 MFTC-7CN5001	0.1 mm x 5 mm
	MFTC-6CNR5001 MFTC-7CNR5001	Conical Reach, 0.1 mm x 5 mm
	MFTC-6CN5003 MFTC-7CN5003	0.3 mm x 5 mm
	MFTC-6CN5005 MFTC-7CN5005	0.5 mm x 5 mm
	MFTC-6CNB4501 MFTC-7CNB4501	Conical Bent, 0.1 mm x 4.5 mm
	MFTC-6CNBR4501 MFTC-7CNBR4501	Conical Bent Reach, 0.1 mm x 4.5 mm

MicroFine Cartridge - Conical		
	MFTC-6CNB5602 MFTC-7CNB5602	Conical Bent, 0.2 mm x 5.6 mm
	MFTC-6CNB4503 MFTC-7CNB4503	Conical Bent, 0.3 mm x 4.5 mm
	MFTC-6CNB4505 MFTC-7CNB4505	Conical Bent, 0.5 mm x 4.5 mm
MicroFine Cartridge - Hoof		
	MFTC-6HF5006 MFTC-7HF5006	Hoof, 0.6 mm x 5 mm
MicroFine Tweezer Cartridges - Chisel		
	MFT-6CH9006 MFT-7CH9006	0.6 mm x 9 mm Sold per pair
	MFT-6CH9008 MFT-7CH9008	0.8 mm x 9 mm Sold per pair
MicroFine Tweezer Cartridges - Power Wedge Blade		
	MFT-6PW5403 MFT-7PW5403	0.3 mm x 5.4 mm Sold per pair
MicroFine Tweezer Cartridges - Conical Bent		
	MFT-6CNB5604 MFT-7CNB5604	0.4 mm x 5.6 mm Sold per pair
	MFT-6CNB6802 MFT-7CNB6802	0.2 mm x 6.8 mm Sold per pair

For our complete selection of tips & cartridges, visit www.metcal.com

Hand Soldering, Desoldering, & Rework

SxV Soldering Tips



Temperature Guide & Tip Specifications SxV Series

Max Temperature	PS and MFR-Series	Application
690°F/366°C	STV	Temperature Sensitive
790°F/421°C	SFV	Fiberglass, Most Standard
880°F/471°C	SCV	Ceramic and High Thermal Demand
	Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems, PS-HC3, MFR-H2-ST and MFR-H2-ST2 Handpieces, PS-CA3, MFR-CA2 and MFR-CA3 Coil Assemblies.	

Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge (up to 15°C lower)

Chisel

	SFV-CH10A	Chisel, (W x L), 1.0 mm x 18.3 mm (0.04" x 0.72")
	STV-CH10A	
	SCV-CH10A	
	SFV-CH15A	Chisel, (W x L), 1.5 mm x 11.3 mm (0.06" x 0.44")
	STV-CH15A	
	SCV-CH15A	
	SFV-CHB15	Chisel, Bent, (W x L), 1.5 mm x 12.2 mm (0.06" x 0.48")
	STV-CHB15	
	SCV-CHB15	
	SFV-CH18AR	Chisel, (W x L), 1.8 mm x 13.4 mm (0.07" x 0.53")
	STV-CH18AR	
	SCV-CH18AR	
	SFV-CH20	Chisel, (W x L), 2.0 mm x 11.0 mm (0.08" x 0.43")
	STV-CH20	
	SCV-CH20	
	SFV-CH25AR	Chisel, (W x L), 2.5 mm x 13.4 mm (0.10" x 0.53")
	STV-CH25AR	
	SCV-CH25AR	
	SFV-CH25	Chisel, (W x L), 2.5 mm x 11.0 mm (0.10" x 0.43")
	STV-CH25	
	SCV-CH25	
	SFV-CH50A	Chisel, (W x L), 5.0 mm x 11.3 mm (0.20" x 0.44")
	STV-CH50A	
	SCV-CH50A	

