

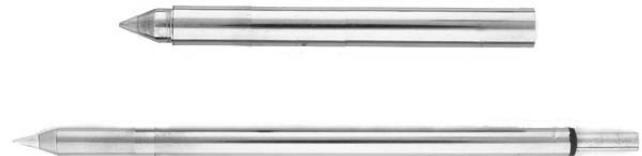
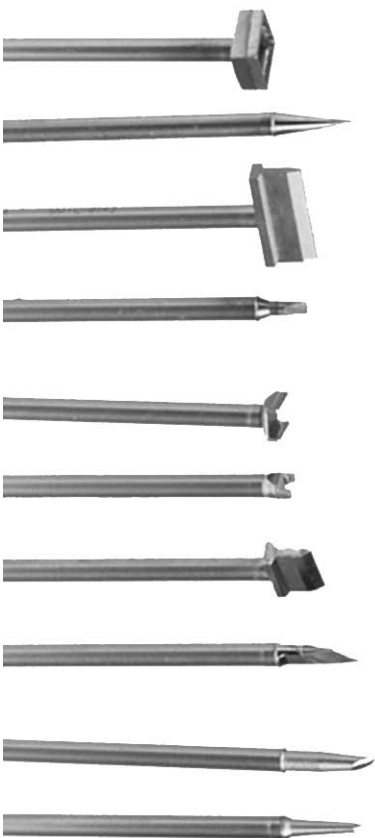


**METCAL**

**OKi**

# Soldering / Desoldering / Rework Tips and Cartridges

SELECTION GUIDE



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**ALL METCAL AND OKi TIPS AND CARTRIDGES  
ARE POWERED BY SMARTHEAT® TECHNOLOGY**

**SmartHeat® Technology = Variable Power / Fixed Temperature**

► See page 33 for full explanation



CHISEL

## STTC SOLDERING CARTRIDGES

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

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

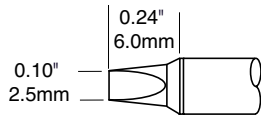
5 = 500 Series and 0 = 600 Series for temperature sensitive applications - 1 = 700 Series for most standard applications.  
 8 = 800 Series for Ceramic and high thermal demand applications.



CHISEL

## STTC SOLDERING CARTRIDGES

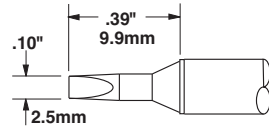
Compatible with: MX-500 and MX-5000 Systems / MX-RM3E and MX-H1-AV hand-pieces

STTC-136P  
STTC-836P

Chisel 30°

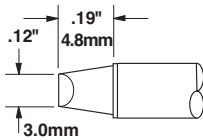
P = Optimised geometry for best thermal performance

2.5mm x 6.0mm (.10" x .24")

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

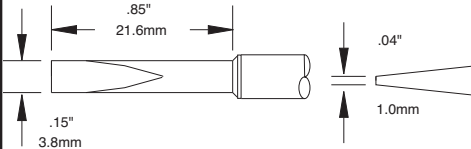
Chisel 30°

2.5mm x 9.9mm (.10" x .39")

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

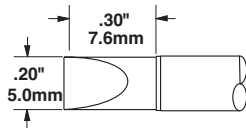
Chisel 90°

3.0mm x 4.8mm (.12" x .19")

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

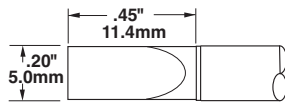
Long Reach Chisel 12°

3.8mm x 21.6mm (.15" x .85")

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

Large Chisel

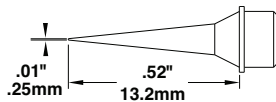
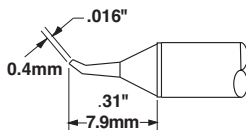
5.0mm x 7.6mm (.20" x .30")

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

Large Chisel

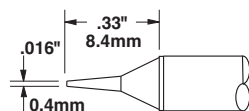
5.0mm x 11.4mm (.20" x .45")

CONICAL

STTC-590  
STTC-090  
STTC-190  
STTC-890Fine and Long Reach Conical  
0.25mm x 13.2mm (.01" x .52")STTC-526  
STTC-026  
STTC-126  
STTC-826

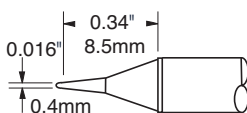
Conical Sharp Bent 30°

0.4mm x 7.9mm (.016" x .31")

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

Conical Sharp

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

STTC-145P  
STTC-845P

Conical Sharp

P = Optimised geometry for best thermal performance

0.4mm x 8.5mm (.016" x .34")

STTC Soldering Cartridges

**STTC SOLDERING CARTRIDGES**

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

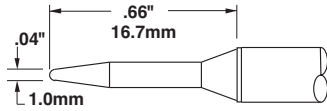
|  |                                              |                                                                                               |
|--|----------------------------------------------|-----------------------------------------------------------------------------------------------|
|  |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



## STTC SOLDERING CARTRIDGES

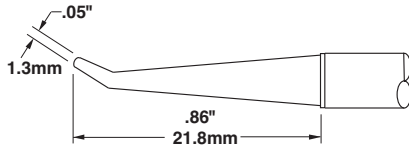
Compatible with: MX-500 and MX-5000 Systems / MX-RM3E and MX-H1-AV hand-pieces

CONICAL



STTC-507  
STTC-007  
STTC-107

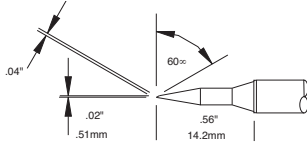
Conical  
1.0mm x 16.7mm (.04" x .66")



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

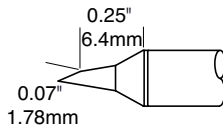
Conical Bent 30°  
Long Reach  
1.3 mm x 21.8mm (.05" x .86")

BEVEL



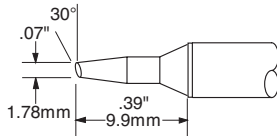
STTC-546  
STTC-046  
STTC-146  
STTC-846

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



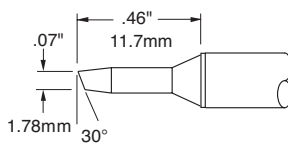
STTC-147P  
STTC-847P

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



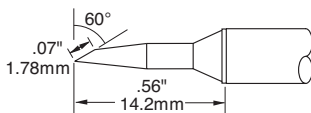
STTC-535  
STTC-035  
STTC-135

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



STTC-505  
STTC-005  
STTC-105

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



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

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

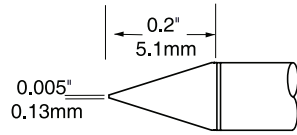
5 = 500 Series and 0 = 600 Series for temperature sensitive applications - 1 = 700 Series for most standard applications.  
8 = 800 Series for Ceramic and high thermal demand applications.



CONICAL

**UFTC ULTRAFINE  
SOLDERING CARTRIDGES**

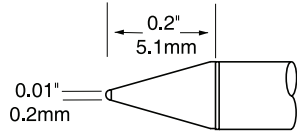
Compatible with: MX-5000 Systems and MX-H2-UF hand-piece



UFTC-7CN01

Conical

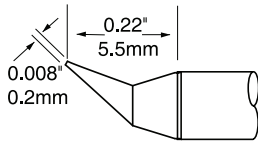
0.13mm x 5.1mm (.005" x .20")



UFTC-7CN02

Conical

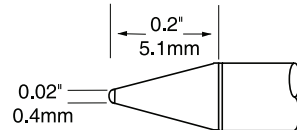
0.2mm x 5.1mm (.01" x .20")



UFTC-7CNB02

Conical Bent

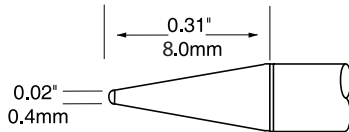
0.2mm x 5.5mm (0.01" x .22")



UFTC-7CN04

Conical

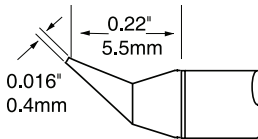
0.4mm x 5.1mm (.02" x 0.20")



