

US Tap and Drill Bit Size and Reference Chart

Machine Screw Size	Number of Threads Per Inch	Major Diameter	Minor Diameter	Tap drills				Clearance Drill			
				75% Thread for Aluminum, Brass, & Plastics		50% Thread for Steel, Stainless, & Iron		Close Fit		Free Fit	
				Drill Size	Decimal Equiv.	Drill Size	Decimal Equiv.	Drill Size	Decimal Equiv.	Drill Size	Decimal Equiv.
0	80	.0600	.0447	3/64	.0469	55	.0520	52	.0635	50	.0700
1	64	.0730	.0538	53	.0595	1/16	.0625	48	.0760	46	.0810
	72		.0560	53	.0595	52	.0635				
2	56	.0860	.0641	50	.0700	49	.0730	43	.0890	41	.0960
	64		.0668	50	.0700	48	.0760				
3	48	.0900	.0734	47	.0785	44	.0860	37	.1040	35	.1100
	56		.0771	45	.0820	43	.0890				
4	40	1120	.0813	43	.0890	41	.0960	32	.1160	30	.1285
	48		.0864	42	.0935	40	.0980				
5	40	1250	.0943	38	.1015	7/64	.1094	30	.1285	29	.1360
	44		.0971	37	.1040	35	.1100				
6	32	.1380	.0997	36	.1065	32	.1160	27	.1440	25	.1495
	40		.1073	33	.1130	31	.1200				
8	32	.1640	.1257	29	.1360	27	.1440	18	.1695	16	.1770
	36		.1299	29	.1360	26	.1470				
10	24	1900	.1389	25	.1495	20	.1610	9	.1960	7	.2010
	32		.1517	21	.1590	18	.1695				
12	24	0.216	.1649	16	.1770	12	.1890	2	.2210	1	.2280
	28		.1722	14	.1820	10	.1935				
	32		.1777	13	.1850	9	.1960				
1/4	20	0.2500	.1887	7	.2010	7/32	.2188	F	.2570	H	.2260
	28		.2062	3	.2130	1	.2280				
	32		.2117	7/32	.2188	1	.2280				
5/16	18	0.313	.2443	F	.2570	J	.2770	P	.3230	Q	.3320
	24		.2614	I	.2720	9/32	.2812				
	32		.2742	9/32	.2812	L	.2900				
3/8	16	.3750	.2983	5/16	.3125	Q	.3320	W	.3860	X	.3970
	24		.3239	Q	.3320	S	.3480				
	32		.3367	11/32	.3438	T	.3580				
7/16	14	0.438	.3499	U	.3680	25/64	.3906	29/64	.4531	15/32	.4687
	20		.3762	25/64	.3906	13/32	.4062				
	28		.3937	Y	.4040	Z	.4130				
1/2	13	0.500	.4056	27/64	.4219	29/64	.4531	33/64	.5156	17/32	.5312
	20		.4387	29/64	.4531	15/32	.4688				
	28		.4562	15/32	.4688	15/32	.4688				

9/16	12	.5625	.4603	31/64	.4844	33/64	.5156	37/64	.5781	19/32	.5938
	18		.4943	33/64	.5156	17/32	.5312				
	24		.5514	33/64	.5156	17/32	.5312				
5/8	11	0.625	.5135	17/32	.5312	9/16	.5625	41/64	.6406	21/32	.6562
	18		.5568	37/64	.5781	19/32	.5938				
	24		.5739	37/64	.5781	19/32	.5938				
11/16	24	.5875	.6364	41/64	.6406	21/32	.6562	45/64	.7031	23/32	.7188
3/4	10	0.75	.6273	21/32	.6562	11/16	.6875	49/64	.7656	25/32	.7812
	16		.6733	11/16	.6875	45/64	.7031				
	20		.6887	45/64	.7031	23/32	.7188				
13/16	20	.8125	.7512	49/64	.7656	25/32	.7812	53/64	.8281	27/32	.8438
7/8	9	0.875	.7387	49/64	.7656	51/64	.7969	57/64	.8906	29/32	.9062
	14		.7874	13/16	.8125	53/64	.8281				
	20		.8137	53/64	.8281	27/32	.8438				
15/16	20	.9375	.8762	57/64	.8906	29/32	.9062	61/64	.9531	31/32	.9688
1	8	1	.8466	7/8	.8750	59/64	.9219	1-1/64	1.0156	1-1/32	1.0313
	12		.8978	15/16	.9375	61/64	.9531				
	20		.9387	61/64	.9531	31/32	.9688				
1-1/16	18	1.0625	.9943	1.000	1.000	1-1/64	1.1056	1-5/64	1.0781	1-3/32	1.0938
1-1/8	7	1.125	.9497	63/64	.9844	1-1/32	1.0313	1-9/64	1.1406	1-5/32	1.1562
	12		1.0228	1-3/64	1.0469	1-5/64	1.0781				
	18		1.0568	1-1/16	1.0625	1-5/64	1.0781				
1-3/16	18	1.1875	1.1193	1-1/8	1.1250	1-9/64	1.1406	1-13/64	1.2031	1-7/32	1.2188



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