Conical

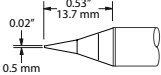
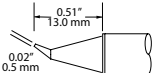
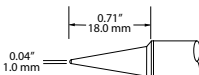
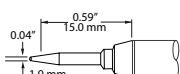
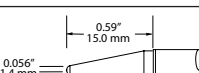
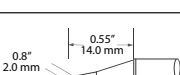
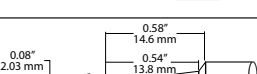
	SFV-CNL03AR	Conical, (Ø x L), Long Reach 0.3 mm x 18.4 mm (0.01" x 0.72")
	STV-CNL03AR	
	SCV-CNL03AR	
	SFV-CNB04A	Conical, (Ø x L), Bent 0.4 mm x 15.5 mm (0.016" x 0.61")
	STV-CNB04A	
	SCV-CNB04A	
	SFV-CN05A	Conical, (Ø x L), 0.4 mm x 18.2 mm (0.016" x 0.72")
	STV-CN05A	
	SCV-CN05A	
	SFV-CNLO4	Conical, (Ø x L), 0.4 mm x 13.6 mm (0.016" x 0.53")
	STV-CNLO4	
	SCV-CNLO4	

For our complete selection of tips & cartridges, visit www.metcal.com

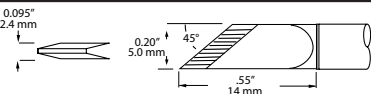
Temperature Guide & Tip Specifications SxV & CxV-Series

Max Temperature	PS and MFR-Series	Application
690°F/366°C	STV & CTV	Temperature Sensitive
790°F/421°C	SFV & CFV	Fiberglass, Most Standard
880°F/471°C	SCV & CCV	Ceramic and High Thermal Demand
	Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems, PS-HC3, MFR-H2-ST and MFR-H2-ST2 Handpieces, PS-CA3, MFR-CA2 and MFR-CA3 Coil Assemblies.	
Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge (up to 15°C lower.)		
Conical		

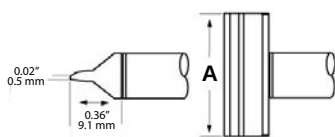
Conical

	SFV-CN05AR	Conical, (Ø x L), 0.5 mm x 13.7 mm (0.02" x 0.53")
	STV-CN05AR	
	SCV-CN05AR	
	SFV-CNB05	Conical, Bent, (Ø x L), 0.5 mm x 13 mm (0.02" x 0.51")
	STV-CNB05	
	SCV-CNB05	
	SFV-CNL10A	Conical, Long Reach, (Ø x L), 1.0 mm x 18 mm (0.04" x 0.71")
	STV-CNL10A	
	SCV-CNL10A	
	SFV-CNL10AR	Conical, Long Reach, (Ø x L), 1.0 mm x 13.7 mm (0.04" x 0.54")
	STV-CNL10AR	
	SCV-CNL10AR	
	SFV-CNL10	Conical, Long Reach, (Ø x L), 1.0 mm x 13 mm (0.04" x 0.51")
	STV-CNL10	
	SCV-CNL10	
	SFV-CNL14	Conical, Long Reach, (Ø x L), 1.4 mm x 15 mm (0.056" x 0.59")
	STV-CNL14	
	SCV-CNL14	
	SFV-DRH20	Conical, Bevel, 60° x 2 mm (Ø x L), 1 mm x 14 mm (0.04" x 0.55")
	STV-DRH20	
	SCV-DRH20	
	SFV-WV20	Rework Hoof-Cartridge - For Drag Soldering SOICs/QFPs, Concave Wave Hoof, Bevel 45°, (Ø x L), 2.0 mm x 13.8 mm (0.08" x 0.54")
	STV-WV20	
	SCV-WV20	

Rework Knife-Cartridges - For Multi-Lead Soldering of PLCCs/SOJs

	SFV-DRK50	Knife, Bevel 45°, (W x L), 5.0 mm x 14 mm (0.20" x 0.55")
	STV-DRK50	
	SCV-DRK50	