UFTC-7CNL04

Conical Long

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

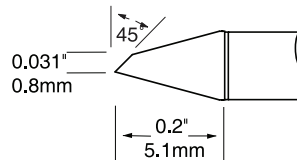


UFTC-7CNB04

Conical Bent

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

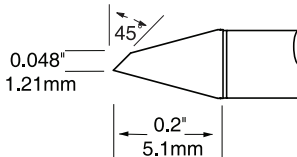
HOOF



UFTC-7DRH408

Hoof Micro

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



UFTC-7DHR412

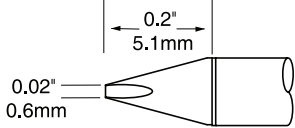
Hoof Micro

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

7 = 700 Series for most standard applications



CHISEL

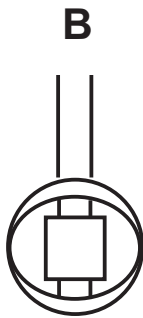
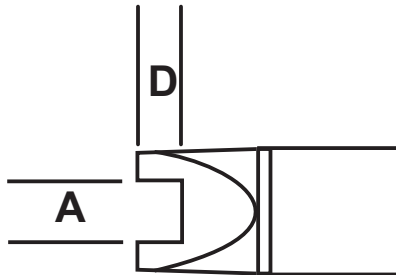
| UFTC ULTRAFINE<br>SOLDERING CARTRIDGES                                            |             | Compatible with: MX-5000 Systems and MX-H2-UF hand-piece |  |
|-----------------------------------------------------------------------------------|-------------|----------------------------------------------------------|--|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

7 = 700 Series for most standard applications

## SMTC REWORK CARTRIDGES

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

SLOT



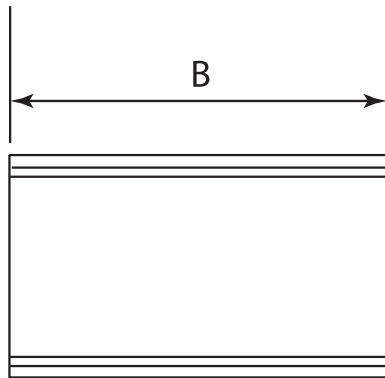
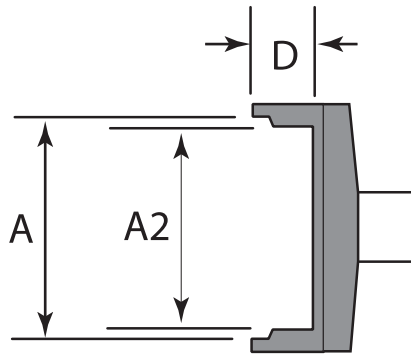
|                                                            | A              | D              | B              | SMT TYPE                    |
|------------------------------------------------------------|----------------|----------------|----------------|-----------------------------|
| SMTC- <del>5</del> 05<br>SMTC- <del>0</del> 05<br>SMTC-105 | 1.7<br>(.068)  | 1.27<br>(.05)  | 2.5<br>(.10)   | SOT-32                      |
| SMTC- <del>5</del> 96<br>SMTC- <del>0</del> 96<br>SMTC-196 | 1.78<br>(.070) | 1.02<br>(.040) | 1.02<br>(.040) | Chip 0402, 0603             |
| SMTC- <del>5</del> 88<br>SMTC- <del>0</del> 88<br>SMTC-188 | 2.03<br>(.080) | 1.52<br>(.60)  | 1.27<br>(.050) | Chip 0402, 0603,<br>0805    |
| SMTC- <del>5</del> 01<br>SMTC- <del>0</del> 01<br>SMTC-101 | 2.3<br>(.090)  | 1.8<br>(.070)  | 1.3<br>(.050)  | Chip 0805                   |
| SMTC- <del>5</del> 02<br>SMTC- <del>0</del> 02<br>SMTC-102 | 3.6<br>(.14)   | 1.8<br>(.07)   | 1.5<br>(.06)   | Chip 1206,1210              |
| SMTC-132                                                   | 3.81<br>(.150) | 2.54<br>(.10)  | 2.41<br>(.095) | Chip Box B EIA<br>SOPM-3528 |
| SMTC- <del>5</del> 36<br>SMTC- <del>0</del> 36<br>SMTC-136 | 4.8<br>(.190)  | 4.06<br>(.16)  | 2.8<br>(.110)  | Chip Box B EIA<br>SOPM-4532 |
| SMTC- <del>5</del> 03<br>SMTC- <del>0</del> 03<br>SMTC-103 | 4.83<br>(.190) | 1.91<br>(.075) | 2.03<br>(.080) | Chip 1812                   |

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

**SMTC REWORK CARTRIDGES**

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

TUNNEL



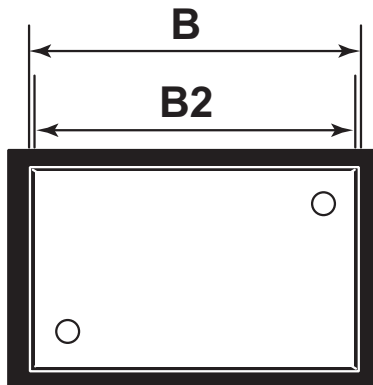
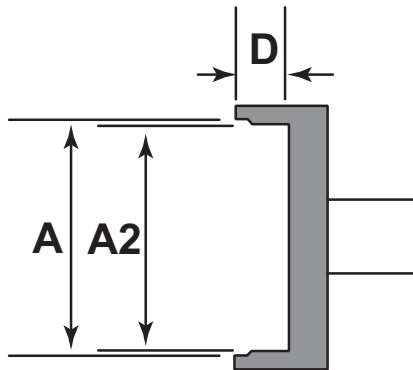
|                        | A               | A2              | D              | B               | SMT TYPE          |
|------------------------|-----------------|-----------------|----------------|-----------------|-------------------|
| SMTC-004<br>SMTC-104   | 5.08<br>(.20)   | 5.08<br>(.20)   | 2.3<br>(.90)   | 4.32<br>(.17)   | SOIC-8            |
| SMTC-006<br>SMTC-106   | 5.08<br>(.20)   | 5.08<br>(.20)   | 2.3<br>(.90)   | 10.16<br>(.40)  | SOIC-14,16        |
| SMTC-0142<br>SMTC-1142 | 5.18<br>(.204)  | 5.18<br>(.204)  | 2.54<br>(.100) | 8.89<br>(.350)  | SOIC-14           |
| SMTC-047<br>SMTC-147   | 8.51<br>(.335)  | 8.51<br>(.335)  | 5.08<br>(.200) | 6.35<br>(.250)  | DPAC              |
| SMTC-126               | 8.64<br>(.340)  | 8.0<br>(.315)   | 1.88<br>(.074) | 18.8<br>(.740)  | SOJ-28,<br>SOM-32 |
| SMTC-007<br>SMTC-107   | 9.53<br>(.375)  | 9.53<br>(.375)  | 3.20<br>(.125) | 18.3<br>(.720)  | SOIC-28           |
| SMTC-009<br>SMTC-109   | 9.53<br>(.375)  | 9.53<br>(.375)  | 3.18<br>(.125) | 15.75<br>(.620) | SOIC-24           |
| SMTC-010<br>SMTC-110   | 9.53<br>(.375)  | 9.53<br>(.375)  | 3.20<br>(.125) | 13.20<br>(.520) | SOIC-20           |
| SMTC-040<br>SMTC-140   | 11.43<br>(.450) | 10.40<br>(.410) | 1.90<br>(.075) | 25.9<br>(1.02)  | SOJ-40,<br>SOM-32 |

