

Drills in the number (1–80) and letter (A–Z) series which are specified in decimal inches.

Standard metric drill sizes.

Standard metric drill sizes used for metric taps of the size indicated in the tap size column.

Drill bit diameter		Fractional size	Drill wire gauge ^{[2][3]}	Tap size ^{[4][5][6]}	Clearance		Thread depth† ^{[7][8]} (%)	Outer diameter
(mm, 4 d.p.)	(in, 5 d.p.)	(in)			Close fit ^[9]	Free fit ^[10]		
0.0483	0.00190		107					
0.0500	0.00197							
0.0584	0.00230		106					
0.0686	0.00270		105					
0.0787	0.00310		104					
0.0889	0.00350		103					
0.0991	0.00390		102					
0.1000	0.00394							
0.1092	0.00430		101					
0.1194	0.00470		100					
0.1295	0.00510		99					
0.1397	0.00550		98					
0.1499	0.00590		97					
0.1600	0.00630		96					
0.1702	0.00670		95					
0.1803	0.00710		94					
0.1905	0.00750		93					
0.2007	0.00790		92					
0.2000	0.00787							
0.2108	0.00830		91					
0.2210	0.00870		90					
0.2311	0.00910		89					
0.2413	0.00950		88					
0.2500	0.00984							
0.2540	0.01000		87					
0.2667	0.01050		86					
0.2794	0.01100		85					
0.2921	0.01150		84					
0.3000	0.01181							

0.3048	0.01200		83				
0.3175	0.01250		82				
0.3302	0.01300		81				
0.3429	0.01350		80				
0.3500	0.01378						
0.3680	0.01449		79				
0.3969	0.01563	$\frac{1}{64}$		#0000-160 [‡]	0.02400 in		0.021 in
0.4000	0.01575						
0.4064	0.01600		78				
0.4200	0.01654						
0.4400	0.01732						
0.4500	0.01772						
0.4572	0.01800		77				
0.4600	0.01811						
0.4800	0.01890						
0.5000	0.01969						
0.5080	0.02000		76				
0.5334	0.02100		75				
0.5500	0.02165						
0.5715	0.02250		74				
0.6000	0.02362						
0.6096	0.02400		73				
0.6350	0.02500		72				
0.6500	0.02559						
0.6604	0.02600		71	#000-120 [‡]	0.03700 in		
0.7000	0.02756						
0.7112	0.02800		70				
0.7417	0.02920		69				
0.7500	0.02953						
0.7874	0.03100		68				
0.7938	0.03125	$\frac{1}{32}$					
0.8000	0.03150						
0.8128	0.03200		67				
0.8382	0.03300		66				

0.8500	0.03346						
0.8890	0.03500		65	#00-90 [‡]	0.05200 in		
0.9000	0.03543						
0.9144	0.03600		64				
0.9398	0.03700		63				
0.9500	0.03740						
0.9652	0.03800		62				
0.9906	0.03900		61				
1.0000	0.03937						
1.0160	0.04000		60				
1.0414	0.04100		59				
1.0500	0.04134						
1.0668	0.04200		58				
1.0922	0.04300		57				
1.1000	0.04331						
1.1500	0.04528						
1.1811	0.04650		56				
1.1906	0.04688	³ / ₆₄		#0-80	0.06350 in	0.07000 in	
1.2000	0.04724						
1.2500	0.04921						
1.3000	0.05118						
1.3208	0.05200		55				
1.3500	0.05315						
1.3970	0.05500		54				
1.4000	0.05512						
1.4500	0.05709						
1.5000	0.05906						
1.5113	0.05950		53	#1-64, #1-72	0.07600 in	0.08100 in	
1.5500	0.06102						
1.5875	0.06250	¹ / ₁₆					
1.6000	0.06299			M2×0.4	2.2 mm		
1.6129	0.06350		52				
1.6500	0.06496						
1.7000	0.06693						

