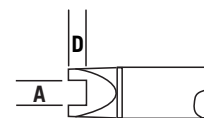
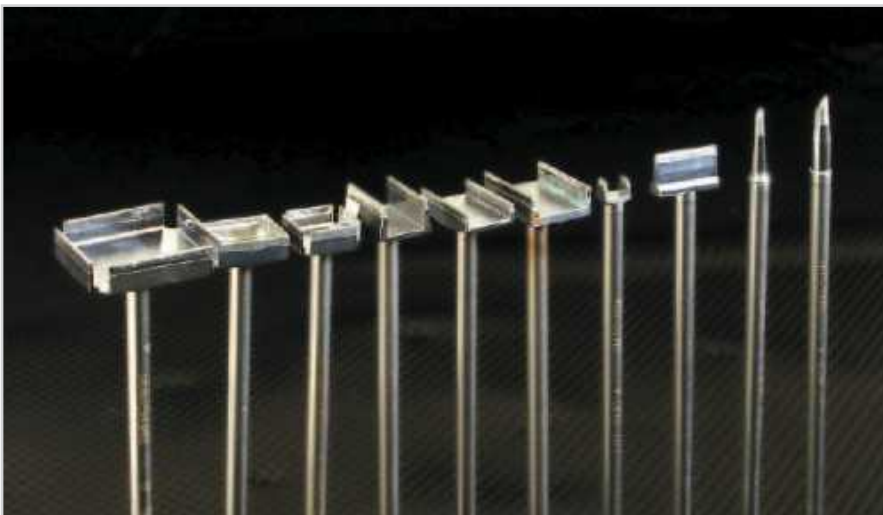
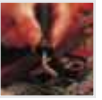


# SMT Rework Tip Cartridges

Designed for reworking SMT components, SMTC tip cartridges do it all – assembly, removal and cleaning. The SMTC range includes slot, tunnel and quad tip cartridges. The SMTC range also includes hoof tips for drag soldering, blade tips to remove residual solder from pads, and knife tips for multi-lead soldering of PLCCs in tight places.

**Please note:** SMTC soldering tip cartridges are for use with the MX-RM3E soldering/rework hand-pieces for STSS/MX systems only. They cannot be used with SP systems, Talon® hand-pieces or desolder hand-pieces.

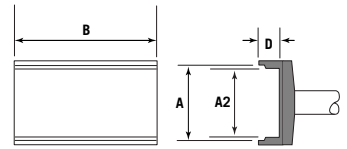
MX Tips



## SLOT TIP CARTRIDGES

SMT TYPE	DIMENSIONS IN INCHES (mm)			Part No.
	A	B	D	
Chip 0805	.090 (2.29)	.050 (1.27)	.070 (1.79)	SMTC-X01
Chip 1206, 1210	.140 (3.56)	.060 (1.52)	.070 (1.79)	SMTC-X02
Chip 1808, 1812	.190 (4.83)	.080 (2.03)	.075 (1.91)	SMTC-X03
Chip, Box A (EIA SOPM-3224)	.135 (3.43)	.080 (2.03)	.120 (3.05)	SMTC-X35
Chip, Box B (EIA SOPM-3528)	.150 (3.81)	.095 (2.41)	.100 (2.54)	SMTC-X32
Melf, Box B (EIA SOPM-4532)	.190 (4.83)	.110 (2.79)	.160 (4.06)	SMTC-X36
Chip, Box C (EIA SOPM-6032)	.250 (6.35)	.095 (2.41)	.130 (3.30)	SMTC-X33*
Chip, Box D (EIA SOPM-7246)	.300 (7.62)	.100 (2.54)	.140 (3.56)	SMTC-X34*
SOT-23	.068 (1.73)	.100 (2.54)	.050 (1.27)	SMTC-X05
SOT-89	.110 (2.80)	.250 (6.35)	.080 (2.03)	SMTC-X08
Chip 0402, 0603, 0805 (angled)	.080 (2.03)	.050 (1.27)	.060 (1.52)	SMTC-X88
Chip 0402, 0603	.070 (1.78)	.040 (1.02)	.040 (1.02)	SMTC-X96