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## SMTC REWORK CARTRIDGES

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

QUAD



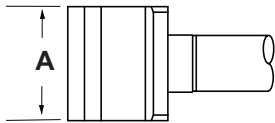
|                        | A                | A2               | D              | B                | B2               | SMT TYPE               |
|------------------------|------------------|------------------|----------------|------------------|------------------|------------------------|
| SMTC-0121<br>SMTC-1121 | 8.38<br>(.330)   | 8.38<br>(.330)   | 2.54<br>(.100) | 8.38<br>(.330)   | 8.38<br>(.330)   | SQFP 48<br>(EIIJA)     |
| SMTC-0112<br>SMTC-1112 | 10.16<br>(.400)  | 9.14<br>(.360)   | 3.80<br>(.150) | 10.16<br>(.400)  | 9.14<br>(.360)   | PLCC 20                |
| SMTC-0120<br>SMTC-1120 | 11.18<br>(.440)  | 11.18<br>(.440)  | 2.54<br>(.100) | 11.18<br>(.440)  | 11.18<br>(.440)  | SQFP 64<br>(EIIJA)     |
| SMTC-1159              | 12.19<br>(.480)  | 11.18<br>(.440)  | 2.79<br>(.110) | 13.21<br>(.520)  | 12.19<br>(.480)  | TQFP 44                |
| SMTC-0113<br>SMTC-1113 | 12.70<br>(.500)  | 11.56<br>(.455)  | 3.80<br>(.150) | 12.70<br>(.500)  | 11.56<br>(.455)  | PLCC 28                |
| SMTC-1116              | 12.70<br>(.500)  | 11.43<br>(.450)  | 3.80<br>(.150) | 15.24<br>(.600)  | 13.97<br>(.550)  | PLCC 32                |
| SMTC-1132              | 13.34<br>(.525)  | 12.32<br>(.485)  | 2.79<br>(.110) | 13.34<br>(.525)  | 12.32<br>(.485)  | TQFP 80                |
| SMTC-0118<br>SMTC-1118 | 15.49<br>(.610)  | 14.48<br>(.570)  | 2.79<br>(.110) | 15.49<br>(.610)  | 14.48<br>(.570)  | VQFP 100<br>(EIIJA)    |
| SMTC-043<br>SMTC-143   | 16.51<br>(.650)  | 16.51<br>(.650)  | 3.30<br>(.130) | 22.48<br>(.885)  | 22.48<br>(.885)  | QFP 100<br>Rectangular |
| SMTC-014<br>SMTC-114   | 17.78<br>(.700)  | 16.76<br>(.660)  | 3.80<br>(.150) | 17.78<br>(.700)  | 16.76<br>(.660)  | PLCC 44                |
| SMTC-117               | 20.32<br>(.800)  | 19.30<br>(.760)  | 3.80<br>(.150) | 20.32<br>(.800)  | 19.30<br>(.760)  | PLCC 52                |
| SMTC-118               | 25.27<br>(.995)  | 19.30<br>(.760)  | 3.80<br>(.150) | 25.27<br>(.995)  | 19.30<br>(.760)  | PLCC 68                |
| SMTC-144               | 26.42<br>(1.040) | 26.42<br>(1.040) | 3.30<br>(.130) | 26.42<br>(1.040) | 26.42<br>(1.040) | QFP 100<br>Square      |

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

**SMTC REWORK CARTRIDGES**

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

BLADE


SMTC-064  
SMTC-164

**A**  
  
5mm  
(.20")

**BLADE TYPE**

Short

SMTC-560  
SMTC-060  
SMTC-160  
SMTC-860

10mm  
(.40")

Long

SMTC-561  
SMTC-061  
SMTC-161  
SMTC-861

15.75mm  
(.62")

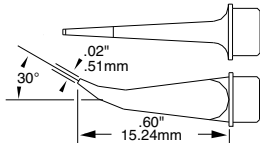
Long

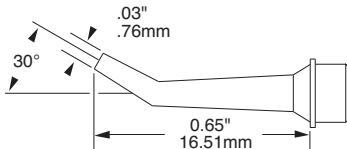
SMTC-562  
SMTC-062  
SMTC-162  
SMTC-862

22mm  
(.86")

Long

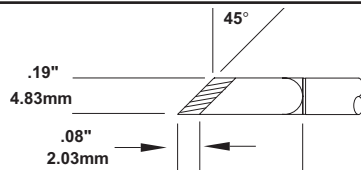
HOOK &amp; CONICAL

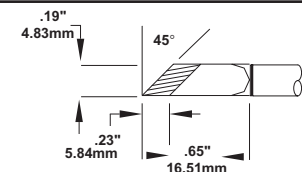

SMTC-5172  
SMTC-0172  
SMTC-1172  
SMTC-8172

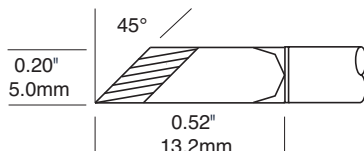
Hook Long 30°  
0.5mm x 15.24mm (.02"x.06")

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

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

KNIFE


SMTC-5161  
SMTC-0161  
SMTC-1161

Knife 45° - Increased tinned  
Area Length 2.03mm (.08")  
4.8mm x 16.51mm (.18"x .65")

SMTC-5173  
SMTC-1173  
SMTC-8173

Knife 45° - Increased tinned  
Area Length 5.84mm (.23")  
4.8mm x 16.51mm (.18"x .65")

STTC-1173P  
STTC-8173P

Knife 45°  
5.0mm x 13.2mm (.20" x .52")

SMTC Rework Cartridges

| SMTC REWORK CARTRIDGES |  | Compatible with: MX-500 and MX-5000 Systems, MX-RM3E and MX-H1-AV hand-pieces |                                                            |
|------------------------|--|-------------------------------------------------------------------------------|------------------------------------------------------------|
| HOOF                   |  | SMTC-5175<br>SMTC-0175<br>SMTC-1175<br>SMTC-8175                              | Micro Hoof 60°<br>0.89mm x 11.43mm (.035"x.45")            |
|                        |  | SMTC-5174<br>SMTC-0174<br>SMTC-1174                                           | Micro Hoof 60° Long Reach<br>1.14mm x 16.51mm (.045"x.65") |
|                        |  | SMTC-5167<br>SMTC-0167<br>SMTC-1167                                           | Hoof 30° Long Reach<br>1.5mm x 16.51mm (.06"x.65")         |
|                        |  | SMTC-5169<br>SMTC-0169<br>SMTC-1169                                           | Hoof 60° Long Reach<br>2mm x 15.24mm (.08" x .60")         |
|                        |  | SMTC-0183<br>SMTC-1183                                                        | Hoof Concave 30° Bent<br>2.5mm x 16.36mm (.01" x.64")      |
|                        |  | SMTC-5170<br>SMTC-0170<br>SMTC-1170                                           | Hoof 60° Long Reach<br>3mm x 15.24mm (.12" x.60")          |
| SPECIALITY             |  | SMTC-5147<br>SMTC-0147<br>SMTC-1147<br>SMTC-8147                              | Hoof 60° Long Reach<br>3.3mm x 17.78mm (.13" x .70")       |
|                        |  | SMTC-198                                                                      | 28 Pin SMT Connector                                       |

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

CONICAL

BLADE

PTTC Tweezer Cartridges

## PTTC TWEEZER CARTRIDGES

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

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

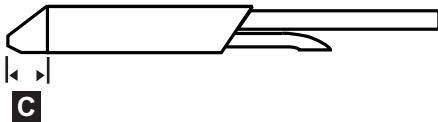
6 = 600 Series for temperature sensitive applications. 1 = 700 Series for most standard applications.  
8 = 800 Series for Ceramic and high thermal demand applications.

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

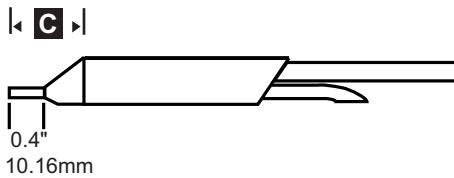
6 = 600 Series for temperature sensitive applications.

