

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) |