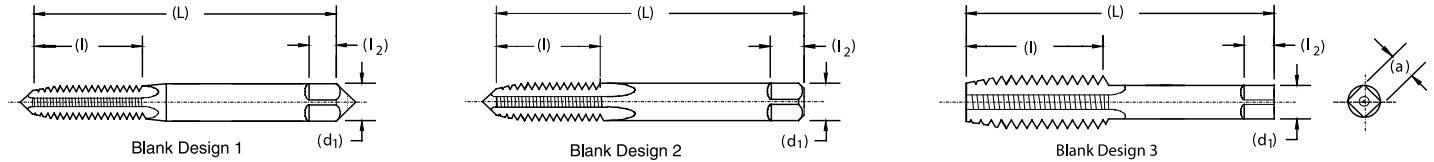


# STANDARD TAP DIMENSIONS, GROUND THREAD

## USCTI TABLE 302



Nominal Diameter Range Inches over to (incl.)	Machine Screw Size Number		Nominal Fractional Diameter fraction inch		Nominal Metric Diameter millimeters inch		Blank Design no.	(all dimensions in inches)				
	MS	inch		inch		inch		Overall Length L	Thread Length l	Square Length l2	Shank Diameter d1	Square Size a
.052 .065	0	.0600			M1.6	.0630	1	1.63	.31	.19	.1410	.110
.065 .078	1	.0730			M1.8	.0709	1	1.69	.38	.19	.1410	.110
.078 .091	2	.0860			M2, M2.2	.0787, .0866	1	1.75	.44	.19	.1410	.110
.091 .104	3	.0990			M2.5	.0984	1	1.81	.50	.19	.1410	.110
.104 .117	4	.1120					1	1.88	.56	.19	.1410	.110
.117 .130	5	.1250			M3	.1181	1	1.94	.63	.19	.1410	.110
.130 .145	6	.1380			M3.5	.1378	1	2.00	.69	.19	.1410	.110
.145 .171	8	.1640			M4	.1575	1	2.13	.75	.25	.1680	.131
.171 .197	10	.1900			M4.5, M5	.1772, .1969	1	2.38	.88	.25	.1940	.152
.197 .223	12	.2160					1	2.38	.94	.28	.2200	.165
.223 .260			1/4	.2500	M6	.2362	2	2.50	1.00	.31	.2550	.191
.260 .323			5/16	.3125	M7, M8	.2756, .3150	2	2.72	1.13	.38	.3180	.238
.323 .395			3/8	.3750	M10	.3937	2	2.94	1.25	.44	.3810	.286
.395 .448			7/16	.4375			3	3.16	1.44	.41	.3230	.242
.448 .510			1/2	.5000	M12	.4724	3	3.38	1.66	.44	.3670	.275
.510 .573			9/16	.5625	M14	.5512	3	3.59	1.66	.50	.4290	.322
.573 .635			5/8	.6250	M16	.6299	3	3.81	1.81	.56	.4800	.360
.635 .709			11/16	.6875	M18	.7087	3	4.03	1.81	.63	.5420	.406
.709 .760			3/4	.7500			3	4.25	2.00	.69	.5900	.442
.760 .823			13/16	.8125	M20	.7874	3	4.47	2.00	.69	.6520	.489
.823 .885			7/8	.8750	M22	.8661	3	4.69	2.22	.75	.6970	.523
.885 .948			15/16	.9375	M24	.9449	3	4.91	2.22	.75	.7600	.570
.948 1.010			1	1.0000	M25	.9843	3	5.13	2.50	.81	.8000	.600
1.010 1.073			1-1/16	1.0625	M27	1.0630	3	5.13	2.50	.88	.8960	.672
1.073 1.135			1-1/8	1.1250			3	5.44	2.56	.88	.8960	.672
1.135 1.198			1-3/16	1.1875	M30	1.1811	3	5.44	2.56	1.00	1.0210	.766
1.198 1.260			1-1/4	1.2500			3	5.75	2.56	1.00	1.0210	.766
1.260 1.323			1-5/16	1.3125	M33	1.2992	3	5.75	2.56	1.06	1.1080	.831
1.323 1.385			1-3/8	1.3750			3	6.06	3.00	1.06	1.1080	.831
1.385 1.448			1-7/16	1.4375	M36	1.4173	3	6.06	3.00	1.13	1.2330	.925
1.448 1.510			1-1/2	1.5000			3	6.38	3.00	1.13	1.2330	.925
1.510 1.635			1-5/8	1.6250	M39	1.5354	3	6.69	3.19	1.13	1.3050	.979
1.635 1.760			1-3/4	1.7500	M42	1.6535	3	7.00	3.19	1.25	1.4300	1.072
1.760 1.885			1-7/8	1.8750			3	7.31	3.56	1.25	1.5190	1.139
1.885 2.010			2	2.0000	M48	1.8898	3	7.63	3.56	1.38	1.6440	1.233
2.010 2.135			2 1/8	2.1250			3	8.00	3.56	1.38	1.7690	1.327
2.135 2.260			2 1/4	2.2500	M56	2.2047	3	8.25	3.56	1.44	1.8940	1.420
2.260 2.385			2 3/8	2.3750			3	8.50	4.00	1.44	2.0190	1.514
2.385 2.510			2 1/2	2.5000			3	8.75	4.00	1.50	2.1000	1.575
2.510 2.635			2 5/8	2.6250	M64	2.5197	3	8.75	4.00	1.50	2.2250	1.669
2.635 2.760			2 3/4	2.7500			3	9.25	4.00	1.56	2.3500	1.762
2.760 2.885			2 7/8	2.8750	M72	2.8346	3	9.25	4.00	1.56	2.4750	1.856
2.885 3.010			3	3.0000			3	9.75	4.56	1.63	2.5430	1.907
3.010 3.135			3 1/8	3.1250			3	9.75	4.56	1.63	2.6680	2.001
3.135 3.260			3 1/4	3.2500	M80	3.1496	3	10.00	4.56	1.75	2.7930	2.095
3.260 3.385			3 3/8	3.3750			3	10.00	4.56	1.75	2.8830	2.162
3.385 3.510			3 1/2	3.5000			3	10.25	4.94	2.00	3.0080	2.256
3.510 3.635			3 5/8	3.6250	M90	3.5433	3	10.25	4.94	2.00	3.1330	2.350
3.635 3.760			3 3/4	3.7500			3	10.50	5.31	2.13	3.2170	2.413
3.760 3.885			3 7/8	3.8750			3	10.50	5.31	2.13	3.3420	2.506
3.885 4.010			4	4.0000	M100	3.9370	3	10.75	5.31	2.25	3.4670	2.600