## STDC DESOLDER CARTRIDGES

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



Standard



Long Reach

|                        | A              | B              | C              | TYPE       |
|------------------------|----------------|----------------|----------------|------------|
| STDC-102<br>STDC-802   | 0.64<br>(.025) | 1.40<br>(.055) | 11.43<br>(.45) | Standard   |
| STDC-103<br>STDC-803   | 0.76<br>(.029) | 1.68<br>(.066) | 11.17<br>(.44) | Standard   |
| STDC-104<br>STDC-804   | 1.02<br>(.04)  | 1.78<br>(.07)  | 10.92<br>(.43) | Standard   |
| STDC-105<br>STDC-805   | 1.27<br>(.05)  | 2.03<br>(.08)  | 10.66<br>(.42) | Standard   |
| STDC-106<br>STDC-806   | 1.52<br>(.06)  | 2.29<br>(.09)  | 10.41<br>(.41) | Standard   |
| STDC-707<br>STDC-807   | 2.41<br>(.09)  | 3.18<br>(.12)  | 9.14<br>(.36)  | Standard   |
| STDC-703L<br>STDC-803L | 0.76<br>(.03)  | 1.68<br>(.06)  | 21.33<br>(.84) | Long Reach |
| STDC-704L<br>STDC-804L | 1.02<br>(.04)  | 1.79<br>(.07)  | 21.08<br>(.83) | Long Reach |
| STDC-705L<br>STDC-805L | 1.27<br>(.05)  | 2.03<br>(.08)  | 20.82<br>(.82) | Long Reach |

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



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

CHISEL

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



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

### SSC SOLDERING CARTRIDGES

CONICAL

|  |                      |                                                                      |
|--|----------------------|----------------------------------------------------------------------|
|  | SSC-617A<br>SSC-717A | Extra Large Chisel<br>5.3mm x 10mm (.21" x .40")                     |
|  | SSC-690A<br>SSC-790A | Long Reach<br>Micro Fine Conical<br>0.25mm x 13.2mm (.01" x .52")    |
|  | SSC-645A<br>SSC-745A | Conical Sharp Long Reach<br>0.4mm x 19mm (.016" x .75")              |
|  | SSC-622A<br>SSC-722A | Conical Sharp<br>0.51mm x 11.4mm (.02" x .45")                       |
|  | SSC-626A<br>SSC-726A | Conical Sharp Bent 30°<br>0.51mm x 11.4mm (.02" x .45")              |
|  | SSC-654A<br>SSC-754A | Conical Sharp Bent 30°<br>Long Reach<br>0.5mm x 18.5mm (.02" x .73") |
|  | SSC-601A<br>SSC-701A | Conical Sharp<br>1.0mm x 15.2mm (.04" x .60")                        |
|  | SSC-674A<br>SSC-774A | Conical<br>1.4mm x 15mm (.055" x .590")                              |

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



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

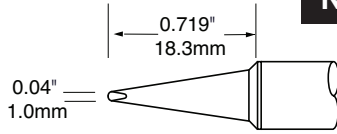
| SSC SOLDERING CARTRIDGES |  |                                                                                                           |
|--------------------------|--|-----------------------------------------------------------------------------------------------------------|
| HOOF              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

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



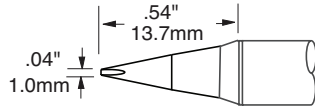
Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems,  
PS-HC3 and MFR-H2-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies

CHISEL

**SxV SOLDERING TIPS****NEW**

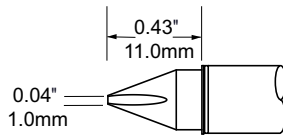
SFV-CH10A  
STV-CH10A  
SCV-CH10A

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

**OLD STYLE**

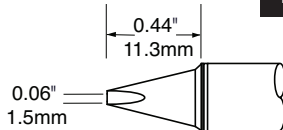
SFV-CH10AR  
STV-CH10AR  
SCV-CH10AR

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



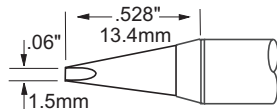
SFV-CH10  
STV-CH10  
SCV-CH10

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

**NEW**

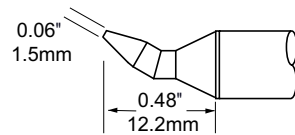
SFV-CH15A  
STV-CH15A  
SCV-CH15A

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

**OLD STYLE**

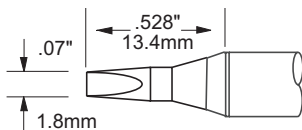
SFV-CH15AR  
STV-CH15AR  
SCV-CH15AR

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



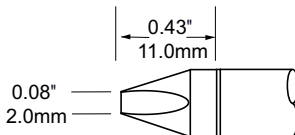
SFV-CHB15  
STV-CHB15  
SCV-CHB15

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



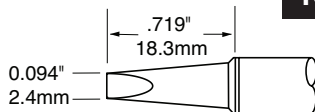
SFV-CH18AR  
STV-CH18AR  
SCV-CH18AR

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



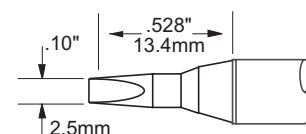
SFV-CH20  
STV-CH20  
SCV-CH20

Chisel  
2.0mm x 11mm (.08" x .43")

**NEW**

SFV-CH24A  
STV-CH24A  
SCV-CH24A

Chisel Long Reach  
*Optimised for thermal performance*  
2.4mm x 18.3mm (.094" x .719")



SFV-CH25AR  
STV-CH25AR  
SCV-CH25AR

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

SxV Soldering Tips



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

| SxV SOLDERING TIPS |                      |                                                                                                                                                                     |
|--------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHISEL             |                      | <b>SFV-CH25</b><br><b>STV-CH25</b><br><b>SCV-CH25</b><br>Chisel<br>2.5mm x 11mm (.10" x .43")                                                                       |
|                    |                      | <b>SFV-CH30AR</b><br><b>STV-CH30AR</b><br><b>SCV-CH30AR</b><br>Chisel<br><i>Original Easy Access Geometry</i><br>3.0mm x 13.4mm (.12" x .528")                      |
|                    |                      | <b>SFV-CH50A</b><br><b>STV-CH50A</b><br><b>SCV-CH50A</b><br>Chisel<br><i>Optimised for thermal performance</i><br>5.0mm x 11.3mm (.20" x .44")                      |
|                    | <b>OLD STYLE</b><br> | <b>SFV-CH50AR</b><br><b>STV-CH50AR</b><br><b>SCV-CH50AR</b><br>Chisel<br><i>Original Easy Access Geometry</i><br>5.0mm x 11.7mm (.197" x .461")                     |
|                    |                      | <b>SFV-CH50</b><br><b>STV-CH50</b><br><b>SCV-CH50</b><br>Chisel<br>5.0mm x 10mm (.20" x .4")                                                                        |
| CONICAL            | <b>OLD STYLE</b><br> | <b>SFV-CNL03AR</b><br><b>STV-CNL03AR</b><br><b>SCV-CNL03AR</b><br>Conical Long Reach<br><i>Original Easy Access Geometry</i><br>0.3mm x 18.4mm (.01" x .724")       |
|                    |                      | <b>SFV-CNB04A</b><br><b>STV-CNB04A</b><br><b>SCV-CNB04A</b><br>Conical Bent Long Reach<br><i>Optimised for thermal performance</i><br>0.4mm x 15.5mm (.016" x .61") |
|                    |                      | <b>SFV-CN05A</b><br><b>STV-CN05A</b><br><b>SCV-CN05A</b><br>Conical Long Reach<br><i>Optimised for thermal performance</i><br>0.4mm x 18.2mm (.016" x .72")         |
|                    | <b>OLD STYLE</b><br> | <b>SFV-CNB04AR</b><br><b>STV-CNB04AR</b><br><b>SCV-CNB04AR</b><br>Conical Bent<br><i>Original Easy Access Geometry</i><br>0.4mm x 19.6mm (.016" x .77")             |
|                    |                      | <b>SFV-CNL04</b><br><b>STV-CNL04</b><br><b>SCV-CNL04</b><br>Conical<br>0.4mm x 13.6mm (.016" x .53")                                                                |