1.7018	0.06700		51	#2-56	0.08900 in	0.09600 in		
1.7500	0.06890			M2.2×0.45	2.25 mm			
1.7780	0.07000		50	#2-56, #2-64	0.08900 in	0.09600 in		
1.8000	0.07087							
1.8500	0.07283							
1.8542	0.07300		49					
1.9000	0.07480							
1.9304	0.07600		48					
1.9500	0.07677							
1.9600	0.07717			#3-48	0.10400 in	0.11000 in	81	
1.9700	0.07756			#3-48	0.10400 in	0.11000 in	79	
1.9844	0.07813	5/64		#3-48	0.10400 in	0.11000 in	78	
1.9939	0.07850		47	#3-48	0.10400 in	0.11000 in	76	
2.0000	0.07874			#3-48	0.10400 in	0.11000 in	75	
2.0100	0.07913			#3-48	0.10400 in	0.11000 in	74	
2.0200	0.07953			#3-48	0.10400 in	0.11000 in	72	
2.0300	0.07992			#3-48	0.10400 in	0.11000 in	71	
2.0400	0.08031			#3-48 #3-56	0.10400 in	0.11000 in	69 81	
2.0500	0.08071			#3-48 #3-56 M2.5×0.45	0.10400 in	0.11000 in	68 79	
2.0574	0.08100		46	#3-48 #3-56	0.10400 in	0.11000 in	66 77	
2.0700	0.08150			#3-48 #3-56	0.10400 in	0.11000 in	65 75	
2.0828	0.08200		45	#3-48 #3-56	0.10400 in	0.11000 in	66 74	
2.0900	0.08228			#3-48 #3-56	0.10400 in	0.11000 in	62 72	
2.1000	0.08268			#3-48 #3-56	0.10400 in	0.11000 in	60 70	
2.1100	0.08307			#3-48 #3-56	0.10400 in	0.11000 in	59 69	
2.1200	0.08346			#3-56	0.10400 in	0.11000 in	67	
2.1300	0.08386			#3-56	0.10400 in	0.11000 in	65	
2.1400	0.08425			#3-56	0.10400 in	0.11000 in	63	
2.1500	0.08465			#3-56 M2.5×0.35	0.10400 in	0.11000 in	62	

2.1600	0.08504			#3-56	0.10400 in	0.11000 in	60	
2.1700	0.08543			#3-56	0.10400 in	0.11000 in	59	
2.1844	0.08600		44	#4-36	0.11600 in	0.12850 in	81	
2.1900	0.08622			#4-40	0.11600 in	0.12850 in	81	
2.2000	0.08661			#4-40	0.11600 in	0.12850 in	78	
2.2100	0.08701			#4-40	0.11600 in	0.12850 in	77	
2.2200	0.08740			#4-40	0.11600 in	0.12850 in	76	
2.2300	0.08780			#4-40	0.11600 in	0.12850 in	75	
2.2400	0.08819			#4-40	0.11600 in	0.12850 in	73	
2.2500	0.08858			#4-40	0.11600 in	0.12850 in	72	
2.2600	0.08898			#4-40	0.11600 in	0.12850 in	71	
2.2606	0.08900		43	#4-40	0.11600 in	0.12850 in	71	
2.2700	0.08937			#4-40	0.11600 in	0.12850 in	70	
2.2800	0.08976			#4-40	0.11600 in	0.12850 in	68	
2.2900	0.09016			#4-40 #4-48	0.11600 in	0.12850 in	67 81	
2.3000	0.09055			#4-40 #4-48	0.11600 in	0.12850 in	66 79	
2.3100	0.09094			#4-40 #4-48	0.11600 in	0.12850 in	65 78	
2.3200	0.09134			#4-40 #4-48	0.11600 in	0.12850 in	64 76	
2.3300	0.09173			#4-40 #4-48	0.11600 in	0.12850 in	63 75	
2.3400	0.09213			#4-40 #4-48	0.11600 in	0.12850 in	61 74	
2.3500	0.09252			#4-40 #4-48	0.11600 in	0.12850 in	60 72	
2.3749	0.09350		42	#4-48	0.11600 in	0.12850 in	69	
2.3813	0.09375	$\frac{3}{32}$						
2.4000	0.09449							
2.4384	0.09600		41					
2.4500	0.09646							
2.4892	0.09800		40					
2.5000	0.09843			M3×0.5	3.2 mm		75	
2.5273	0.09950		39	#5-40	0.12850 in	0.13600 in	78	
2.5781	0.10150		38	#5-40	0.12850 in	0.13600 in	72	
2.6000	0.10236							