CxV Blade Tips for Rework Applications

	CxV Blade Tips for Rework Applications			A
	CFV-BL100	CTV-BL100	CCV-BL100	10 mm (0.40")
	CFV-BL250	CTV-BL250	CCV-BL250	25 mm (1")
	CFV-BL350	CTV-BL350	CCV-BL350	35 mm (1.4")
	CFV-BL400	CTV-BL400	CCV-BL400	40 mm (1.6")
	CFV-BL500	CTV-BL500	CCV-BL500	50 mm (2")

For our complete selection of tips & cartridges, visit www.metcal.com

Hand Soldering, Desoldering, & Rework

SxP Soldering & Rework Cartridges



Temperature Guide & Tip Specifications SxP-Series

Max Temperature	MFR-Series	Application
690°F/366°C	STP	Temperature Sensitive
790°F/421°C	SFP	Fiberglass, Most Standard
880°F/471°C	SCP	Ceramic and High Thermal Demand
	Compatible with: MFR-1110, MFR-1161, MFR-2210, MFR-2211, MFR-2241, MFR-1350/51 Systems and MFR-HI-SC2 Handpiece.	

Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge (up to 15°C lower.)

Chisel

	SFP-CH10	Chisel, Cone 30°, (W x L), 1.0 mm x 9.2 mm (0.04" x 0.36")
	STP-CH10	
	SCP-CH10	
	SFP-CH15	Chisel, Cone 30°, (W x L), 1.5 mm x 10 mm (0.06" x 0.39")
	STP-CH15	
	SCP-CH15	
	SFP-CHB15	Chisel, Cone 30°, Bent, (W x L), 1.5 mm x 12.04 mm (0.06" x 0.474")
	STP-CHB15	
	SCP-CHB15	
	SFP-CH20	Chisel, Cone 30°, (W x L), 2.0 mm x 10 mm (0.08" x 0.4")
	STP-CH20	
	SCP-CH20	
	SFP-CH25	Chisel, Cone 30°, (W x L), 2.5 mm x 10 mm (0.10" x 0.39")
	STP-CH25	
	SCP-CH25	
	SFP-CH30	Chisel, Cone 30°, (W x L), 3.0 mm x 11 mm (0.12" x 0.43")
	STP-CH30	
	SCP-CH30	
	SFP-CH35	Chisel, Cone 30°, (W x L), 3.5 mm x 11 mm (0.12" x 0.43")
	STP-CH35	
	SCP-CH35	
	SFP-CH50	Chisel, Cone 30°, (W x L), 5.0 mm x 7.6 mm (0.20" x 0.3")
	STP-CH50	
	SCP-CH50	

Conical

	SFP-CNB04	Conical, Bent, (ø x L) 0.4 mm x 15.21 mm (0.016" x 0.6")
	STP-CNB04	
	SCP-CNB04	
	SFP-CNL04	Conical, Long Reach, (ø x L) 0.4 mm x 14.9 mm (0.016" x 0.59")
	STP-CNL04	
	SCP-CNL04	
	SFP-BVL10	Conical, (Bevel x L) 60° x 1 mm (ø x L) 0.5 mm x 14.22 mm (0.02" x 0.56")
	STP-BVL10	
	SCP-BVL10	

Rework Hoof-Cartridges - For Drag Soldering SOICs/QF

	SFP-DRH05	Hoof, (ø x L) 0.5 mm x 15.21 mm (0.02" x 0.6")
	STP-DRH05	
	SCP-DRH05	
	SFP-DRH35	Hoof, Bevel 60°, Long Reach, (ø x L) 3.5 mm x 17.78 mm (0.14" x 0.7")
	STP-DRH35	
	SCP-DRH35	
	SFP-WV20	Concave WAVE Hoof, (Bevel/L) 60° x 2.96 mm, (ø x L) 2.0 mm x 11.6 mm
	STP-WV20	
	SCP-WV20	

For our complete selection of tips & cartridges, visit www.metcal.com

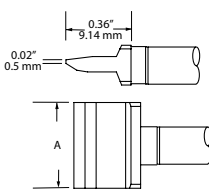
www.metcal.com

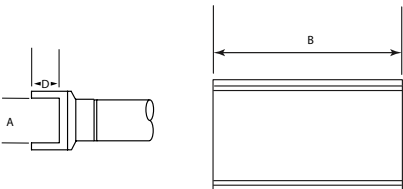
Temperature Guide & Tip Specifications RxP-Series