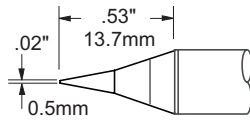


## SxV SOLDERING TIPS

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

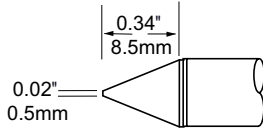
CONICAL

## OLD STYLE



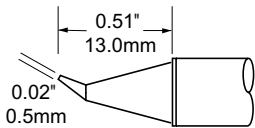
SFV-CN05AR  
STV-CN05AR  
SCV-CN05AR

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



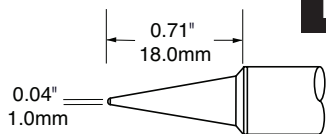
SFV-CN05  
STV-CN05  
SCV-CN05

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



SFV-CNB05  
STV-CNB05  
SCV-CNB05

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

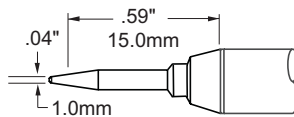


NEW

SFV-CNL10A  
STV-CNL10A  
SCV-CNL10A

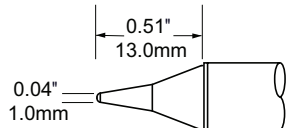
Conical Long Reach  
*Optimised for thermal performance*  
1.0mm x 18mm (.04" x .71")

## OLD STYLE



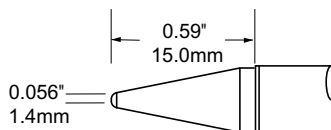
SFV-CNL10AR  
STV-CNL10AR  
SCV-CNL10AR

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



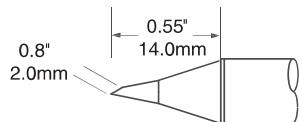
SFV-CNL10  
STV-CNL10  
SCV-CNL10

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



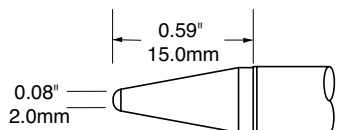
SFV-CNL14  
STV-CNL14  
SCV-CNL14

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



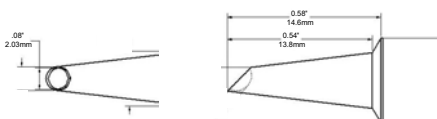
SFV-DRH20  
STV-DRH20  
SCV-DRH20

Conical Bevel  
2.0mm x 14mm (.08" x .55")



SFV-CNL20  
STV-CNL20  
SCV-CNL20

Conical Long Reach  
2.0mm x 14mm (.08" x .59")



SFV-WV20  
STV-WV20  
SCV-WV20

Conical Wave Hoof 45°  
2.0mm x 13.8mm (.08" x .54")

SxV Soldering Tips



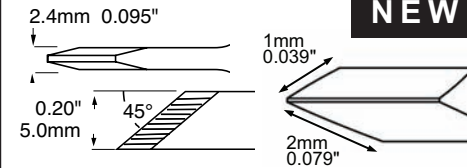
Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems,  
PS-HC3 and MFR-H2-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies

| SxV SOLDERING TIPS |           |                                                                                                                                                                  |
|--------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HOOF               | OLD STYLE |                                                                                                                                                                  |
|                    |           | <b>SFV-DRH420AR</b><br><b>STV-DRH420AR</b><br><b>SCV-DRH420AR</b><br>Hoof 45° Long Reach<br><i>Original Easy Access Geometry</i><br>2.0mm x 20.7mm (.08" x .81") |
|                    |           | <b>SFV-DRH20CP</b><br><b>STV-DRH20CP</b><br><b>SCV-DRH20CP</b><br>Hoof 45°<br><i>CP = Chrome Plating, face only</i><br>2.5mm x 13mm (.10" x .51")                |
|                    |           | <b>SFV-DRH430AR</b><br><b>STV-DRH430AR</b><br><b>SCV-DRH430AR</b><br>Hoof 45° Long Reach<br><i>Original Easy Access Geometry</i><br>3mm x 20.4mm (.12" x .8")    |
|                    |           | <b>SFV-DRH420A</b><br><b>STV-DRH420A</b><br><b>SCV-DRH420A</b><br>Hoof<br><i>Optimised for thermal performance</i><br>3.47mm x 12.2mm (.137" x .48")             |
|                    |           | <b>SFV-DRH30CP</b><br><b>STV-DRH30CP</b><br><b>SCV-DRH30CP</b><br>Hoof 45°<br><i>CP = Chrome Plating, face only</i><br>3.6mm x 13mm (.14" x .51")                |
|                    |           | <b>SFV-DRH640AR</b><br><b>STV-DRH640AR</b><br><b>SCV-DRH640AR</b><br>Hoof 60° Long Reach<br><i>Original Easy Access Geometry</i><br>4mm x 17mm (.15" x .67")     |
|                    |           | <b>SFV-DRH40CP</b><br><b>STV-DRH40CP</b><br><b>SCV-DRH40CP</b><br>Hoof 45°<br><i>CP = Chrome Plating, face only</i><br>4.6mm x 13mm (.18" x .51")                |
| KNIFE              | NEW       |                                                                                                                                                                  |
|                    |           | <b>SFV-DRH440A</b><br><b>STV-DRH440A</b><br><b>SCV-DRH440A</b><br>Hoof<br><i>Optimised for thermal performance</i><br>4.75mm x 13.2mm (.187" x .52")             |
|                    |           | <b>SFV-DRK30AR</b><br><b>STV-DRK30AR</b><br><b>SCV-DRK30AR</b><br>Knife 45° Long Reach<br><i>Original Easy Access Geometry</i><br>3mm x 18.7mm (.12" x .74")     |
| KNIFE              | OLD STYLE |                                                                                                                                                                  |
|                    |           | <b>SFV-DRK45AR</b><br><b>STV-DRK45AR</b><br><b>SCV-DRK45AR</b><br>Knife 45° Long Reach<br><i>Original Easy Access Geometry</i><br>4.5mm x 18.7mm (.18" x .74")   |

**SxV SOLDERING TIPS**

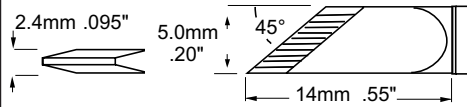
Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems,  
PS-HC3 and MFR-H2-ST hand-pieces, PS-CA3 and MFR-CA2 Coil Assemblies

KNIFE

**NEW**

SFV-DRK45A  
STV-DRK45A  
SCV-DRK45A

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



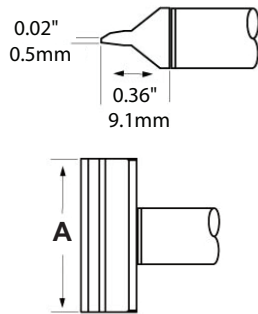
SFV-DRK50  
STV-DRK50  
SCV-DRK50

Knife 45°  
5.0mm x 14mm (.20" x .55")

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

**CxV BLADE TIPS**

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



CFV-BL100 CTV-BL100 CCV-BL100

10mm (.40")

CFV-BL250 CTV-BL250 CCV-BL250

25mm (1")

CFV-BL350 CTV-BL350 CCV-BL350

35mm (1.4")

CFV-BL400 CTV-BL400 CCV-BL400

40mm (1.6")

CFV-BL500 CTV-BL500 CCV-BL500

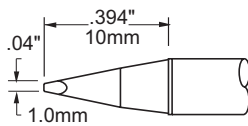
50mm (2")

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

**PHT SOLDERING TIPS**

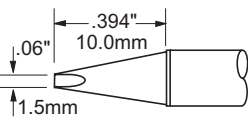
Compatible with: PS-800, PS-800E and PS-900 Systems and PS-CA1 Coil Assembly

CHISEL



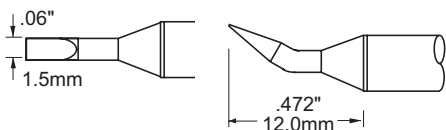
PHT-750315  
PHT-650315

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



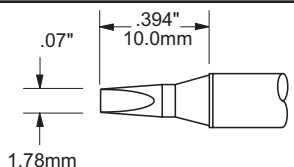
PHT-750325  
PHT-650325

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



PHT-750326  
PHT-650326

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



PHT-750335  
PHT-650335

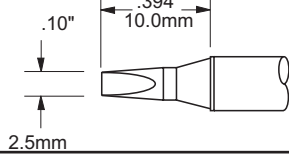
Chisel 30°  
1.78mm x 10mm (.07" x .394")

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

**PHT SOLDERING TIPS**

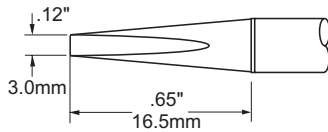
Compatible with: PS-800, PS-800E and PS-900 Systems and PS-CA1 Coil Assembly

