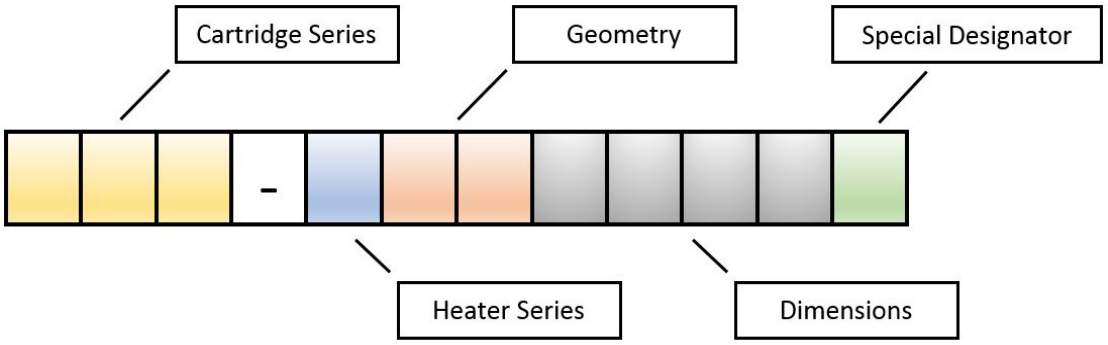
CV-5200 Series

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

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

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, 0.51MM (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, 12O 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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