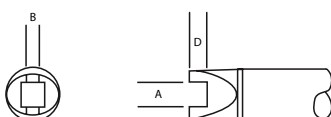
Max Temperature	MFR-Series	Application
790°F/421°C	RFP	Fiberglass, Most Standard
880°F/471°C	RCP	Ceramic and High Thermal Demand
	Compatible with: MFR-1110, MFR-1161, MFR-2210, MFR-2211, MFR-2241, MFR-1350/51 Systems and MFR-H1-SC2 Handpiece. All dimensions shown are in mm (inches)	

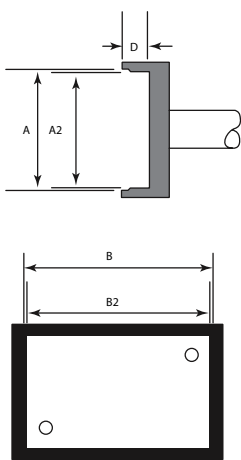
Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge (up to 15°C lower.)

All dimensions shown are in mm (inches)

Blades for Rework Applications		A	B	D	SMT TYPE
	RFP-BL1	10 (0.41)	-	-	-
	RCP-BL1				
	RFP-BL2	15.6 (0.62)	-	-	-
	RCP-BL2				
	RFP-BL3	22.1 (0.87)	-	-	-
	RCP-BL3				

Tunnel - Special Rework Cartridges		A	B	D	SMT TYPE
	RFP-DL1	5.18 (0.204)	10.16 (0.40)	3.22 (0.127)	Tunnel SOIC-14-16
	RCP-DL1				
	RFP-DL2	5.18 (0.204)	4.32 (0.17)	2.29 (0.09)	Tunnel SOIC-8
	RCP-DL2				
	RFP-DL3	6.86 (0.270)	11.15 (0.44)	2.29 (0.09)	Tunnel SOIC-16
	RCP-DL3				

Slot - Special Rework Cartridges		A	B	D	SMT TYPE
	RFP-SL1	2.34 (0.092)	1.37 (0.054)	1.78 (0.07)	0805 Chip Package
	RCP-SL1				
	RFP-SL2	3.48 (0.137)	1.63 (0.064)	1.78 (0.07)	1206 Chip Package
	RCP-SL2				

Quad - Special Rework Cartridges		A	A2	D	B	B2	SMT TYPE
	RFP-QD4	12.70 (0.500)	11.43 (0.450)	3.81 (0.150)	15.24 (0.600)	13.97 (0.550)	PLCC 32
	RCP-QD4						
	RFP-QD6	17.78 (0.700)	16.76 (0.660)	3.81 (0.150)	17.78 (0.700)	16.76 (0.660)	PLCC 44
	RCP-QD6						
	RFP-QD7	25.27 (0.995)	24.38 (0.960)	5.59 (0.220)	25.27 (0.995)	24.38 (0.960)	PLCC 68
	RCP-QD7						
	RFP-QD10	20.32 (0.800)	19.30 (0.760)	3.81 (0.150)	20.32 (0.800)	19.30 (0.760)	PLCC 52
	RCP-QD10						
	RFP-QD15	13.34 (0.525)	12.32 (0.485)	2.79 (0.110)	13.34 (0.525)	12.32 (0.485)	TQFP 80
	RCP-QD15						
	RFP-QD19	16.13 (0.635)	16.13 (0.635)	3.30 (0.130)	16.13 (0.635)	16.13 (0.635)	QFP 44
	RCP-QD19						
	RFP-QD20	16.51 (0.650)	16.51 (0.650)	3.30 (0.130)	22.48 (0.885)	22.48 (0.885)	QFP 100
	RCP-QD20						