CHISEL



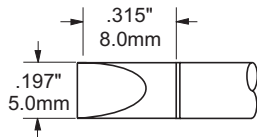
PHT-751355  
PHT-651355

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



PHT-751367  
PHT-651367

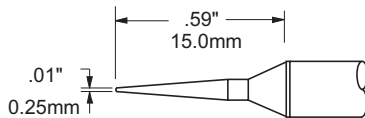
Chisel 30° Long Reach  
3.0mm x 16.5mm (.12" x .65")



PHT-751384  
PHT-651384

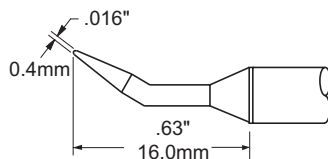
Chisel 30°  
3.0mm x 8mm (.12" x .315")

CONICAL



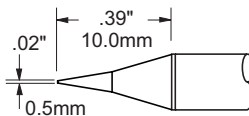
PHT-752017  
PHT-652017

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



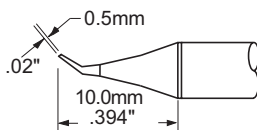
PHT-752327  
PHT-652327

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



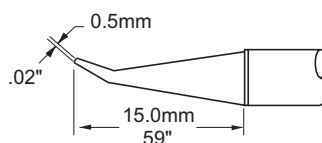
PHT-752035  
PHT-652035

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



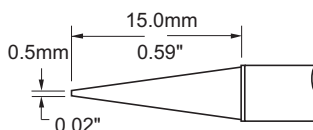
PHT-752335  
PHT-652335

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



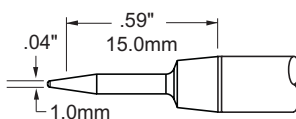
PHT-752337  
PHT-652337

Conical Fine Bent 30°  
Long Reach  
0.5mm x 15mm (.02" x .59")



PHT-753035  
PHT-653035

Conical 30°  
Long Reach  
0.5mm x 15mm (.02" x .59")



PHT-752057  
PHT-652057

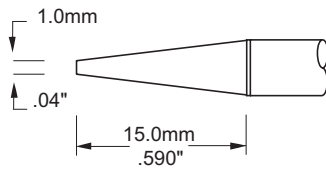
Conical Fine  
Long Reach  
1.0mm x 15mm (.04" x .59")



## PHT SOLDERING TIPS

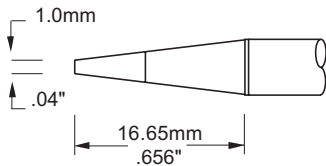
Compatible with: PS-800, PS-800E and PS-900 Systems and PS-CA1 Coil Assembly

CONICAL



PHT-753067  
PHT-653067

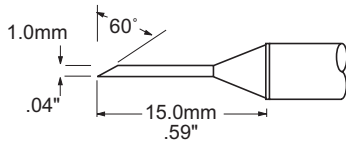
Conical Long Reach  
1.0mm x 15mm (.04" x .59")



PHT-753077  
PHT-653077

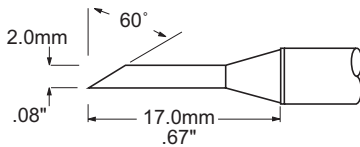
Conical Long Reach  
1.0mm x 16.6mm (.04" x .656")

HOOF



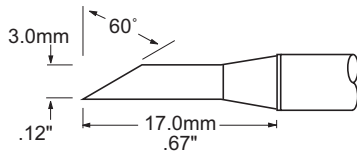
PHT-754627  
PHT-654627

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



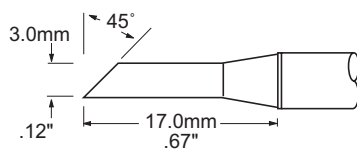
PHT-754667  
PHT-654667

Hoof 60°  
2.0mm x 17mm (.08" x .67")



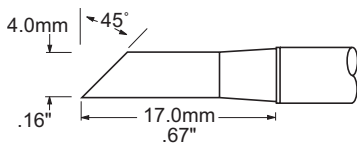
PHT-754687  
PHT-654687

Hoof 60°  
3.0mm x 17mm (.12" x .67")



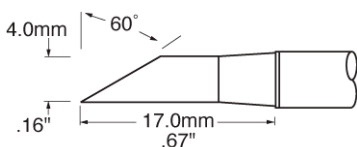
PHT-754487F  
PHT-654487F

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



PHT-654497

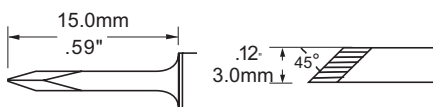
Hoof 45°  
4.00mm x 17mm (.16" x .67")



PHT-654697

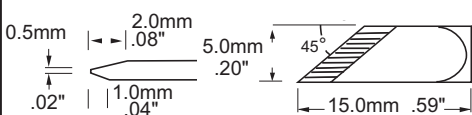
Hoof 60°  
4.00mm x 17mm (.16" x .67")

KNIFE



PHT-755437  
PHT-655437

Knife 45°  
4.5mm x 15mm (.18" x .59")



PHT-755477  
PHT-655477

Knife 45°  
5.0mm x 15mm (.20" x .59")

PHT Soldering Tips


**SxP SOLDERING & REWORK  
CARTRIDGES**

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

|  |                                                          |                                                         |
|--|----------------------------------------------------------|---------------------------------------------------------|
|  | <b>SFP-CH10</b><br><b>STP-CH10</b><br><b>SCP-CH10</b>    | Chisel 30°<br>1.0mm x 9.2mm (.04" x .36")               |
|  | <b>SFP-CH15</b><br><b>STP-CH15</b><br><b>SCP-CH15</b>    | Chisel 30°<br>1.5mm x 10mm (.06" x .39")                |
|  | <b>SFP-CHB15</b><br><b>STP-CHB15</b><br><b>SCP-CHB15</b> | Chisel 30° Bent<br>1.5mm x 12.04mm (.06" x .474")       |
|  | <b>SFP-CH20</b><br><b>STP-CH20</b><br><b>SCP-CH20</b>    | Chisel 30°<br>2.0mm x 10mm (.08" x .4")                 |
|  | <b>SFP-CHL20</b><br><b>STP-CHL20</b><br><b>SCP-CHL20</b> | Chisel 60° Long Reach<br>2.0mm x 16.04mm (.08" x .632") |
|  | <b>SFP-CH25</b><br><b>STP-CH25</b><br><b>SCP-CH25</b>    | Chisel 30°<br>2.5mm x 10mm (.10" x .39")                |
|  | <b>SFP-CH30</b><br><b>STP-CH30</b><br><b>SCP-CH30</b>    | Chisel 30°<br>3.0mm x 11mm (.12" x .43")                |
|  | <b>SFP-CH35</b><br><b>STP-CH35</b><br><b>SCP-CH35</b>    | Chisel 30°<br>3.5mm x 11mm (.12" x .43")                |
|  | <b>SFP-CH50</b><br><b>STP-CH50</b><br><b>SCP-CH50</b>    | Chisel 30°<br>5.0mm x 7.6mm (.20" x .3")                |

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



CONICAL

| SxP SOLDERING & REWORK CARTRIDGES |  | Compatible with: MFR-1110, MFR-1161, MFR-2211, MFR-2241 Systems and MFR-H1-SC hand-piece |                                                         |
|-----------------------------------|--|------------------------------------------------------------------------------------------|---------------------------------------------------------|
|                                   |  | SFP-CN04<br>STP-CN04<br>SCP-CN04                                                         | Conical<br>0.4mm x 8.6mm (.016" x .34")                 |
|                                   |  | SFP-CNB04<br>STP-CNB04<br>SCP-CNB04                                                      | Conical Bent<br>0.4mm x 15.21mm (.016" x .6")           |
|                                   |  | SFP-CNL04<br>STP-CNL04<br>SCP-CNL04                                                      | Conical Long Reach<br>0.4mm x 14.9mm (.016" x .59")     |
|                                   |  | SFP-CN05<br>STP-CN05<br>SCP-CN05                                                         | Conical<br>0.5mm x 4.95mm (.02" x .20")                 |
|                                   |  | SFP-CNB05<br>STP-CNB05<br>SCP-CNB05                                                      | Conical Bent Long Reach<br>0.5mm x 14.7mm (.02" x .58") |
|                                   |  | SFP-CNL06<br>SCP-CNL06                                                                   | Conical Long Reach<br>0.6mm x 14.9mm (.023" x .59")     |
| BEVEL                             |  | SFP-BLV10<br>STP-BLV10<br>SCP-BLV10                                                      | Bevel 60°<br>1.0mm x 14.22mm (.04" x .56")              |

