

# CV-5200 Series

Connection Validation™ Soldering Station



## New Cartridge Smart Numbering Scheme

With the introduction of Connection Validation, Metcal is migrating to a new smart numbering convention that is designed to assist the operator or the process engineer in the selection of the correct cartridge for the application.



### Cartridge & Heater Series Legend

#### Cartridge Series

- CVC – Connection Validation Cartridges, Connection Validation enabled
- SMC – Surface Mount Cartridges
- New cartridge series to be added soon

Heater Series – represented by the x in the part number.

- 5-500 series heaters
- 6-600 series heaters
- 7-700 series heaters
- 8-800 series heaters
- 9-900 series heaters

#### Dimensions

Four digit numerical value, which represents the key dimension of the geometry.

#### Special Designator

Provides an additional level of identification to the cartridge to better identify any unique attributes

|   |                       |                                                                       |
|---|-----------------------|-----------------------------------------------------------------------|
| A | Access                | additional length in one axis, >10mm                                  |
| D | Deep Taper            |                                                                       |
| H | High Mass             | Similar in design to another tip geometry with increased thermal mass |
| J | Reach with Taper      | additional length >10mm with a change in axis, Taper                  |
| L | Long Life             | increased tip plating                                                 |
| N | Non-Wetting           | 1 or more surfaces that are non-wetting                               |
| P | Power                 | reduced length in one-axis, <6.5mm                                    |
| Q | Square                | Square end feature for Flat Blade geometry                            |
| R | Reach                 | additional length >10mm with a change in axis                         |
| S | Standard              |                                                                       |
| T | Taper                 | Taper with Step                                                       |
| U | Round                 | Round end feature for Flat Blade geometry                             |
| V | Concave               |                                                                       |
| W | Enlarged Wetting Area |                                                                       |
| X | Power & Long Life     | reduced length in one-axis, <6.5mm, increased tip plating             |

#### Geometry

|    |             |    |                     |
|----|-------------|----|---------------------|
| BL | Blade       | KN | Knife               |
| BV | Bevel       | MH | Mini-Hoof           |
| CH | Chisel      | QD | Quad                |
| CN | Conical     | SC | Slotted Cylindrical |
| CP | Hollow Cup  | SH | Shield              |
| TN | Tunnel      | SL | Slot                |
| HF | Hoof        | WV | Wave                |
| HK | Hook        | FB | Flat Blade          |
| HP | Hot Plate   | VC | V-Groove Chisel     |
| HS | Heat Stake  | PC | Pin Connector       |
| LG | Long Groove | SK | Socket              |

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## Cartridge Part Number Cross Reference Table