500 SERIES X=5    600 SERIES X=0    700 SERIES X=1    \*=NOT AVAILABLE FOR 500 SERIES

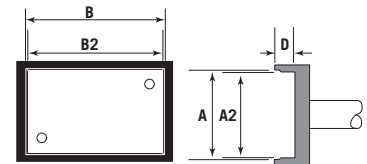


**TUNNEL TIP CARTRIDGES FOR DUAL IN-LINE PACKAGES**

SMT TYPE	DIMENSIONS IN INCHES (mm)				Part No.
	A2	A	B	D	
DPAC	.335 (8.51)	.335 (8.51)	.250 (6.35)	.200 (5.08)	SMTC- <b>X</b> 47
SO-8	.320 (8.13)	.380 (9.65)	.750 (19.05)	.240 (6.10)	SMTC- <b>X</b> 107
SO-16	.330 (8.38)	.330 (8.38)	.475 (12.07)	.230 (5.84)	SMTC- <b>X</b> 46*
SO-8	.335 (8.51)	.335 (8.51)	.665 (16.90)	.250 (6.35)	SMTC- <b>X</b> 68**
SOIC-8	.200 (5.08)	.200 (5.08)	.170 (4.32)	.090 (2.29)	SMTC- <b>X</b> 04
SOIC-14,-16	.200 (5.08)	.200 (5.08)	.400 (10.16)	.090 (2.29)	SMTC- <b>X</b> 06
SOIC-14	.204 (5.18)	.204 (5.18)	.350 (8.89)	.100 (2.54)	SMTC- <b>X</b> 142
SOIC-24 (Mini flat pack)	.280 (7.11)	.280 (7.11)	.620 (15.75)	.125 (3.18)	SMTC- <b>X</b> 77
SOIC-16 (Wide)	.320 (8.13)	.320 (8.13)	.470 (11.94)	.270 (6.86)	SMTC- <b>X</b> 124
SOIC-20	.375 (9.53)	.375 (9.53)	.520 (13.21)	.125 (3.18)	SMTC- <b>X</b> 10
SOIC-24	.375 (9.53)	.375 (9.53)	.620 (15.75)	.125 (3.18)	SMTC- <b>X</b> 09
SOIC-28, SOL-34	.375 (9.53)	.375 (9.53)	.720 (18.29)	.125 (3.18)	SMTC- <b>X</b> 07
SOIC-32	.520 (13.21)	.520 (13.21)	.805 (20.45)	.170 (4.32)	SMTC- <b>X</b> 42
SOJ-28, SOM-36	.315 (8.00)	.340 (8.64)	.740 (18.80)	.074 (1.88)	SMTC- <b>X</b> 26
SOJ-32, 34	.315 (8.00)	.340 (8.64)	.840 (21.34)	.125 (3.18)	SMTC- <b>X</b> 140
SOJ-40, SOM-32	.410 (10.41)	.450 (11.43)	1.020 (25.91)	.075 (1.91)	SMTC- <b>X</b> 40
SOJ-42	.410 (10.41)	.450 (11.43)	1.070 (27.18)	.125 (3.18)	SMTC- <b>X</b> 148
SOMC-14,-16, DB-20	.270 (6.86)	.270 (6.86)	.440 (11.18)	.090 (2.29)	SMTC- <b>X</b> 20
SOP-20	.270 (6.86)	.270 (6.86)	.285 (7.24)	.100 (2.54)	SMTC- <b>X</b> 138
SOP-28	.420 (10.67)	.420 (10.67)	.720 (18.29)	.125 (3.18)	SMTC- <b>X</b> 39
SOP-40	.460 (11.68)	.510 (12.95)	1.000 (25.4)	.125 (3.18)	SMTC- <b>X</b> 134*
SOP-44	.510 (12.95)	.565 (14.35)	1.070 (27.18)	.105 (2.67)	SMTC- <b>X</b> 83
TSOP-28	.470 (11.94)	.505 (12.83)	.320 (8.13)	.065 (1.65)	SMTC- <b>X</b> 95
TSOP-40	.730 (18.54)	.760 (19.30)	.400 (10.16)	.120 (3.05)	SMTC- <b>X</b> 154
TSOP-56	.730 (18.54)	.760 (19.30)	.556 (14.12)	.120 (3.05)	SMTC- <b>X</b> 162
TSOP-32	.730 (18.54)	.760 (19.30)	.320 (8.13)	.120 (3.05)	SMTC- <b>X</b> 84**