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



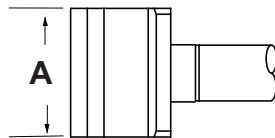
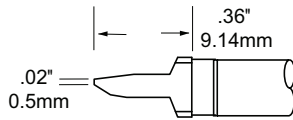
| SxP SOLDERING & REWORK CARTRIDGES |  |                                        | Compatible with: MFR-1110, MFR-1161, MFR-2211, MFR-2241 Systems and MFR-H1-SC hand-piece |
|-----------------------------------|--|----------------------------------------|------------------------------------------------------------------------------------------|
| HOOF                              |  | SFP-DRH05<br>STP-DRH05<br>SCP-DRH05    | Hoof<br>0.5mm x 15.21mm (.02" x .6")                                                     |
|                                   |  | SFP-DRH610<br>STP-DRH610<br>SCP-DRH610 | Hoof<br>1.0mm x 11.6mm (.04" x .45")                                                     |
|                                   |  | SFP-DRH15<br>STP-DRH15<br>SCP-DRH15    | Hoof 15°<br>1.5mm x 16.5mm (.06" x .65")                                                 |
|                                   |  | SFP-DRH615<br>STP-DRH615<br>SCP-DRH615 | Hoof 60°<br>1.5mm x 11.6mm (.06" x .46")                                                 |
|                                   |  | SFP-DRH35<br>STP-DRH35<br>SCP-DRH35    | Hoof Long Reach<br>3.5mm x 17.78mm (.14" x .7")                                          |
| KNIFE                             |  | SFP-DRK50<br>STP-DRK50<br>SCP-DRK50    | Knife<br>5.0mm x 16mm (.20" x .63")                                                      |

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

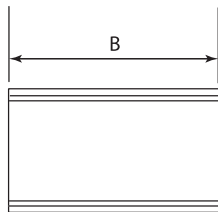
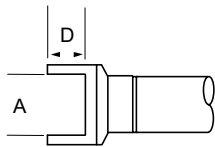
## RxP REWORK CARTRIDGES

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

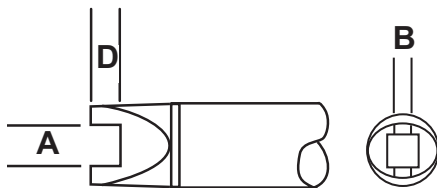
BLADE



TUNNEL



SLOT



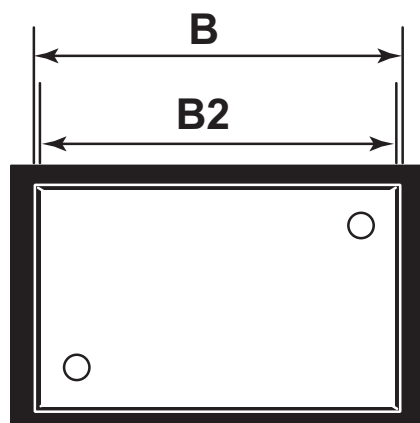
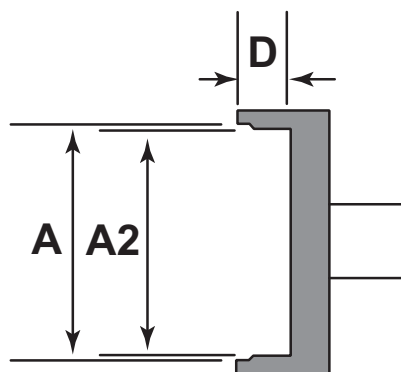
|                    | A               | B               | D               | SMT TYPE             |
|--------------------|-----------------|-----------------|-----------------|----------------------|
| RFP-BL1<br>RCP-BL1 | 10<br>(0.41)    | -               | -               | -                    |
| RFP-BL2<br>RCP-BL2 | 15.6<br>(0.62)  | -               | -               | -                    |
| RFP-BL3<br>RCP-BL2 | 22.1<br>(0.87)  | -               | -               | -                    |
| RFP-DL1<br>RCP-DL1 | 5.18<br>(0.204) | 4.32<br>(0.17)  | 3.22<br>(0.127) | Tunnel<br>SOIC-8     |
| RFP-DL2<br>RCP-DL2 | 5.18<br>(0.204) | 4.32<br>(0.17)  | 2.29<br>(.09)   | Tunnel<br>SOIC-14-16 |
| RFP-DL3<br>RCP-DL3 | 6.86<br>(.270)  | 11.15<br>(0.44) | 2.29<br>(.09)   | Tunnel<br>SOMC-16    |
| RFP-SL1<br>RCP-SL1 | 2.34<br>(.092)  | 1.37<br>(.054)  | 1.78<br>(.07)   | 0805 Chip<br>Package |
| RFP-SL2<br>RCP-SL2 | 3.48<br>(.137)  | 1.63<br>(.064)  | 1.78<br>(.07)   | 0805 Chip<br>Package |

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

**RxP REWORK CARTRIDGES**

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

QUAD

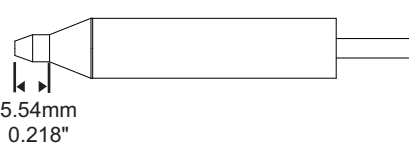


|                      | A               | A2              | D              | B               | B2              | SMT TYPE |
|----------------------|-----------------|-----------------|----------------|-----------------|-----------------|----------|
| RFP-QD4<br>RCP-QD4   | 12.70<br>(.500) | 11.43<br>(.450) | 3.81<br>(.150) | 15.24<br>(.600) | 13.97<br>(.550) | PLCC 32  |
| RFP-QD6<br>RCP-QD6   | 17.78<br>(.700) | 16.76<br>(.660) | 3.81<br>(.150) | 17.78<br>(.700) | 16.76<br>(.660) | PLCC 44  |
| RFP-QD7<br>RCP-QD7   | 25.27<br>(.995) | 24.38<br>(.960) | 5.59<br>(.220) | 25.27<br>(.995) | 24.38<br>(.960) | PLCC 68  |
| RFP-QD10<br>RCP-QD10 | 20.32<br>(.800) | 19.30<br>(.760) | 3.81<br>(.150) | 20.32<br>(.800) | 19.30<br>(.760) | PLCC 52  |
| RFP-QD15<br>RCP-QD15 | 13.34<br>(.525) | 12.32<br>(.485) | 2.79<br>(.110) | 13.34<br>(.525) | 12.32<br>(.485) | TQFP 80  |
| RFP-QD19<br>RCP-QD19 | 16.13<br>(.635) | 16.13<br>(.635) | 3.30<br>(.130) | 16.13<br>(.635) | 16.13<br>(.635) | QFP 44   |
| RFP-QD20<br>RCP-QD20 | 16.51<br>(.650) | 16.51<br>(.650) | 3.30<br>(.130) | 22.48<br>(.885) | 22.48<br>(.885) | QFP 100  |