| Current Part Number | New Part Number | Description                                                 |
|---------------------|-----------------|-------------------------------------------------------------|
| STTC-x46            | CVC-xBV6005A    | CARTRIDGE, BEVEL, 0.51MM (0.02 IN), 60DEG                   |
| STTC-x47P           | CVC-xBV6018P    | CARTRIDGE, BEVEL, 1.78MM (0.07 IN), 60DEG                   |
| STTC-x47            | CVC-xBV6018R    | CARTRIDGE, BEVEL, 1.78MM (0.07 IN), 60DEG                   |
| STTC-x25P           | CVC-xCH0010P    | CARTRIDGE, CHISEL, 1MM (0.04 IN), 30DEG                     |
| STTC-x25            | CVC-xCH0010S    | CARTRIDGE, CHISEL, 1MM (0.04 IN), 30DEG                     |
| STTC-x38P           | CVC-xCH0014P    | CARTRIDGE, CHISEL, 1.5MM (0.06 IN), 30DEG                   |
| STTC-x99            | CVC-xCH0015R    | CARTRIDGE, CHISEL, BENT, 1.5MM (0.06 IN), 30DEG             |
| STTC-x38            | CVC-xCH0015S    | CARTRIDGE, CHISEL, 1.35MM (0.053 IN), DEG                   |
| STTC-x42            | CVC-xCH0018A    | CARTRIDGE, CHISEL, LONG, 1.78MM (0.07 IN), 60DEG            |
| STTC-x37LL          | CVC-xCH0018L    | CARTRIDGE, CHISEL, 1.78MM(0.07IN), 30DEG, LL                |
| STTC-x37P           | CVC-xCH0018P    | CARTRIDGE, CHISEL, 1.78MM (0.07 IN), 30DEG                  |
| STTC-x98            | CVC-xCH0018R    | CARTRIDGE, CHISEL, BENT, 1.78MM (0.07 IN), 30DEG            |
| STTC-x37            | CVC-xCH0018S    | CARTRIDGE, CHISEL, 1.78MM (0.07 IN), 30DEG                  |
| STTC-x36P           | CVC-xCH0025P    | CARTRIDGE, CHISEL, 2.5MM (0.1 IN), 30DEG                    |
| STTC-x36            | CVC-xCH0025S    | CARTRIDGE, CHISEL, 2.5MM (0.1 IN), 30DEG                    |
| STTC-x13            | CVC-xCH0030S    | CVC-xCH0030S, CARTRIDGE, CHISEL, 3MM (0.12 IN), 90DEG       |
| STTC-x03            | CVC-xCH0034S    | CARTRIDGE, CHISEL 3.04MM                                    |
| STTC-x65            | CVC-xCH0050A    | CARTRIDGE, CHISEL, 5MM (0.2 IN)                             |
| STTC-x17            | CVC-xCH0050S    | CVC-xCH0050S, CARTRIDGE, CHISEL, LARGE, 5MM (0.2 IN), 30DEG |
| STTC-x20            | CVC-xCH2238A    | CARTRIDGE, TURBO, 500 SER, 120 CHISEL 1/8 X 7/8             |
| STTC-x90            | CVC-xCN0003A    | CARTRIDGE, CONICAL, 0.25MM (0.01 IN)                        |
| STTC-x45P           | CVC-xCN0004P    | CARTRIDGE, CONICAL, 0.4MM (0.016 IN)                        |
| STTC-x26            | CVC-xCN0004R    | CARTRIDGE, CONICAL, BENT, 0.4MM (0.016 IN), 30DEG           |
| STTC-x22            | CVC-xCN1404S    | CARTRIDGE, CONICAL, 0.4MM (0.016 IN)                        |
| STTC-x43            | CVC-xCN0005A    | CARTRIDGE, CONICAL, 0.5MM (0.02 IN)                         |
| STTC-x44            | CVC-xCN0005R    | CARTRIDGE, CONICAL, BENT, 0.5MM (0.02 IN), 30DEG            |
| STTC-x11            | CVC-xCN0005S    | CVC-xCN0005S, CARTRIDGE, CONICAL, 0.5MM (0.02 IN)           |
| STTC-x01            | CVC-xCN0010A    | CARTRIDGE, CONICAL, 1MM (0.04 IN)                           |
| STTC-x01P           | CVC-xCN0010P    | CARTRIDGE, CONICAL, 1MM (0.04 IN)                           |
| STTC-x41            | CVC-xCN0013R    | CARTRIDGE, CONICAL, BENT, LONG, 1.27MM (0.05 IN) 30DEG      |
| STTC-x06            | CVC-xCN1418A    | CARTRIDGE, CONICAL, 1.78MM (0.07 IN)                        |
| STTC-x45            | CVC-xCN1504A    | CARTRIDGE, CONICAL, 0.4MM (0.016 IN)                        |
| STTC-x40            | CVC-xCN1604R    | CARTRIDGE, CONICAL, BENT, 0.4MM (0.016 IN), 30DEG           |
| STTC-x07            | CVC-xCN1710A    | CARTRIDGE, CONICAL, LONG, 1MM (0.04 IN)                     |
| SMTC-x167           | SMC-xHF6015S    | CARTRIDGE, HOOF, 1.5MM (0.06 IN), 60 DEG                    |
| SMTC-x147           | SMC-xHF6033S    | CARTRIDGE, HOOF, 3.3MM (0.13 IN), 60 DEG                    |
| SMTC-x172           | SMC-xHK0005S    | CARTRIDGE, HOOK, LONG, 0.5MM (0.02 IN)                      |

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