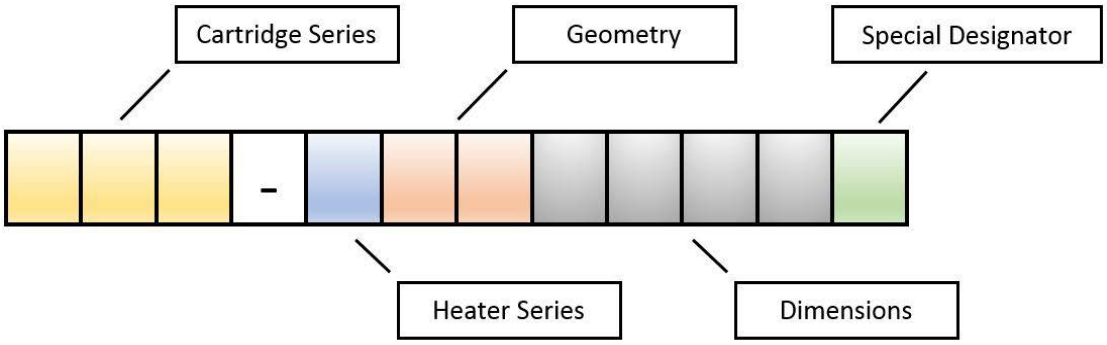
CV-5200 Series

Connection Validation™ Soldering Station

METCAL

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

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

Note: STTC/SMTC cartridges will not work on CV-5200 series systems.

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

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Cartridge Part Number Cross Reference Table

Current Part Number	New Part Number	Description
STTC-x46	**CVC-xBV6005A**	CARTRIDGE, BEVEL, 0.5MM X 14MM LG, 60DEG
STTC-x47P	**CVC-xBV6018P**	CARTRIDGE, BEVEL, 1.8MM X 6MM LG, 60DEG
STTC-x47	**CVC-xBV6018R**	CARTRIDGE, BEVEL, 1.8MM X 14MM LG, 70DEG
STTC-x25P	**CVC-xCH0010P**	CARTRIDGE, CHISEL, 1MM X 6MM LG, 35DEG
STTC-x25	**CVC-xCH0010S**	CARTRIDGE, CHISEL, 1MM, 30DEG
STTC-x38P	**CVC-xCH0014P**	CARTRIDGE, CHISEL, 1.4MM X 6MM LG, 35DEG
STTC-x99	**CVC-xCH0015R**	CARTRIDGE, CHISEL, REACH, 1.4MM X 12MM LG, 30DEG
STTC-x38	**CVC-xCH0014S**	CARTRIDGE, CHISEL, 1.4MM X 10MM LG, 30DEG
STTC-x42	**CVC-xCH0018A**	CARTRIDGE, CHISEL, ACCESS, 1.8MM X 15MM LG, 60DEG
STTC-x37LL	**CVC-xCH0018L**	CARTRIDGE, CHISEL, 1.8MM X 10MM LG, 30DEG, LL
STTC-x37P	**CVC-xCH0018P**	CARTRIDGE, CHISEL, 1.8MM X 6MM LG, 35DEG
STTC-x98	**CVC-xCH0018R**	CARTRIDGE, CHISEL, REACH, 1.8MM X 10MM LG, 30DEG
STTC-x37	**CVC-xCH0018S**	CARTRIDGE, CHISEL, 1.8MM X 10MM LG, 30DEG
STTC-x36P	**CVC-xCH0025P**	CARTRIDGE, CHISEL, 2.5MM X 6MM LG, 30DEG
STTC-x36	**CVC-xCH0025S**	CARTRIDGE, CHISEL, 2.5MM X 10MM LG, 30DEG
STTC-x13	**CVC-xCH0030S**	CARTRIDGE, CHISEL, 3MM X 5MM LG, 90DEG
STTC-x03	**CVC-xCH0034S**	CARTRIDGE, CHISEL 3MM X 9MM LG
STTC-x65	**CVC-xCH0050A**	CARTRIDGE, CHISEL, 5MM X 12MM LG, 22DEG
STTC-x17	**CVC-xCH0050S**	CARTRIDGE, CHISEL, LARGE, 5MM X 8MM LG, 30DEG
STTC-x20	**CVC-xCH2238A**	CARTRIDGE, CHISEL, 3.8MM X 22MM LG, 12DEG
STTC-x90	**CVC-xCN0003A**	CARTRIDGE, CONICAL, 0.25MM X 13.5MM LG
STTC-x45P	**CVC-xCN0004P**	CARTRIDGE, CONICAL, 0.4MM X 9MM LG
STTC-x26	**CVC-xCN0004R**	CARTRIDGE, CONICAL, REACH, 0.6MM X 8MM LG, 35DEG
STTC-x22	**CVC-xCN1404S**	CARTRIDGE, CONICAL, 0.4MM X 9MM LG
STTC-x43	**CVC-xCN0005A**	CARTRIDGE, CONICAL, 0.5MM X 15MM LG
STTC-x44	**CVC-xCN0005R**	CARTRIDGE, CONICAL, REACH, 0.5MM X 15MM LG, 30DEG
STTC-x11	**CVC-xCN0005S**	CARTRIDGE, CONICAL, 0.5MM X 5MM LG
STTC-x01	**CVC-xCN0010A**	CARTRIDGE, CONICAL, 1MM X 13MM LG
STTC-x01P	**CVC-xCN0010P**	CARTRIDGE, CONICAL, 1MM X 6.5MM LG
STTC-x41	**CVC-xCN0013R**	CARTRIDGE, CONICAL, REACH, 1.3MM X 22MM LG,30DEG
STTC-x06	**CVC-xCN1304A**	CARTRIDGE, CONICAL, 1.78MM (0.07 IN)
STTC-x45	**CVC-xCN1504A**	CARTRIDGE, CONICAL, 0.4MM X 15MM LG
STTC-x40	**CVC-xCN1604R**	CARTRIDGE, CONICAL, REACH, 0.8MM X 16MM LG, 30DEG
STTC-x07	**CVC-xCN1710A**	CARTRIDGE, CONICAL, ACCESS, 1MM X 17MM LG
SMTC-x167	**SMC-xHF6015S**	CARTRIDGE, HOOF, 1.5MM X 16.5MM LG, 60 DEG
SMTC-x147	**SMC-xHF6033S**	CARTRIDGE, HOOF, 3.3MM X 17MM LG, 60 DEG
SMTC-x172	**SMC-xHK0005S**	CARTRIDGE, HOOK, LONG, 0.5MM

