

Drill Size Conversion Chart

Fractional drill bits 1/64 to 1 inch in decimal inches and millimetres, with the nearest metric bit.

Fraction	Decimal (in)	Exact (mm)	Nearest 0.1 mm	Nearest 0.5 mm	0.5 mm minus exact
1/64 in	0.0156	0.397	0.4 mm	0.5 mm	+0.103
1/32 in	0.0312	0.794	0.8 mm	1.0 mm	+0.206
3/64 in	0.0469	1.191	1.2 mm	1.0 mm	-0.191
1/16 in	0.0625	1.587	1.6 mm	1.5 mm	-0.087
5/64 in	0.0781	1.984	2.0 mm	2.0 mm	+0.016
3/32 in	0.0938	2.381	2.4 mm	2.5 mm	+0.119
7/64 in	0.1094	2.778	2.8 mm	3.0 mm	+0.222
1/8 in	0.1250	3.175	3.2 mm	3.0 mm	-0.175
9/64 in	0.1406	3.572	3.6 mm	3.5 mm	-0.072
5/32 in	0.1562	3.969	4.0 mm	4.0 mm	+0.031
11/64 in	0.1719	4.366	4.4 mm	4.5 mm	+0.134
3/16 in	0.1875	4.762	4.8 mm	5.0 mm	+0.238
13/64 in	0.2031	5.159	5.2 mm	5.0 mm	-0.159
7/32 in	0.2188	5.556	5.6 mm	5.5 mm	-0.056
15/64 in	0.2344	5.953	6.0 mm	6.0 mm	+0.047
1/4 in	0.2500	6.350	6.4 mm	6.5 mm	+0.150
17/64 in	0.2656	6.747	6.7 mm	6.5 mm	-0.247
9/32 in	0.2812	7.144	7.1 mm	7.0 mm	-0.144
19/64 in	0.2969	7.541	7.5 mm	7.5 mm	-0.041
5/16 in	0.3125	7.938	7.9 mm	8.0 mm	+0.062
21/64 in	0.3281	8.334	8.3 mm	8.5 mm	+0.166
11/32 in	0.3438	8.731	8.7 mm	8.5 mm	-0.231
23/64 in	0.3594	9.128	9.1 mm	9.0 mm	-0.128
3/8 in	0.3750	9.525	9.5 mm	9.5 mm	-0.025
25/64 in	0.3906	9.922	9.9 mm	10.0 mm	+0.078
13/32 in	0.4062	10.319	10.3 mm	10.5 mm	+0.181
27/64 in	0.4219	10.716	10.7 mm	10.5 mm	-0.216
7/16 in	0.4375	11.112	11.1 mm	11.0 mm	-0.112
29/64 in	0.4531	11.509	11.5 mm	11.5 mm	-0.009
15/32 in	0.4688	11.906	11.9 mm	12.0 mm	+0.094
31/64 in	0.4844	12.303	12.3 mm	12.5 mm	+0.197
1/2 in	0.5000	12.700	12.7 mm	12.5 mm	-0.200
33/64 in	0.5156	13.097	13.1 mm	13.0 mm	-0.097
17/32 in	0.5312	13.494	13.5 mm	13.5 mm	+0.006
35/64 in	0.5469	13.891	13.9 mm	14.0 mm	+0.109
9/16 in	0.5625	14.287	14.3 mm	14.5 mm	+0.213
37/64 in	0.5781	14.684	14.7 mm	14.5 mm	-0.184
19/32 in	0.5938	15.081	15.1 mm	15.0 mm	-0.081
39/64 in	0.6094	15.478	15.5 mm	15.5 mm	+0.022
5/8 in	0.6250	15.875	15.9 mm	16.0 mm	+0.125

Exact conversions: 1 in = 25.4 mm. Metric drills come in 0.1 mm steps (small sizes) and 0.5 mm steps (common sets).

Example: 1/8 in = 3.175 mm (use 3.2 mm); 12.5 mm = 0.492 in (between 31/64 and 1/2 in).

For tapping or clearance holes, use a tap drill chart; for wood a slightly larger or smaller metric bit is usually fine.

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41/64 in	0.6406	16.272	16.3 mm	16.5 mm	+0.228
21/32 in	0.6562	16.669	16.7 mm	16.5 mm	-0.169
43/64 in	0.6719	17.066	17.1 mm	17.0 mm	-0.066
11/16 in	0.6875	17.462	17.5 mm	17.5 mm	+0.038
45/64 in	0.7031	17.859	17.9 mm	18.0 mm	+0.141
23/32 in	0.7188	18.256	18.3 mm	18.5 mm	+0.244
47/64 in	0.7344	18.653	18.7 mm	18.5 mm	-0.153
3/4 in	0.7500	19.050	19.0 mm	19.0 mm	-0.050
49/64 in	0.7656	19.447	19.4 mm	19.5 mm	+0.053
25/32 in	0.7812	19.844	19.8 mm	20.0 mm	+0.156
51/64 in	0.7969	20.241	20.2 mm	20.0 mm	-0.241
13/16 in	0.8125	20.637	20.6 mm	20.5 mm	-0.137
53/64 in	0.8281	21.034	21.0 mm	21.0 mm	-0.034
27/32 in	0.8438	21.431	21.4 mm	21.5 mm	+0.069
55/64 in	0.8594	21.828	21.8 mm	22.0 mm	+0.172
7/8 in	0.8750	22.225	22.2 mm	22.0 mm	-0.225
57/64 in	0.8906	22.622	22.6 mm	22.5 mm	-0.122
29/32 in	0.9062	23.019	23.0 mm	23.0 mm	-0.019
59/64 in	0.9219	23.416	23.4 mm	23.5 mm	+0.084
15/16 in	0.9375	23.812	23.8 mm	24.0 mm	+0.188
61/64 in	0.9531	24.209	24.2 mm	24.0 mm	-0.209
31/32 in	0.9688	24.606	24.6 mm	24.5 mm	-0.106
63/64 in	0.9844	25.003	25.0 mm	25.0 mm	-0.003
1 in	1.0000	25.400	25.4 mm	25.5 mm	+0.100

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