600 SERIES X=0 700 SERIES X=1 \* =NOT AVAILABLE FOR 600 SERIES

\*\* =NOT AVAILABLE FOR 700 SERIES



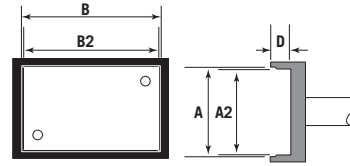
**QUAD TIP CARTRIDGES FOR PLCC**

SMT TYPE	A2	A	B2	B	D	Part No.
PLCC 18	.300 (7.62)	.330 (8.38)	.500 (12.70)	.530 (13.46)	.150 (3.81)	SMTC- <b>X</b> 11
PLCC 20	.360 (9.14)	.400 (10.16)	.360 (9.14)	.400 (10.16)	.150 (3.81)	SMTC- <b>X</b> 12
PLCC 28	.370 (9.40)	.410 (10.41)	.570 (14.48)	.610 (15.49)	.150 (3.81)	SMTC- <b>X</b> 103
PLCC 32	.450 (11.43)	.500 (12.70)	.550 (13.97)	.600 (15.24)	.150 (3.81)	SMTC- <b>X</b> 16
PLCC 28	.455 (11.56)	.500 (12.70)	.455 (11.58)	.500 (12.70)	.150 (3.81)	SMTC- <b>X</b> 13
PLCC 44	.660 (16.76)	.700 (17.78)	.660 (16.76)	.700 (17.78)	.150 (3.81)	SMTC- <b>X</b> 14
PLCC 68	.960 (24.38)	.995 (25.27)	.960 (24.38)	.995 (25.27)	.220 (5.59)	SMTC- <b>X</b> 18*
PLCC 68 dual*	.960 (24.38)	.995 (25.27)	.960 (24.38)	.995 (25.27)	.220 (5.59)	SMTC- <b>X</b> 28
PLCC 84 dual*	1.165 (29.59)	1.195 (30.35)	1.165 (29.59)	1.195 (30.35)	.220 (5.59)	SMTC- <b>X</b> 29
PLCC 52	.760 (19.30)	.800 (20.32)	.760 (19.30)	.800 (20.32)	.150 (3.81)	SMTC- <b>X</b> 17*
PLCC 84	1.165 (29.59)	1.195 (30.35)	1.165 (29.59)	1.195 (30.35)	.220 (5.59)	SMTC- <b>X</b> 19*

600 SERIES X=0 700 SERIES X=1 FOR ALL QUADS USE 700 SERIES TIP CARTRIDGES

\* =NOT AVAILABLE FOR 600 SERIES

**Please note:** •Dual tip cartridges require two power supply units and two hand-pieces. A Dual Hand-Piece Support (MX-DHS) is also recommended.