2.6416	0.10400		37	#5-44	0.12850 in	0.13600 in	71	
2.7000	0.10630							
2.7051	0.10650		36	#6-32	0.14400 in	0.14950 in	77	0.14 in
2.7500	0.10827							
2.7781	0.10938	$\frac{7}{64}$						
2.7940	0.11000		35					
2.8000	0.11024							
2.8194	0.11100		34					
2.8702	0.11300		33	#6-40		0.1563 in		0.14 in
2.9000	0.11417			M3.5×0.6				
2.9464	0.11600		32					
3.0000	0.11811							
3.0480	0.12000		31					
3.1000	0.12205							
3.1750	0.12500	$\frac{1}{8}$						
3.2000	0.12598							
3.2500	0.12795							
3.2639	0.12850		30					
3.3000	0.12992			M4×0.7	4.10 mm		75	
3.4000	0.13386							
3.4544	0.13600		29	#8-32	0.16950 in	0.17700 in	69	
3.5000	0.13780			M4×0.5	4.10 mm		60	
3.5687	0.14050		28					
3.5719	0.14063	$\frac{9}{64}$						
3.6000	0.14173							
3.6576	0.14400		27					
3.7000	0.14567							
3.7338	0.14700		26					
3.7500	0.14764							
3.7973	0.14950		25	#10-24	0.19600 in	0.20100 in	75	
3.8000	0.14961							
3.8608	0.15200		24					
3.9000	0.15354							
3.9116	0.15400		23					

3.9688	0.15625	$\frac{5}{32}$						
3.9878	0.15700		22					
4.0000	0.15748							
4.0386	0.15900		21	#10-32	0.1960 in	0.2010 in		
4.0894	0.16100		20					
4.1000	0.16142							
4.2000	0.16535			M5×0.8	5.10 mm		75	
4.2164	0.16600		19					
4.2500	0.16732							
4.3053	0.16950		18					
4.3656	0.17188	$\frac{11}{64}$						
4.3942	0.17300		17					
4.4000	0.17323							
4.4958	0.17700		16	#12-24	0.22100 in	0.22800 in	72	
4.5000	0.17717							
4.5720	0.18000		15					
4.6000	0.18110							
4.6228	0.18200		14					
4.6990	0.18500		13					
4.7000	0.18504							
4.7500	0.18701							
4.7625	0.18750	$\frac{3}{16}$						
4.8000	0.18898							
4.8006	0.18900		12					
4.8514	0.19100		11					
4.9000	0.19291							
4.9149	0.19350		10					
4.9784	0.19600		9					
5.0000	0.19685			M6×1.0	6.10 mm		75	
5.0546	0.19900		8					
5.1000	0.20079							
5.1054	0.20100		7	$\frac{1}{4}$ -20	0.25700 in	0.26600 in	72	
5.1594	0.20313	$\frac{13}{64}$						

5.1816	0.20400		6					
5.2000	0.20472			M6×0.75 [11]	6.10 mm		60	
5.2197	0.20550		5					
5.2500	0.20669							
5.3000	0.20866							
5.3086	0.20900		4					
5.4000	0.21260							
5.4102	0.21300		3	1/4-28	0.25700 in	0.26600 in	80	
5.5000	0.21654			1/4-28	0.25700 in	0.26600 in	70	
5.5563	0.21875	7/32		1/4-28 1/4-32 (1/4-32 UNEF for glow plugs)	0.25700 in	0.26600 in	68	
5.6000	0.22047			1/4-28	0.25700 in	0.26600 in	63	
5.6134	0.22100		2	1/4-28	0.25700 in	0.26600 in	60	
5.7000	0.22441							
5.7500	0.22638							
5.7912	0.22800		1					
5.8000	0.22835							
5.9000	0.23228							
5.9436	0.23400		A					
5.9531	0.23438	15/64						
6.0000	0.23622							
6.0452	0.23800		B					
6.1000	0.24016			M7×1.0			75	
6.1468	0.24200		C					
6.2000	0.24409							
6.2484	0.24600		D					
6.2500	0.24606							
6.3000	0.24803							
6.3500	0.25000	1/4	E					
6.4000	0.25197							
6.5000	0.25591			M7×0.5				

