

Screw Size	Major Diameter	TPI	Minor Diameter	Tap Drill			
				75% Thread for Aluminum, Brass, Plastics		50% Thread for Stainless, Cast Iron & Iron	
				Drill Size	Dec. Eq.	Drill Size	Dec. Eq.
0	.0600	80	.0447	3/64	.0469	55	.0520
1	.0730	64	.0538	53	.0595	1/16	.0625
		72	.0560	53	.0595	52	.0635
2	.0860	56	.0641	50	.0700	49	.0730
		64	.0668	50	.0700	48	.0760
3	.0990	48	.0734	47	.0785	44	.0860
		56	.0771	45	.0820	43	.0890
4	.1120	40	.0813	43	.0890	41	.0960
		48	.0864	42	.0935	40	.0980
5	.125	40	.0943	38	.1015	7/64	.1094
		44	.0971	37	.1040	35	.1100
6	.138	32	.0997	36	.1065	32	.1160
		40	.1073	33	.1130	31	.1200

8	.1640	32	.1257	29	.1360	27	.1440
		36	.1299	29	.1360	26	.1470
10	.1900	24	.1389	25	.1495	20	.1610
		32	.1517	21	.1590	18	.1695
12	.2160	24	.1649	16	.1770	12	.1890
		28	.1722	14	.1820	10	.1935
		32	.1777	13	.1850	9	.1960
1/4	.2500	20	.1887	7	.2010	7/32	.2188
		28	.2062	3	.2130	1	.2280
		32	.2117	7/32	.2188	1	.2280
5/16	.3125	18	.2443	F	.2570	J	.2770
		24	.2614	I	.2720	9/32	.2812
		32	.2742	9/32	.2812	L	.2900
3/8	.3750	16	.2983	5/16	.3125	Q	.3320
		24	.3239	Q	.3320	S	.3480
		32	.3367	11/32	.3438	T	.3580
7/16	.4375	14	.3499	U	.3680	25/64	.3906
		20	.3762	25/64	.3906	13/32	.4062
		28	.3937	Y	.4040	Z	.4130
		13	.4056	27/64	.4219	29/64	.4531

1/2	.5000	20	.4387	29/64	.4531	15/32	.4688
		28	.4562	15/32	.4688	15/32	.4688
9/16	.5625	12	.4603	31/64	.4844	33/64	.5156
		18	.4943	33/64	.5156	17/32	.5312
		24	.5114	33/64	.5156	17/32	.5312
5/8	.6250	11	.5135	17/32	.5312	9/16	.5625
		18	.5568	37/64	.5781	19/32	.5938
		24	.5739	37/64	.5781	19/32	.5938
11/16	.6875	24	.6364	41/64	.6406	21/32	.6562
3/4	.7500	10	.6273	21/32	.6562	11/16	.6875
		16	.6733	11/16	.6875	45/64	.7031
		20	.6887	45/64	.7031	23/32	.7188
13/16	.8125	20	.7512	49/64	.7656	25/32	.7812
7/8	.8750	9	.7387	49/64	.7656	51/64	.7969
		14	.7874	13/16	.8125	53/64	.8281
		20	.8137	53/64	.8281	27/32	.8438
15/16	.9375	20	.8762	57/64	.8906	29/32	.9062
1	1.000	8	.8466	7/8	.8750	59/64	.9219
		12	.8978	15/16	.9375	61/64	.9531
		20	.9387	61/64	.9531	31/32	.9688

Clearance Drill				Socket Head Cap Screw		
Close Fit		Free Fit		Hex	Counterbore	
Drill Size	Dec. Eq.	Drill Size	Dec. Eq.		Drill Size	Dec. Eq.
52	.0635	50	.0700	0.050	1/8	.125
48	.0760	46	.0810	1/16	5/32	.1562
43	.0890	41	.0960	5/64	3/16	.1875
37	.1040	35	.1100	5/64	7/32	.2188
32	.1160	30	.1285	3/32	7/32	.2188
30	.1285	29	.1360	3/32	1/4	.2500
27	.1440	25	.1495	7/64	9/32	.2812

18	.1695	16	.1770	9/64	5/16	.3125
9	.1960	7	.2010	5/32	3/8	.3750
2	.2210	1	.2280	5/32	3/8	.3750
F	.2570	H	.2660	3/16	7/16	.4375
P	.3230	Q	.3320	1/4	17/32	.5312
W	.3860	X	.3970	5/16	5/8	.6250
29/64	.4531	15/32	.4688	3/8	23/32	.7188

33/64	.5156	17/32	.5312	3/8	13/16	.8125
37/64	.5781	19/32	.5938	1/2	29/32	.9062
41/64	.6406	21/32	.6562	1/2	1	1.000
45/64	.7031	23/32	.7188			
49/64	.7656	25/32	.7812	5/8	1-3/16	1.1875
53/64	.8281	27/32	.8438			
57/64	.8906	29/32	.9062	3/4	1-3/8	1.3750
61/64	.9531	31/32	.9688			
1-1/64	1.0156	1-1/32	1.0313	3/4	1-5/8	1.6250

s	Flat Head Cap Screws	
e	Hex	Countersink Depth
Depth		
.0740	0.035	.0440
.0870	1/20	.0540
.1020	1/20	.0640
.1150	1/16	.0730
.1300	1/16	.0830
.1450	5/64	.0900
.1580	5/64	.0970

.1880	$3/32$	.1120
.2180	$1/8$	.1270
.2180	$1/8$	.1350
.2780	$5/32$	.1610
.3460	$3/16$	.1980
.4150	$7/32$	.2340
.4830	$1/4$	.2340



.5520	5/16	.2510
.5940		
.6890	3/8	.3240
.8280	1/2	.3960
.9630	9/16	.4680
1.1000	5/8	.5400