Note: STTC/SMTC cartridges will not work on CV-5200 series systems.

Cartridge Part Number Cross Reference Table

Old Part Number	New Part Number	Description
STTC-x05	**CVC-xBV3018S**	CARTRIDGE, BEVEL, 1.78MM, 30DEG
STTC-x15	**CVC-xBV3018P**	CARTRIDGE, BEVEL, 1.27MM, 30DEG
STTC-x24	**CVC-xBV4001S**	CARTRIDGE, BEVEL, 1MM, 30DEG
STTC-x35	**CVC-xBV6018S**	CARTRIDGE, BEVEL, 1.78MM, 30DEG
STTC-x14	**CVC-xCH0020S**	CARTRIDGE, BEVEL, 2MM, 45DEG
STTC-x31	**CVC-xCN0010S**	CARTRIDGE, CONICAL, 1MM
STTC-x32	**CVC-xCN1002S**	CARTRIDGE, CONICAL, 1.78MM
STTC-x02	**CVC-xCN1208S**	CARTRIDGE, CONICAL, 1.78MM
STTC-x12	**CVC-xCN4302S**	CARTRIDGE, CONICAL, 2MM
STTC-x16	**CVC-xCN4805S**	CARTRIDGE, CONICAL, 0.5MM
STTC-x83	**CVC-xLG1802A**	CARTRIDGE, CONICAL, 2MM
SMTC-x60	**SMC-xBL0010S**	CARTRIDGE, BLADE, 10MM
SMTC-xBL150	**SMC-xBL0015H**	CARTRIDGE, HIGH MASS, BLADE 15MM
SMTC-x61	**SMC-xBL0016S**	CARTRIDGE, BLADE, 15.75MM
SMTC-x62	**SMC-xBL0022S**	CARTRIDGE, BLADE, 22MM
SMTC-xBL250	**SMC-xBL0025H**	CARTRIDGE, HIGH MASS, BLADE 25MM
SMTC-xBL350	**SMC-xBL0035H**	CARTRIDGE, HIGH MASS, BLADE 35MM
SMTC-x184	**SMC-xHF0015V**	CARTRIDGE, CONCAVE HOOF, 1.5MM
SMTC-x185	**SMC-xHF0020V**	CARTRIDGE, CONCAVE HOOF, 2MM
SMTC-x186	**SMC-xHF0030V**	CARTRIDGE, CONCAVE HOOF, 3MM
SMTC-x183	**SMC-xHF3025S**	CARTRIDGE, HOOF, CONCAVE, 2.5MM, BENT, 30 DEG
SMTC-x175	**SMC-xHF6009S**	CARTRIDGE, HOOF, 0.89MM, 60 DEG
SMTC-x174	**SMC-xHF6011S**	CARTRIDGE, HOOF, LONG, 1.1MM, 60 DEG
SMTC-x169	**SMC-xHF6020S**	CARTRIDGE, HOOF, LONG, 2MM, 60 DEG
SMTC-x170	**SMC-xHF6030S**	CARTRIDGE, HOOF, LONG, 3MM, 60 DEG
SMTC-x171	**SMC-xHK0008S**	CARTRIDGE, CONICAL, BENT, 0.76MM
SMTC-x165	**SMC-xKN0025S**	CARTRIDGE, KNIFE, 2.5MM
SMTC-x161	**SMC-xKN0048S**	CARTRIDGE, KNIFE, THIN TIN LENGTH, 4.8MM
SMTC-x173	**SMC-xKN0048W**	CARTRIDGE, KNIFE, WIDE TIN LENGTH, 4.8MM
SMTC-x173P	**SMC-xKN0050P**	CARTRIDGE, KNIFE, POWER, 5MM
SMTC-x173PLL	**SMC-xKN0050X**	CARTRIDGE, KNIFE, 5MM

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