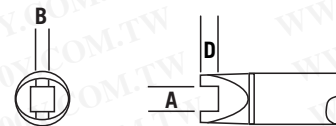
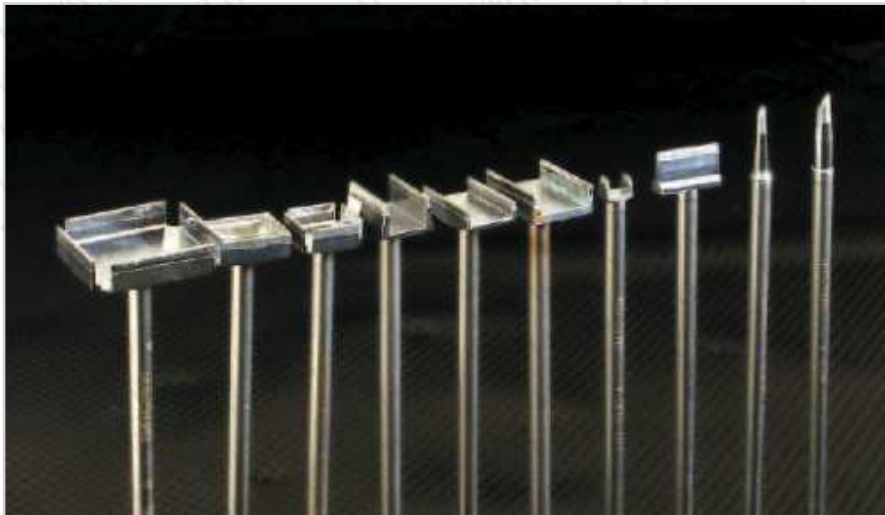


SMTC

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.



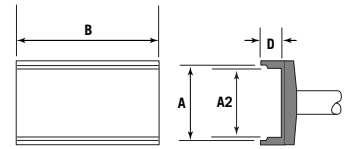
SLOT TIP CARTRIDGES

| SMT TYPE | DIMENSIONS IN INCHES (mm) | | | Part No. |
|--------------------------------|---------------------------|-------------|-------------|--------------------|
| | A | B | D | |
| Chip 0805 | .090 (2.29) | .050 (1.27) | .070 (1.79) | SMTC- X 01 |
| Chip 1206, 1210 | .140 (3.56) | .060 (1.52) | .070 (1.79) | SMTC- X 02 |
| Chip 1808, 1812 | .190 (4.83) | .080 (2.03) | .075 (1.91) | SMTC- X 03 |
| Chip, Box A (EIA SOPM-3224) | .135 (3.43) | .080 (2.03) | .120 (3.05) | SMTC- X 35 |
| Chip, Box B (EIA SOPM-3528) | .150 (3.81) | .095 (2.41) | .100 (2.54) | SMTC- X 32 |
| Melf, Box B (EIA SOPM-4532) | .190 (4.83) | .110 (2.79) | .160 (4.06) | SMTC- X 36 |
| Chip, Box C (EIA SOPM-6032) | .250 (6.35) | .095 (2.41) | .130 (3.30) | SMTC- X 33* |
| Chip, Box D (EIA SOPM-7246) | .300 (7.62) | .100 (2.54) | .140 (3.56) | SMTC- X 34* |
| SOT-23 | .068 (1.73) | .100 (2.54) | .050 (1.27) | SMTC- X 05 |
| SOT-89 | .110 (2.80) | .250 (6.35) | .080 (2.03) | SMTC- X 08 |
| Chip 0402, 0603, 0805 (angled) | .080 (2.03) | .050 (1.27) | .060 (1.52) | SMTC- X 88 |
| Chip 0402, 0603 | .070 (1.78) | .040 (1.02) | .040 (1.02) | SMTC- X 96 |