For our complete selection of tips & cartridges, visit www.metcal.com

Hand Soldering, Desoldering, & Rework

TxP Tweezer, DxP Desoldering Cartridges



Temperature Guide & Tip Specifications TxP & DxP-Series

Max Temperature	MFR-Series	Application
690°F/366°C	TTP & DTP	Temperature Sensitive
790°F/421°C	TFP & DFP	Fiberglass, Most Standard
880°F/471°C	TCP & DCP	Ceramic and High Thermal Demand
TxP Tweezer Cartridges compatible with: MFR-1140, MFR-2240, MFR2241 Systems and MFR-H4-TW Handpiece DxP Desoldering Tips compatible with: MFR-1150, MFR-1350, MFR-1351 systems with MFR-H5-DS Handpiece and previous MFR-DSX, -DSI, -SDX, -SDI Systems with MFR-HDS Handpiece. All dimensions shown are in mm (inches).		
Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge (up to 15°C lower)		

TxP - Rework Tweezer Cartridges - Conical

	TFP-CNP1	(Ø x L), 0.4 mm x 19.1 mm (0.015" x 0.75"), sold per pair
	TTP-CNP1	
	TCP-CNP1	

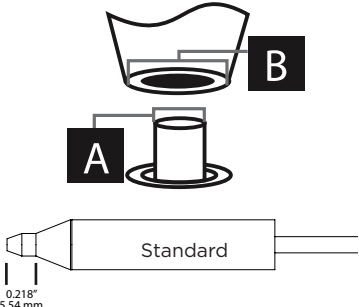
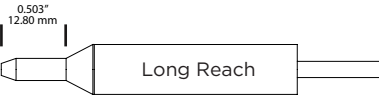
TxP - Rework Tweezer Cartridges - Blade

	TFP-BLP1	(W x L), 1.0 mm x 14 mm (0.04" x 0.55"), sold per pair
	TTP-BLP1	
	TCP-BLP1	
	TFP-BLP2	(W x L), 2.0 mm x 14 mm (0.08" x 0.55"), sold per pair
	TTP-BLP2	
	TCP-BLP2	

TxP - Rework Tweezer Cartridges - Wide Blade

	TFP-BLH40	A 6.35 mm (0.25"), sold per pair
	TTP-BLH40	
	TCP-BLH40	
	TFP-BLH50	16 mm (0.62"), sold per pair
	TTP-BLH50	
	TCP-BLH50	
	TFP-BLH60	20.5 mm (0.81"), sold per pair
	TTP-BLH60	
	TCP-BLH60	
	TFP-BLH70	28 mm (1.1"), sold per pair
	TTP-BLH70	
	TCP-BLH70	

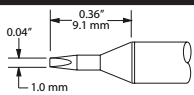
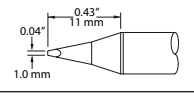
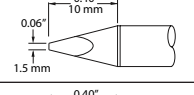
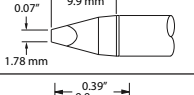
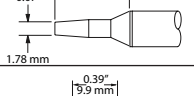
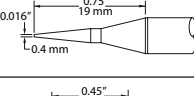
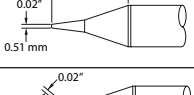
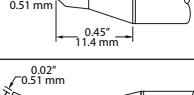
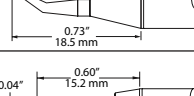
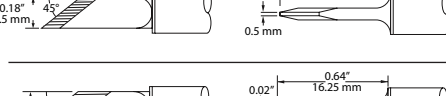
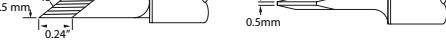
DxP - Desoldering Tips

	DFP-CN2	0.64 (0.025)	1.78 (0.070)	Standard
	DCP-CN2			
	DFP-CN3	0.76 (0.030)	2.03 (0.080)	Standard
	DCP-CN3			
	DFP-CN4	1.02 (0.040)	2.28 (0.090)	Standard
	DCP-CN4			
	DFP-CN5	1.27 (0.050)	2.64 (0.104)	Standard
	DCP-CN5			
	DFP-CN6	1.52 (0.060)	2.84 (0.112)	Standard
	DCP-CN6			
	DFP-CN7	2.41 (0.095)	3.63 (0.143)	Standard
	DCP-CN7			
	DFP-CNL3	0.76 (0.030)	2.03 (0.080)	Long Reach
	DCP-CNL3			
	DFP-CNL4	1.02 (0.040)	2.28 (0.090)	Long Reach
	DCP-CNL4			
	DFP-CNL5	1.27 (0.050)	2.64 (0.104)	Long Reach
	DCP-CNL5			