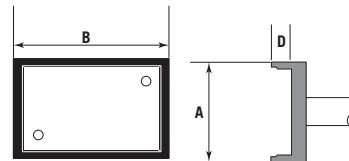


**QUAD TIP CARTRIDGES FOR QFP**

SMT TYPE	DIMENSIONS IN INCHES (mm)					Part No.
	A2	A	B	B2	D	
<b>SQFP 48 (EIAJ)</b>	.330 (8.38)	.330 (8.38)	.330 (8.38)	.330 (8.38)	.100 (2.54)	SMTC- <b>X</b> 121
<b>SQFP 64 (EIAJ)</b>	.440 (11.18)	.440 (11.18)	.440 (11.18)	.440 (11.18)	.100 (2.54)	SMTC- <b>X</b> 120
<b>TQFP 44</b>	.440 (11.18)	.480 (12.19)	.480 (12.19)	.520 (13.21)	.110 (2.79)	SMTC- <b>X</b> 159
<b>TQFP 80</b>	.485 (12.32)	.525 (13.34)	.485 (12.32)	.525 (13.34)	.110 (2.79)	SMTC- <b>X</b> 132
<b>QFP 48</b>	.550 (13.97)	.550 (13.97)	.550 (13.97)	.550 (13.97)	.130 (3.30)	SMTC- <b>X</b> 115
<b>VQFP 100 (EIAJ)</b>	.570 (14.48)	.610 (15.49)	.570 (14.48)	.610 (15.49)	.110 (2.79)	SMTC- <b>X</b> 118
<b>QFP 128 (3.2 mm fp)</b>	.620 (15.75)	.620 (15.75)	.860 (21.84)	.860 (21.84)	.130 (3.30)	SMTC- <b>X</b> 133
<b>QFP 44</b>	.635 (16.13)	.635 (16.13)	.635 (16.13)	.635 (16.13)	.130 (3.30)	SMTC- <b>X</b> 21
<b>QFP 100 (rectangular)</b>	.650 (16.51)	.650 (16.51)	.885 (22.48)	.885 (22.48)	.130 (3.30)	SMTC- <b>X</b> 43
<b>QFP 64, 80</b>	.675 (17.15)	.675 (17.15)	.910 (23.11)	.910 (23.11)	.130 (3.30)	SMTC- <b>X</b> 15
<b>QFP 100</b>	.805 (20.45)	.805 (20.45)	.805 (20.45)	.805 (20.45)	.190 (4.83)	SMTC- <b>X</b> 45*
<b>QFP 144</b>	.805 (20.45)	.840 (21.34)	.805 (20.45)	.840 (21.34)	.075 (1.91)	SMTC- <b>X</b> 122
<b>QFP 132</b>	.985 (25.02)	1.020 (25.91)	.985 (25.02)	1.020 (25.91)	.125 (3.18)	SMTC- <b>X</b> 86
<b>QFP 100 (square)</b>	1.040 (26.42)	1.040 (26.42)	1.040 (26.42)	1.040 (26.42)	.130 (3.30)	SMTC- <b>X</b> 44*
<b>QFP 208 DUAL •</b>	1.125 (28.58)	1.770 (44.96)	1.125 (28.58)	1.170 (44.96)	.114 (2.90)	SMTC- <b>X</b> 81
<b>QFP 120,160 DUAL •</b>	1.165 (29.59)	1.200 (30.48)	1.165 (29.59)	1.200 (30.48)	.120 (3.05)	SMTC- <b>X</b> 48
<b>PQFP 240 DUAL •</b>	1.290 (32.77)	1.330 (33.78)	1.290 (32.77)	1.330 (33.78)	.110 (2.79)	SMTC- <b>X</b> 125
<b>QFP 304 DUAL •</b>	1.600 (40.64)	1.650 (41.91)	1.650 (41.91)	1.600 (40.64)	.200 (5.08)	SMTC- <b>X</b> 158**

**600 SERIES X=0 700 SERIES X=1 FOR ALL QUADS USE 700 SERIES TIP CARTRIDGES**  
**\*= NOT RECOMMENDED FOR 600 SERIES \*\*= NOT AVAILABLE FOR 600 SERIES**

**Please Note: •Dual tip cartridges require two power supply units and two hand-pieces. A Dual Hand-Piece Support (MX-DHS) is also recommended.**



**SOCKET TIP CARTRIDGES (TIP INSIDE SOCKET)**

SMD COMPONENT	A	B	D	Part No.	Recommended
					Part No.
<b>PLCC-20 SOCKET</b>	.360 (9.14)	.360 (9.14)	.115 (2.91)	SMTC- <b>X</b> 144	SMTC-1144
<b>PLCC-32 SOCKET</b>	.456 (11.58)	.556 (14.12)	.120 (3.05)	SMTC- <b>X</b> 109	SMTC-1109
<b>PLCC-84 SOCKET DUAL •</b>	1.160 (40.64)	1.160 (40.64)	.115 (2.91)	SMTC- <b>X</b> 145	SMTC-1145

**600 SERIES X=0 700 SERIES X=1 FOR ALL QUADS USE 700 SERIES TIP CARTRIDGES**

**Please Note: •Dual tip cartridges require two power supply units and two hand-pieces. A Dual Hand-Piece Support (MX-DHS) is also recommended.**