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

MX Tips



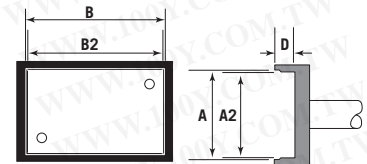


TUNNEL TIP CARTRIDGES FOR DUAL IN-LINE PACKAGES

| 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- X 47 |
| SO-8 | .320 (8.13) | .380 (9.65) | .750 (19.05) | .240 (6.10) | SMTC- X 107 |
| SO-16 | .330 (8.38) | .330 (8.38) | .475 (12.07) | .230 (5.84) | SMTC- X 46* |
| SO-8 | .335 (8.51) | .335 (8.51) | .665 (16.90) | .250 (6.35) | SMTC- X 68** |
| SOIC-8 | .200 (5.08) | .200 (5.08) | .170 (4.32) | .090 (2.29) | SMTC- X 04 |
| SOIC-14,-16 | .200 (5.08) | .200 (5.08) | .400 (10.16) | .090 (2.29) | SMTC- X 06 |
| SOIC-14 | .204 (5.18) | .204 (5.18) | .350 (8.89) | .100 (2.54) | SMTC- X 142 |
| SOIC-24 (Mini flat pack) | .280 (7.11) | .280 (7.11) | .620 (15.75) | .125 (3.18) | SMTC- X 77 |
| SOIC-16 (Wide) | .320 (8.13) | .320 (8.13) | .470 (11.94) | .270 (6.86) | SMTC- X 124 |
| SOIC-20 | .375 (9.53) | .375 (9.53) | .520 (13.21) | .125 (3.18) | SMTC- X 10 |
| SOIC-24 | .375 (9.53) | .375 (9.53) | .620 (15.75) | .125 (3.18) | SMTC- X 09 |
| SOIC-28, SOL-34 | .375 (9.53) | .375 (9.53) | .720 (18.29) | .125 (3.18) | SMTC- X 07 |
| SOIC-32 | .520 (13.21) | .520 (13.21) | .805 (20.45) | .170 (4.32) | SMTC- X 42 |
| SOJ-28, SOM-36 | .315 (8.00) | .340 (8.64) | .740 (18.80) | .074 (1.88) | SMTC- X 26 |
| SOJ-32, 34 | .315 (8.00) | .340 (8.64) | .840 (21.34) | .125 (3.18) | SMTC- X 140 |
| SOJ-40, SOM-32 | .410 (10.41) | .450 (11.43) | 1.020 (25.91) | .075 (1.91) | SMTC- X 40 |
| SOJ-42 | .410 (10.41) | .450 (11.43) | 1.070 (27.18) | .125 (3.18) | SMTC- X 148 |
| SOMC-14,-16, DB-20 | .270 (6.86) | .270 (6.86) | .440 (11.18) | .090 (2.29) | SMTC- X 20 |
| SOP-20 | .270 (6.86) | .270 (6.86) | .285 (7.24) | .100 (2.54) | SMTC- X 138 |
| SOP-28 | .420 (10.67) | .420 (10.67) | .720 (18.29) | .125 (3.18) | SMTC- X 39 |
| SOP-40 | .460 (11.68) | .510 (12.95) | 1.000 (25.4) | .125 (3.18) | SMTC- X 134* |
| SOP-44 | .510 (12.95) | .565 (14.35) | 1.070 (27.18) | .105 (2.67) | SMTC- X 83 |
| TSOP-28 | .470 (11.94) | .505 (12.83) | .320 (8.13) | .065 (1.65) | SMTC- X 95 |
| TSOP-40 | .730 (18.54) | .760 (19.30) | .400 (10.16) | .120 (3.05) | SMTC- X 154 |
| TSOP-56 | .730 (18.54) | .760 (19.30) | .556 (14.12) | .120 (3.05) | SMTC- X 162 |
| TSOP-32 | .730 (18.54) | .760 (19.30) | .320 (8.13) | .120 (3.05) | SMTC- X 84** |