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

| TxP Tweezer Cartridges |  | Compatible with: MFR-1140, MFR-2240, MFR2241 Systems and MFR-H4-TW hand-piece |                                          |
|------------------------|--|-------------------------------------------------------------------------------|------------------------------------------|
| BLADE                  |  | TFP-BLP1<br>TTP-BLP1<br>TCP-BLP1                                              | 1.0mm x 14mm (.04" x .55")               |
|                        |  | TFP-BLP2<br>TTP-BLP2<br>TCP-BLP2                                              | 2.0mm x 14mm (.08" x .55")               |
|                        |  | TFP-CNP1<br>TTP-CNP1<br>TCP-CNP1                                              | Conical<br>0.4mm x 19.1mm (.015" x .75") |
| HEAVY DUTY             |  |                                                                               | <b>A</b>                                 |
|                        |  | TFP-BLH40<br>TTP-BLH40<br>TCP-BLH40                                           | 6.35mm<br>(.25")                         |
|                        |  | TFP-BLH50<br>TTP-BLH50<br>TCP-BLH50                                           | 16mm<br>(.62")                           |
|                        |  | TFP-BLH60<br>TTP-BLH60<br>TCP-BLH60                                           | 20.5mm<br>(.81")                         |
|                        |  | TFP-BLH70<br>TTP-BLH70<br>TCP-BLH70                                           | 28mm<br>(1.1")                           |

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

| DxP DESOLDERING TIPS                                                                                                                                                                               |                      | Compatible with: MFR-DSX, MFR-DSI, MFR-SDX, MFR-SDI Systems and MFR-HDS hand-piece<br>All dimensions shown are in mm (inches) |                |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|
| <br><br><br><br><b>Standard</b> |                      | <b>A</b>                                                                                                                      | <b>B</b>       | <b>TYPE</b> |
|                                                                                                                                                                                                    | DFP-CN2<br>DCP-CN2   | 0.67<br>(.026)                                                                                                                | 1.80<br>(.070) | Standard    |
|                                                                                                                                                                                                    | DFP-CN3<br>DCP-CN3   | 0.79<br>(.031)                                                                                                                | 2.05<br>(.080) | Standard    |
|                                                                                                                                                                                                    | DFP-CN4<br>DCP-CN4   | 1.05<br>(.041)                                                                                                                | 2.30<br>(.090) | Standard    |
|                                                                                                                                                                                                    | DFP-CN5<br>DCP-CN5   | 1.31<br>(.052)                                                                                                                | 2.65<br>(.104) | Standard    |
|                                                                                                                                                                                                    | DFP-CN6<br>DCP-CN6   | 1.55<br>(.061)                                                                                                                | 2.85<br>(.112) | Standard    |
|                                                                                                                                                                                                    | DFP-CN7<br>DCP-CN7   | 2.44<br>(.096)                                                                                                                | 3.65<br>(.143) | Standard    |
|                                                                                                                                                                                                    | DFP-CNL3<br>DCP-CNL3 | 0.79<br>(.031)                                                                                                                | 2.05<br>(.080) | Long Reach  |
|                                                                                                                                                                                                    | DFP-CNL4<br>DCP-CNL4 | 1.05<br>(.041)                                                                                                                | 2.30<br>(.090) | Long Reach  |
|                                                                                                                                                                                                    | DFP-CNL5<br>DCP-CNL5 | 1.31<br>(.052)                                                                                                                | 2.65<br>(.104) | Long Reach  |

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

## What is SmartHeat® Technology?

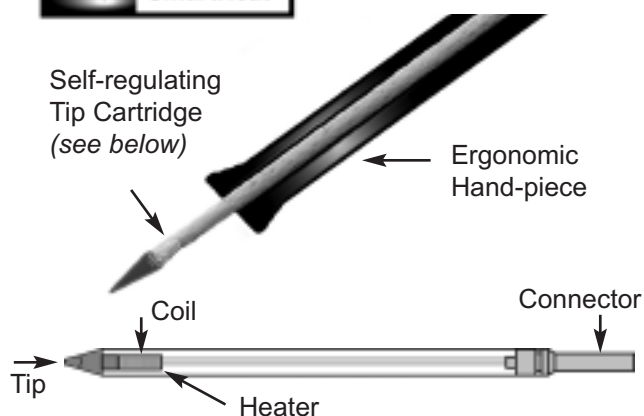
SmartHeat® Technology is unique in that it senses the specific thermal demand directly at the solder pad and delivers the precise quantity and flow of thermal energy during both flux activation and inter-metallic bonding phases without any adjustment and calibration. SmartHeat® is radically different and provides users the only fully safe and thermally effective soldering lead free solution.

Conventional technology senses and responds to the tip temperature and not the thermal energy demand of the solder joint and users are required to calibrate their systems regularly. In today's lead free environment, the conventional technology is thermally inefficient to produce good quality solder joints consistently and leaves process control in the hands of the individual operators.

Good quality joints are a result of precise quantity and flow of thermal energy and not tip temperature. Fixed temperature cartridges and tips offer users a fully safe and thermally effective solution to their lead free soldering needs as well as complete process control. Furthermore, fixed temperature cartridges and tips can offer better tip life because they can operate at a lower temperature than conventional technology. Please speak to our representatives on proper tip selection for your soldering applications.

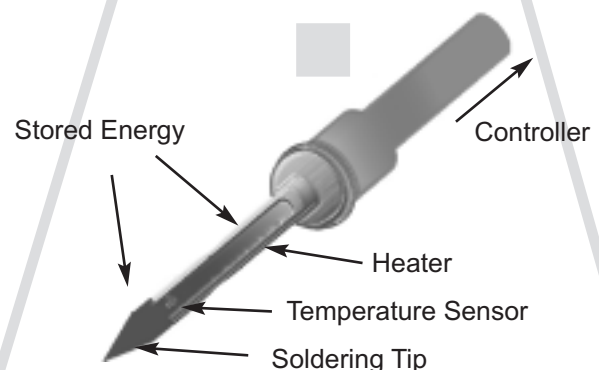
### SmartHeat® Soldering Technology = Variable Power / Fixed Temperature

- ▶ SmartHeat® tips and cartridges sense the load and instantly deliver the right amount of heat directly to the solder joint.
- ▶ The required solder joint temperature drives the heating process, as opposed to the idle tip temperature setting (as in a conventional iron).
- ▶ Operates at lower safer temperatures. Power is delivered in proportion to the load. SmartHeat® technology eliminates overshoot.
- ▶ No calibration required - saves money and eliminates system down-time.



### Conventional Soldering Technology = Fixed Power / Variable Temperature

- ▶ Conventional soldering irons are fixed power systems that store energy in the tip, they don't adjust power in response to thermal demand.
- ▶ The temperature needs to be manually set and adjusted to vary the amount of thermal energy applied, the operator can vary the process.
- ▶ The tip cools as it heats the joint and the heater reheats the tip, often overshooting the set temperature.
- ▶ Conventional soldering systems require calibration.
- ▶ The actual tip temperature can vary widely from set point, slowing the process and causing thermal damage and poor solder joint quality.



## Maximum Tip Temperature for Smartheat® Soldering Cartridges and Tips

| Serie                                                                               | Part Number                                                               | Application           | Max tip temperature |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------|---------------------|
|    |                                                                           |                       |                     |
| 500                                                                                 | STTC-5xx, SMTC-5xxx, SSC-5xx                                              | Temperature Sensitive | 575°F/302°C         |
| 600                                                                                 | STTC-0xx, PTTC-6xx, UFTC-6xxxx,<br>SMTC-0xxx, TATC-6xx, SSC-6xx           | Temperature Sensitive | 675°F/357°C         |
| 700                                                                                 | STTC-1xx, PTTC-7xx, UFTC-7xxxx,<br>SMTC-1xxx, STDC-1xx, STDC-7xx, SSC-7xx | FR4/Glass Fiber       | 775°F/412°C         |
|  |                                                                           |                       |                     |
| 650                                                                                 | PHT-65xxxx                                                                | Temperature Sensitive | 680°F/360°C         |
| 750                                                                                 | PHT-75xxxx                                                                | FR4/Glass Fiber       | 780°F/416°C         |
| T                                                                                   | STP-xxxx, STV-xxxx, TTP-xxx                                               | Temperature Sensitive | 690°F/365°C         |
| F                                                                                   | SFP-xxxx, SFV-xxxx, RFP-xxx,<br>TFP-xxx, DFP-xxx                          | FR4/Glass Fiber       | 790°F/421°C         |
| C                                                                                   | SCP-xxxx, SCV-xxxx, RCP-xxx,<br>TCP-xxx, DCP-xxx                          | Ceramic               | 860°F/460°C         |

# okinternational

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