# Speciality

## Speciality Tip Cartridges

MX Tips



### BLADE TIP CARTRIDGES

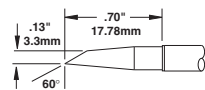
SMTC-X110**	SMTC-X62	SMTC-X61	SMTC-X60
Blade	Blade	Blade	Blade
Dual Heater Quad 1.55" (39.37mm)	0.870" (22.10mm) Long	0.620" (15.75mm) Long	0.410" (10.41mm) Long



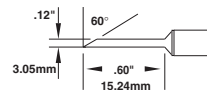
500 SERIES X=5    600 SERIES X=0    700 SERIES X=1    800 SERIES X=8

\*\*=NOT AVAILABLE FOR 500 OR 800 SERIES

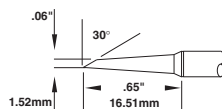
### HOOF AND KNIFE TIP CARTRIDGES FOR DRAG SOLDERING



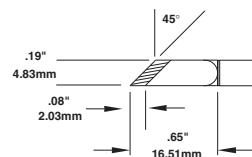
**SMTC-X147\***  
Hoof



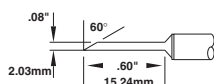
**SMTC-X170\***  
Long Reach Hoof



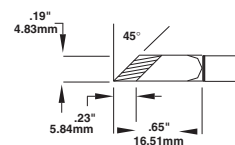
**SMTC-X167\*\***  
Mini-Hoof



**SMTC-X161\***  
Knife  
(Tinned Area, .08"  
2.03mm)



**SMTC-X169\*\***  
Long Reach Hoof

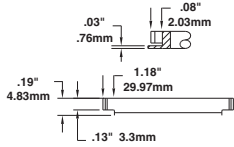


**SMTC-X173**  
Knife  
(Increased Tinned Area,  
.23" 5.84mm)

500 SERIES X=5    600 SERIES X=0    700 SERIES X=1    800 SERIES X=8

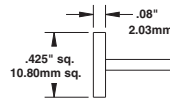
\*=NOT AVAILABLE FOR 800 SERIES    \*\*=NOT AVAILABLE FOR 500 OR 800 SERIES

## OTHER SPECIALITY TIP CARTRIDGES



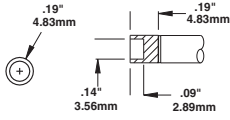
### SMTC-X98\*\*

SMT Connector  
28 Pin



### SMTC-X136\*\*

Hot Plate  
.425" sq. (10.8mm sq.)



### SMTC-X100

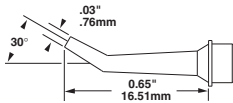
Micro XMT  
Small Package  
Co-Axial Tip

500 SERIES X=5    600 SERIES X=0    700 SERIES X=1    800 SERIES X=8

\*\*=NOT AVAILABLE FOR 500 OR 800 SERIES

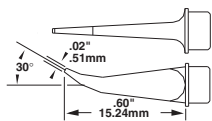
# Microfine Rework Tip Cartridges

The Microfine rework tip cartridge series is designed for reworking 0201 and 0402 or microfine components in tight spaces with the help of a microscope. This series includes tips that can be used to remove 0402 and 0201 components from the topside approach or can also be used for multi-lead drag soldering on micro PLCC and QFP components with access problems. Depending on your application, one of these tips will meet your micro component rework needs.



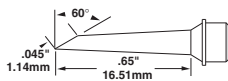
### SMTC-X171

Use to remove 0201 and 0402 components from a "topside" angle. This design increases microscope viewing when reworking/removing micro chip capacitors/components.



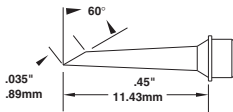
### SMTC-X172

Designed for fine drag soldering and point-to-point soldering. This tip increases access between components and allows for lead to lead or solder bridge clean-up.



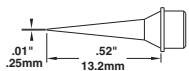
### SMTC-X174

Long reach micro hoof tip designed with a smaller surface area than the mini-hoof for optimal drag soldering of components in tight spots.



### SMTC-X175

Micro-hoof tip designed with a smaller surface area than the mini-hoof for drag soldering of small/micro leaded components.



### STTC-X90

Microfine tip designed for soldering and touch-up of micro components such as 0201s and 0402s.

500 SERIES X=5    600 SERIES X=0    700 SERIES X=1    800 SERIES X=8

MX-Tips