All dimensions shown are in mm (inches)

For our complete selection of tips & cartridges, visit www.metcal.com

Temperature Guide & Tip Specifications SSC-Series

Max Temperature	MFR & SP200-Series	Application
675°F/357°C	SSC-6	Temperature Sensitive
775°F/413°C	SSC-7	Most Standard
	Compatible with: SP200, MFR-1160 Systems, SP-HC1 and MFR-H6-SSC Handpieces	
Please note the above temperatures are the maximum temperatures of the heater. The idle temperature is dependent on the geometry of the cartridge (up to 15°C lower)		
Chisel		
	SSC-671A	Chisel, (W x L) 1.0 mm x 9.1 mm (0.04" x 0.36")
	SSC-771A	
	SSC-625A	Chisel, (W x L) Cone 30°, 1.0 mm x 11 mm (0.04" x 0.43")
	SSC-725A	
	SSC-638A	Chisel (W x L) 30°, 1.5 mm x 10 mm (0.06" x 0.40")
	SSC-738A	
	SSC-637A	Chisel (W x L) 30°, 1.78 mm x 9.9 mm (0.07" x 0.40")
	SSC-737A	
	SSC-672A	Chisel, (W x L) 1.78 mm x 9.9 mm (0.07"x 0.39")
	SSC-772A	
	SSC-636A	Chisel 30°, (W x L) 2.5 mm x 9.9 mm (0.10" x 0.39")
	SSC-736A	
Conical		
	SSC-645A	Conical, Sharp, Long Reach, (Ø x L), 0.4 mm x 19 mm (0.016" x 0.75")
	SSC-745A	
	SSC-622A	Conical, Sharp, (Ø x L), 0.51 mm x 11.4 mm (0.02" x 0.45")
	SSC-722A	
	SSC-626A	Conical, Sharp Bent 30°, (Ø x L), 0.51 mm x 11.4 mm (0.02" x 0.45")
	SSC-726A	
	SSC-654A	Conical, Sharp Bent 30°, Long Reach, (Ø x L), 0.51 mm x 18.5 mm (0.02" x 0.73")
	SSC-754A	
	SSC-601A	Conical, Sharp, (Ø x L), 1.0 mm x 15.2 mm (0.04" x 0.60")
	SSC-701A	
Rework Knife-Cartridges - For Multi-Lead Soldering of PLCCs/SOJs		
	SSC-661A	Knife, Bevel 45°, (W x L), 4.5 mm x 16.25 mm (0.18" x 0.64")
	SSC-761A	
	SSC-673A	Knife, Bevel 45°, Increased tinned area 6.1 mm (W x L), 5.1 mm x 16.25 mm (0.24" x 0.64")
	SSC-773A	

For our complete selection of tips & cartridges, visit www.metcal.com



METCAL™

OKInternational
A **DOVER**™ COMPANY

Corporate Headquarters (United States)
OK International / Metcal

10800 Valley View Street
Cypress, CA 90630 USA
Tel: 1-714-799-9910
Fax: 1-714-828-2001
Email: NA-CustCare@okininternational.com

European Corporate Office
OK International / Metcal

Eagle Close, Chandler's Ford
Hampshire, SO53 4NF, United Kingdom
Tel: English +44 2380 489 100
Tel: Français: +33 176 710 403
Tel: Deutsch: +49 711 959 69 744
Email: Europe@okininternational.com

China Corporate Office
OK International / Metcal

4th floor East, The Electronic Building
Yanxiang Industrial Zone
High Tech Road, Guangming New District
Shenzhen, P.R.C
Tel: +86-755-2327 6366
Fax: +86-755-2329 5492
Email: China@okininternational.com