6.5278	0.25700		F	$\frac{5}{16}$ -18	0.32300 in	0.33200 in	77	
6.6000	0.25984							
6.6294	0.26100		G					
6.7000	0.26378							
6.7469	0.26563	$\frac{17}{64}$		$\frac{5}{16}$ -18			74	
6.7500	0.26575							
6.7564	0.26600		H					
6.8000	0.26772							
6.9000	0.27165			M8×1.25			75	
6.9088	0.27200		I	$\frac{5}{16}$ -24	0.32300 in	0.33200 in	75	
7.0000	0.27559							
7.0358	0.27700		J	$\frac{5}{16}$ -18			50	
7.1000	0.27953			M8×1.0			75	
7.1374	0.28100		K					
7.1438	0.28125	$\frac{9}{32}$		$\frac{5}{16}$ -32				
7.2000	0.28346							
7.2500	0.28543							
7.3000	0.28740							
7.3660	0.29000		L					
7.4000	0.29134							
7.4930	0.29500		M					
7.5000	0.29528							
7.5406	0.29688	$\frac{19}{64}$						
7.6000	0.29921							
7.6708	0.30200		N					
7.7000	0.30315							
7.7500	0.30512							
7.8000	0.30709							
7.9000	0.31102							
7.9375	0.31250	$\frac{5}{16}$		$\frac{3}{8}$ -16	0.38600 in	0.39700 in	77	
8.0000	0.31496							
8.0264	0.31600		O					
8.1000	0.31890							

8.2000	0.32283							
8.2042	0.32300		P					
8.2500	0.32480							
8.3000	0.32677							
8.3344	0.32813	$\frac{21}{64}$						
8.4000	0.33071							
8.4328	0.33200		Q	$\frac{3}{8}$ -24	0.38600 in	0.39700 in	79	
8.5000	0.33465			M10×1.5				
8.6000	0.33858							
8.6106	0.33900		R					
8.7000	0.34252							
8.7313	0.34375	$\frac{11}{32}$						
8.7500	0.34449			M10×1.25				
8.8000	0.34646							
8.8392	0.34800		S					
8.9000	0.35039							
9.0000	0.35433			M10×1.0 (spark plug)				
9.0932	0.35800		T					
9.1000	0.35827							
9.1281	0.35938	$\frac{23}{64}$						
9.2000	0.36220							
9.2500	0.36417							
9.3000	0.36614							
9.3472	0.36800		U	$\frac{7}{16}$ -14	0.45310 in	0.46870 in	75	
9.4000	0.37008							
9.5000	0.37402							
9.5250	0.37500	$\frac{3}{8}$						
9.5758	0.37700		V					
9.6000	0.37795							
9.7000	0.38189							
9.7500	0.38386							
9.8000	0.38583							
9.8044	0.38600		W					