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

**=NOT AVAILABLE FOR 700 SERIES



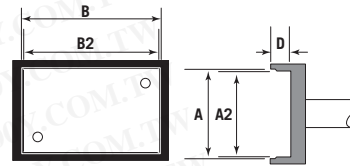
QUAD TIP CARTRIDGES FOR PLCC

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

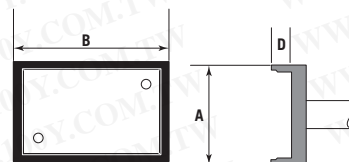


QUAD TIP CARTRIDGES FOR QFP

| SMT TYPE | DIMENSIONS IN INCHES (mm) | | | | | Part No. |
|------------------------------|---------------------------|---------------|---------------|---------------|-------------|----------------------|
| | A2 | A | B | B2 | D | |
| SQFP 48 (EIAJ) | .330 (8.38) | .330 (8.38) | .330 (8.38) | .330 (8.38) | .100 (2.54) | SMTC- X 121 |
| SQFP 64 (EIAJ) | .440 (11.18) | .440 (11.18) | .440 (11.18) | .440 (11.18) | .100 (2.54) | SMTC- X 120 |
| TQFP 44 | .440 (11.18) | .480 (12.19) | .480 (12.19) | .520 (13.21) | .110 (2.79) | SMTC- X 159 |
| TQFP 80 | .485 (12.32) | .525 (13.34) | .485 (12.32) | .525 (13.34) | .110 (2.79) | SMTC- X 132 |
| QFP 48 | .550 (13.97) | .550 (13.97) | .550 (13.97) | .550 (13.97) | .130 (3.30) | SMTC- X 115 |
| VQFP 100 (EIAJ) | .570 (14.48) | .610 (15.49) | .570 (14.48) | .610 (15.49) | .110 (2.79) | SMTC- X 118 |
| QFP 128 (3.2 mm fp) | .620 (15.75) | .620 (15.75) | .860 (21.84) | .860 (21.84) | .130 (3.30) | SMTC- X 133 |
| QFP 44 | .635 (16.13) | .635 (16.13) | .635 (16.13) | .635 (16.13) | .130 (3.30) | SMTC- X 21 |
| QFP 100 (rectangular) | .650 (16.51) | .650 (16.51) | .885 (22.48) | .885 (22.48) | .130 (3.30) | SMTC- X 43 |
| QFP 64, 80 | .675 (17.15) | .675 (17.15) | .910 (23.11) | .910 (23.11) | .130 (3.30) | SMTC- X 15 |
| QFP 100 | .805 (20.45) | .805 (20.45) | .805 (20.45) | .805 (20.45) | .190 (4.83) | SMTC- X 45* |
| QFP 144 | .805 (20.45) | .840 (21.34) | .805 (20.45) | .840 (21.34) | .075 (1.91) | SMTC- X 122 |
| QFP 132 | .985 (25.02) | 1.020 (25.91) | .985 (25.02) | 1.020 (25.91) | .125 (3.18) | SMTC- X 86 |
| QFP 100 (square) | 1.040 (26.42) | 1.040 (26.42) | 1.040 (26.42) | 1.040 (26.42) | .130 (3.30) | SMTC- X 44* |
| QFP 208 DUAL | 1.125 (28.58) | 1.770 (44.96) | 1.125 (28.58) | 1.170 (44.96) | .114 (2.90) | SMTC- X 81 |
| QFP 120,160 DUAL | 1.165 (29.59) | 1.200 (30.48) | 1.165 (29.59) | 1.200 (30.48) | .120 (3.05) | SMTC- X 48 |
| PQFP 240 DUAL | 1.290 (32.77) | 1.330 (33.78) | 1.290 (32.77) | 1.330 (33.78) | .110 (2.79) | SMTC- X 125 |
| QFP 304 DUAL | 1.600 (40.64) | 1.650 (41.91) | 1.650 (41.91) | 1.600 (40.64) | .200 (5.08) | SMTC- X 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 | Recommended | |
|----------------------------|---------------|---------------|-------------|--------------------|-----------|
| | | | | Part No. | Part No. |
| PLCC-20 SOCKET | .360 (9.14) | .360 (9.14) | .115 (2.91) | SMTC- X 144 | SMTC-1144 |
| PLCC-32 SOCKET | .456 (11.58) | .556 (14.12) | .120 (3.05) | SMTC- X 109 | SMTC-1109 |
| PLCC-84 SOCKET DUAL | 1.160 (40.64) | 1.160 (40.64) | .115 (2.91) | SMTC- X 145 | SMTC-1145 |

