



## "MAXPAK" Round Cartridge Dimensional Specifications

### Dimensional Tolerances

Standard dimensional tolerances are shown in the right hand column. High precision tolerances can be maintained if required. All standard imperial and metric diameters and their related length limits are outlined in the tables shown below. Diameters and lengths not shown can be produced as a specialty item if required.

Diameter - See diameter tolerances in the tables below.

Length - All units < 4 1/2" long +/- 3/32"  
 - 1/8" & 3/16" dia. units > 4 1/2" long +/- 3% of length  
 - All other units > 4 1/2" long +/- 2% of length

Camber - .015 inches per foot. Slight camber does not normally present a problem since the heater will flex sufficiently to enter a straight, clean hole.

Imperial Diameter Specifications			Standard Length Limits			
Nominal Dia. (Inches)	Actual Dia. (Inches)	Actual Diameter (Millimeters)	Minimum Length (Inches)	Minimum Length (Millimeters)	Maximum Length (Inches)	Maximum Length (Millimeters)
1/8	.122 +/- .002	3.11	1 1/4	31.8	12	304.8
3/16	.184 +/- .002	4.67	1 1/4	31.8	12	304.8
1/4	.246 +/- .002	6.25	7/8	22.2	36	914.4
5/16	.308 +/- .002	7.82	7/8	22.2	36	914.4
3/8	.371 +/- .002	9.42	7/8	22.2	48	1219.2
7/16	.433 +/- .002	11.00	7/8	22.2	48	1219.2
1/2	.496 +/- .002	12.60	7/8	22.2	60	1524.0
9/16	.558 +/- .002	14.15	1	25.4	60	1524.0
5/8	.621 +/- .002	15.77	1	25.4	72	1828.8
11/16	.683 +/- .002	17.35	1	25.4	72	1828.8
3/4	.746 +/- .002	18.95	1	25.4	72	1828.8
7/8	.871 +/- .003	22.12	1 1/4	31.8	72	1828.8
15/16	.933 +/- .003	23.70	1 1/4	31.8	72	1828.8
1	.996 +/- .003	25.30	1 1/4	31.8	72	1828.8
1 1/8	1.120 +/- .003	28.44	1 1/4	31.8	72	1828.8
1 3/16	1.181 +/- .003	30.00	1 1/4	31.8	72	1828.8
1 1/4	1.245 +/- .003	31.62	1 1/4	31.8	72	1828.8

Metric Diameter Specifications			Standard Length Limits			
Nominal Dia. (Millimeters)	Actual Dia. (Millimeters)	Actual Diameter (Inches)	Minimum Length (Millimeters)	Minimum Length (Inches)	Maximum Length (Millimeters)	Maximum Length (Inches)
6	5.90 +/- .05	.232	22.2	7/8	914.4	36
6.5	6.40 +/- .05	.252	22.2	7/8	914.4	36
7	6.90 +/- .05	.275	22.2	7/8	914.4	36
8	7.90 +/- .05	.311	22.2	7/8	1219.2	48
8.5	8.40 +/- .05	.330	22.2	7/8	1219.2	48
10	9.90 +/- .05	.390	22.2	7/8	1219.2	48
11	10.90 +/- .05	.429	22.2	7/8	1524	60
12	11.90 +/- .05	.469	22.2	7/8	1524	60
12.5	12.40 +/- .05	.488	22.2	7/8	1524	60
14	13.90 +/- .05	.547	22.2	7/8	1524	60
15	14.90 +/- .05	.587	25.4	1	1828.8	72
16	15.90 +/- .05	.626	25.4	1	1828.8	72
17	16.90 +/- .05	.665	25.4	1	1828.8	72
19	18.90 +/- .05	.744	25.4	1	1828.8	72
20	19.90 +/- .05	.783	25.4	1	1828.8	72