9.9000	0.38976							
9.9219	0.39063	$\frac{25}{64}$		$\frac{7}{16}$ -20	0.45313 in	0.46785 in	72	
10.0000	0.39370							
10.0838	0.39700		X					
10.2616	0.40400		Y					
10.3188	0.40625	$\frac{13}{32}$		$\frac{7}{16}$ -40				
10.4902	0.41300		Z					
10.5000	0.41339			M12×1.75			75	
10.7000	0.42126			M12×1.5			75	
10.7156	0.42188	$\frac{27}{64}$		$\frac{1}{2}$ -13	0.51563 in	0.53125 in	78	
10.900	0.42913			M12×1.25 (spark plug)				
11.0000	0.43307							
11.1125	0.43750	$\frac{7}{16}$						
11.5000	0.45276							
11.5094	0.45313	$\frac{29}{64}$		$\frac{1}{2}$ -20	0.51563 in	0.53125 in	72	
11.9063	0.46875	$\frac{15}{32}$		$\frac{9}{16}$ -12	0.56250 in		87	
12.0000	0.47244							
12.2000	0.48031			M14×2			75	
12.3031	0.48438	$\frac{31}{64}$		$\frac{9}{16}$ -12	0.56250 in		68	
12.5000	0.49213							
12.7000	0.50000	$\frac{1}{2}$		$\frac{9}{16}$ -18 M14×1.5	0.56250 in		87 75	
12.8000	0.50393			M14×1.25 (spark plug)				
13.0000	0.51181							
13.0969	0.51563	$\frac{33}{64}$		$\frac{9}{16}$ -18	0.56250 in		65	
13.4938	0.53125	$\frac{17}{32}$		$\frac{5}{8}$ -11	0.62500 in		79	
13.5000	0.53150							
13.8906	0.54688	$\frac{35}{64}$		$\frac{5}{8}$ -11	0.62500 in		66	
14.0000	0.55118							
14.2000	0.55906			M16×2			75	
14.2875	0.56250	$\frac{9}{16}$		$\frac{5}{8}$ -18	0.62500 in		87	

14.5000	0.57087						
14.6844	0.57813	$\frac{37}{64}$		$\frac{5}{8}$ -18	0.62500 in		65
14.7000	0.57874			M16×1.5			75
15.0000	0.59055						
15.0813	0.59375	$\frac{19}{32}$					
15.4781	0.60938	$\frac{39}{64}$					
15.5000	0.61024						
15.8750	0.62500	$\frac{5}{8}$					
16.0000	0.62992						
16.2719	0.64063	$\frac{41}{64}$		$\frac{3}{4}$ -10			84
16.5000	0.64961						
16.6688	0.65625	$\frac{21}{32}$		$\frac{3}{4}$ -10			72
16.8000	0.66141			M18×1.5 (spark plug)			
17.0000	0.66929						
17.0656	0.67188	$\frac{43}{64}$					
17.4625	0.68750	$\frac{11}{16}$		$\frac{3}{4}$ -16			77
17.5000	0.68898						
17.8594	0.70313	$\frac{45}{64}$					
18.0000	0.70866						
18.2563	0.71875	$\frac{23}{32}$					
18.5000	0.72835						
18.6531	0.73438	$\frac{47}{64}$					
19.0000	0.74803						
19.0500	0.75000	$\frac{3}{4}$					
19.4469	0.76563	$\frac{49}{64}$		$\frac{7}{8}$ -9			76
19.5000	0.76772						
19.8438	0.78125	$\frac{25}{32}$		$\frac{7}{8}$ -9			65
20.0000	0.78740						
20.2406	0.79688	$\frac{51}{64}$		$\frac{7}{8}$ -14			84
20.5000	0.80709						

20.6375	0.81250	$13/16$		$7/8-14$			67	
21.0000	0.82677							
21.0344	0.82813	$53/64$		$7/8-18$ NS (spark plug)				
21.4313	0.84375	$27/32$						
21.5000	0.84646							
21.8281	0.85938	$55/64$		1-8			87	
22.0000	0.86614							
22.2250	0.87500	$7/8$		1-8			77	
22.5000	0.88583							
22.6219	0.89063	$57/64$		1-8			67	
23.0000	0.90551							
23.0188	0.90625	$29/32$		1-12			87	
23.4156	0.92188	$59/64$		1-12 1-14			72 84	
23.5000	0.92520							
23.8125	0.93750	$15/16$		1-14			67	
24.0000	0.94488							
24.2094	0.95313	$61/64$						
24.5000	0.96457							
24.6063	0.96875	$31/32$		$1\frac{1}{8}-7$			84	
25.0000	0.98425							
25.0031	0.98438	$63/64$		$1\frac{1}{8}-7$			76	
25.4000	1.00000	1		$1\frac{1}{8}-7$			67	
25.5000	1.00394							
25.7969	1.01563	$1\frac{1}{64}$						
26.0000	1.02362							
26.1938	1.03125	$1\frac{1}{32}$		$1\frac{1}{8}-12$			87	
26.5000	1.04331							
26.5906	1.04688	$1\frac{3}{64}$		$1\frac{1}{8}-12$			72	
26.9875	1.06250	$1\frac{1}{16}$						
27.0000	1.06299							