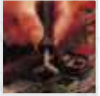
600 SERIES X=0 700 SERIES X=1 FOR ALL QUADS USE 700 SERIES TIP CARTRIDGES

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 Tip Cartridges

MX Tips



BLADE TIP CARTRIDGES

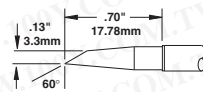
| SMTC-X110** | SMTC-X62 | SMTC-X61 | SMTC-X60 |
|------------------|------------------|------------------|------------------|
| Blade | Blade | Blade | Blade |
| Dual Heater Quad | 0.870" (22.10mm) | 0.620" (15.75mm) | 0.410" (10.41mm) |
| 1.55" (39.37mm) | Long | Long | Long |



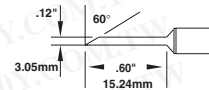
500 SERIES X=5 600 SERIES X=0 700 SERIES X=1 800 SERIES X=8

**=NOT AVAILABLE FOR 500 OR 800 SERIES

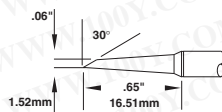
HOOF AND KNIFE TIP CARTRIDGES FOR DRAG SOLDERING



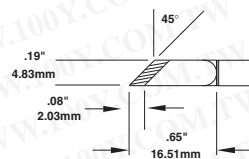
SMTC-X147*
Hoof



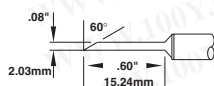
SMTC-X170*
Long Reach Hoof



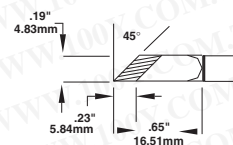
SMTC-X167**
Mini-Hoof



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



SMTC-X169**
Long Reach Hoof

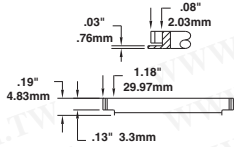


SMTC-X173
Knife
(Increased Tinned Area, .23" 5.84mm)

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

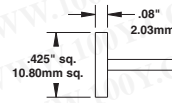
*=NOT AVAILABLE FOR 800 SERIES **=NOT AVAILABLE FOR 500 OR 800 SERIES

OTHER SPECIALITY TIP CARTRIDGES



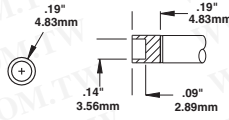
SMTC-X98**

SMT Connector
28 Pin



SMTC-X136**

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



SMTC-X100

Micro XMT
Small Package
Co-Axial Tip

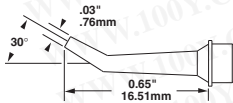
500 SERIES X=5 600 SERIES X=0 700 SERIES X=1 800 SERIES X=8

**=NOT AVAILABLE FOR 500 OR 800 SERIES

Microfine

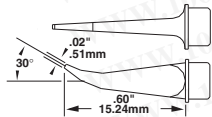
Microfine Rework Tip Cartridges

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.



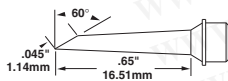
SMTC-X171

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



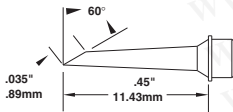
SMTC-X172

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.



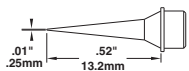
SMTC-X174

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

