

SmartHeat®

**Hand Soldering**

SMT Rework

Desoldering

BGA Rework

CSP Rework

Fume

Extraction

Fluid

Dispensing

Terms &

Conditions

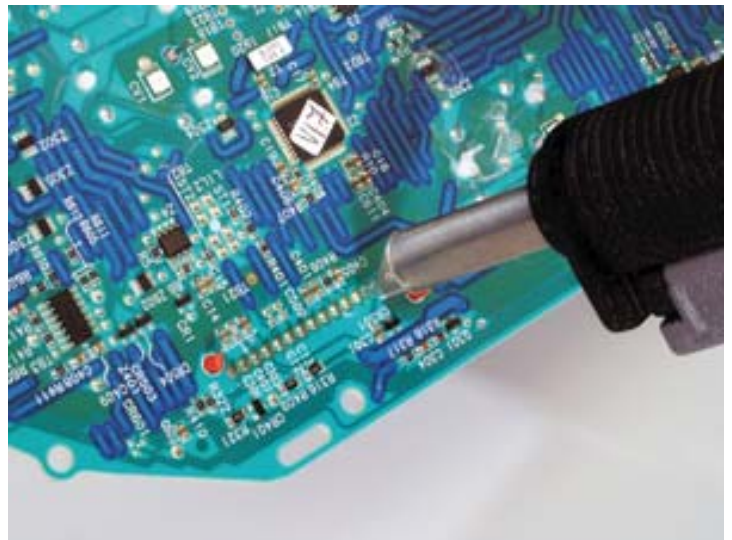
metcal > products > hand soldering > MX rework systems > **STDC tips**

**Choosing the correct desolder tip cartridge**

Proper tip cartridge selection is important for getting the best results. Since changing tip cartridges is so quick and easy, there is no need to compromise.

**Choosing the correct Series**

STDC cartridges are highly durable and designed for high heat transfer, making desoldering on multi-layer boards much easier. Desolder cartridges are available in three temperature ranges (600, 700, and 800 Series). A typical board usually requires a 700 Series tip cartridge. Try a 600 Series tip cartridge first for thermally sensitive components or small single-sided boards. 800 Series tip cartridges can help you do the most stubborn jobs.



**Choosing the correct geometry**



Select a tip cartridge with an inside diameter (A) larger than the lead diameter, and an outside diameter

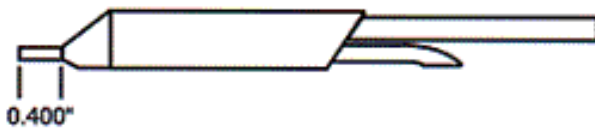
(B) that is approximately the same size as the pad.



### Standard STDC tip cartridge



### Long reach STDC tip cartridge



Long reach cartridges are available in three popular geometries for reaching hard-to-access leads.

### Dimensions in inches

Diameter A (inside)	Diameter B (outside)	600 Series	700 Series	800 Series	Long Reach*	Long Reach (800 Series)
0.025	0.055	STDC-002	STDC-102	STDC-802	N/A	N/A
0.030	0.066	STDC-003	STDC-103	STDC-803	STDC-703L	STDC-803L
0.040	0.070	STDC-004	STDC-104	STDC-804	STDC-704L	STDC-804L
0.050	0.080	STDC-005	STDC-105	STDC-805	STDC-705L	STDC-805L
0.060	0.090	STDC-006	STDC-106	STDC-806	N/A	N/A
0.095	0.125	STDC-007	STDC-107	STDC-807	N/A	N/A

### Dimensions in millimeters

Diameter	Diameter	600 Series	700 Series	800 Series	Long Reach*	Long Reach
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A (inside)	B (outside)					(800 Series)
0,6	1,4	STDC-002	STDC-102	STDC-802	N/A	N/A
0,7	1,7	STDC-003	STDC-103	STDC-803	STDC-703L	STDC-803L
1,0	1,8	STDC-004	STDC-104	STDC-804	STDC-704L	STDC-804L
1,3	2,0	STDC-005	STDC-105	STDC-805	STDC-705L	STDC-805L
1,5	2,3	STDC-006	STDC-106	STDC-806	N/A	N/A
2,4	3,2	STDC-007	STDC-107	STDC-807	N/A	N/A

\*When using long reach cartridges, 600 Series heat delivery is insufficient for fast, safe device removal. Therefore, long reach desolder tip cartridges are only available in 700 and 800 Series.

**Please Note:** STDC cartridges are for use in the MX-DS1 pistol grip desolder handpiece only. They cannot be used with the SP440. 800 Series tip cartridges are available should a higher operating temperature be necessary. These are not recommended.

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