27.5000	1.08268						
28.0000	1.10236						
28.1781	1.10938	$1\frac{7}{64}$		$1\frac{1}{4}$ -7		76	
28.5000	1.12205						
28.5750	1.12500	$1\frac{1}{8}$		$1\frac{1}{4}$ -7		67	
29.0000	1.14173						
29.3688	1.15625	$1\frac{5}{32}$		$1\frac{1}{4}$ -12		87	
29.5000	1.16142						
29.7656	1.17188	$1\frac{11}{64}$		$1\frac{1}{4}$ -12		72	
30.0000	1.18110						
30.1625	1.18750	$1\frac{3}{16}$		$1\frac{3}{8}$ -6		87	
30.5000	1.20079						
30.5594	1.20313	$1\frac{13}{64}$		$1\frac{3}{8}$ -6		79	
30.9563	1.21875	$1\frac{7}{32}$		$1\frac{3}{8}$ -6		72	
31.0000	1.22047						
31.3531	1.23438	$1\frac{15}{64}$		$1\frac{3}{8}$ -6		65	
31.5000	1.24016						
32.0000	1.25984						
32.5000	1.27953						
32.5438	1.28125	$1\frac{9}{32}$		$1\frac{3}{8}$ -12		87	
32.9406	1.29688	$1\frac{19}{64}$		$1\frac{3}{8}$ -12		72	
33.0000	1.29921						
33.3375	1.31250	$1\frac{5}{16}$		$1\frac{1}{2}$ -6		87	
33.5000	1.31890						
33.7344	1.32813	$1\frac{21}{64}$		$1\frac{1}{2}$ -6		79	
34.0000	1.33858						
34.1313	1.34375	$1\frac{11}{32}$		$1\frac{1}{2}$ -6		72	
34.5000	1.35827						
34.5281	1.35938	$1\frac{23}{64}$		$1\frac{1}{2}$ -6		65	
35.0000	1.37795						
35.5000	1.39764						

35.7188	1.40625	$1^{13/32}$		$1^{1/2-12}$			87	
36.0000	1.41732							
36.1156	1.42188	$1^{27/64}$		$1^{1/2-12}$			72	
36.5000	1.43701							

[†]If theoretical thread percentage not given, assume 75% ± 10%

Theoretical percentage of thread should not be relied upon for threads of included angles other than 60 degrees.

[‡]See <http://www.newmantools.com/taps/micro.htm> for more information.

See also

- [AN thread](#)
- [British standard pipe thread](#)
- [British Association screw threads](#)
- [British Standard Whitworth](#)
- [Drill bit sizes](#), a similar page including center drill sizes
- [ISO metric screw thread](#)
- [National pipe thread](#)
- [Taps and dies](#)
- [United States Standard thread](#)
- [Unified Thread Standard](#)

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- <http://www.littlemachineshop.com/reference/tapdrillsizes.pdf>

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External links

- [Tap Drill Sizes \(http://www.amesweb.info/Screws/TapDrillSizesForUnifiedScrewThread.aspx\)](http://www.amesweb.info/Screws/TapDrillSizesForUnifiedScrewThread.aspx)
 - [Metric Tap Drill Sizes \(http://www.amesweb.info/Screws/Tap-Drill-Size-Chart-Metric.aspx\)](http://www.amesweb.info/Screws/Tap-Drill-Size-Chart-Metric.aspx)
 - [Tap and drill chart \(http://www.lincolnmachine.com/tap_drill_chart.html\)](http://www.lincolnmachine.com/tap_drill_chart.html)
 - [BTA Drill Tube Reference Chart \(https://web.archive.org/web/20120320164025/http://www.unisig.com/gundrilling-education/bta-drill-tube-reference.pdf\)](https://web.archive.org/web/20120320164025/http://www.unisig.com/gundrilling-education/bta-drill-tube-reference.pdf)
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