WORKSHOP REFERENCE · 02

Drill Sizes & Decimal Equivalents

Fractional, number and letter drills in size order with inch and millimetre equivalents, plus everyday workshop conversions.

Under 1/8 inch

0.343 – 3.048 mm

Size	Type	Inch	mm
#80	Number	0.0135	0.343
#79	Number	0.0145	0.368
1/64	Fraction	0.0156	0.397
#78	Number	0.0160	0.406
#77	Number	0.0180	0.457
#76	Number	0.0200	0.508
#75	Number	0.0210	0.533
#74	Number	0.0225	0.571
#73	Number	0.0240	0.610
#72	Number	0.0250	0.635
#71	Number	0.0260	0.660
#70	Number	0.0280	0.711
#69	Number	0.0292	0.742
#68	Number	0.0310	0.787
1/32	Fraction	0.0312	0.794
#67	Number	0.0320	0.813
#66	Number	0.0330	0.838
#65	Number	0.0350	0.889
#64	Number	0.0360	0.914
#63	Number	0.0370	0.940
#62	Number	0.0380	0.965
#61	Number	0.0390	0.991
#60	Number	0.0400	1.016
#59	Number	0.0410	1.041
#58	Number	0.0420	1.067
#57	Number	0.0430	1.092
#56	Number	0.0465	1.181
3/64	Fraction	0.0469	1.191
#55	Number	0.0520	1.321
#54	Number	0.0550	1.397
#53	Number	0.0595	1.511
1/16	Fraction	0.0625	1.587
#52	Number	0.0635	1.613
#51	Number	0.0670	1.702
#50	Number	0.0700	1.778
#49	Number	0.0730	1.854
#48	Number	0.0760	1.930
5/64	Fraction	0.0781	1.984
#47	Number	0.0785	1.994
#46	Number	0.0810	2.057
#45	Number	0.0820	2.083
#44	Number	0.0860	2.184
#43	Number	0.0890	2.261
#42	Number	0.0935	2.375
3/32	Fraction	0.0938	2.381
#41	Number	0.0960	2.438
#40	Number	0.0980	2.489
#39	Number	0.0995	2.527
#38	Number	0.1015	2.578
#37	Number	0.1040	2.642
#36	Number	0.1065	2.705
7/64	Fraction	0.1094	2.778
#35	Number	0.1100	2.794
#34	Number	0.1110	2.819
#33	Number	0.1130	2.870
#32	Number	0.1160	2.946
#31	Number	0.1200	3.048

1/8 to 5/16 inch

3.175 – 7.938 mm

Size	Type	Inch	mm
1/8	Fraction	0.1250	3.175
#30	Number	0.1285	3.264
#29	Number	0.1360	3.454
#28	Number	0.1405	3.569
9/64	Fraction	0.1406	3.572
#27	Number	0.1440	3.658
#26	Number	0.1470	3.734
#25	Number	0.1495	3.797
#24	Number	0.1520	3.861
#23	Number	0.1540	3.912
5/32	Fraction	0.1562	3.969
#22	Number	0.1570	3.988
#21	Number	0.1590	4.039
#20	Number	0.1610	4.089
#19	Number	0.1660	4.216
#18	Number	0.1695	4.305
11/64	Fraction	0.1719	4.366
#17	Number	0.1730	4.394
#16	Number	0.1770	4.496
#15	Number	0.1800	4.572
#14	Number	0.1820	4.623
#13	Number	0.1850	4.699
3/16	Fraction	0.1875	4.762
#12	Number	0.1890	4.801
#11	Number	0.1910	4.851
#10	Number	0.1935	4.915
#9	Number	0.1960	4.978
#8	Number	0.1990	5.055
#7	Number	0.2010	5.105
13/64	Fraction	0.2031	5.159
#6	Number	0.2040	5.182
#5	Number	0.2055	5.220
#4	Number	0.2090	5.309
#3	Number	0.2130	5.410
7/32	Fraction	0.2188	5.556
#2	Number	0.2210	5.613
#1	Number	0.2280	5.791
A	Letter	0.2340	5.944
15/64	Fraction	0.2344	5.953
B	Letter	0.2380	6.045
C	Letter	0.2420	6.147
D	Letter	0.2460	6.248
1/4	Fraction	0.2500	6.350
E	Letter	0.2500	6.350
F	Letter	0.2570	6.528
G	Letter	0.2610	6.629
17/64	Fraction	0.2656	6.747
H	Letter	0.2660	6.756
I	Letter	0.2720	6.909
J	Letter	0.2770	7.036
K	Letter	0.2810	7.137
9/32	Fraction	0.2812	7.144
L	Letter	0.2900	7.366
M	Letter	0.2950	7.493
19/64	Fraction	0.2969	7.541
N	Letter	0.3020	7.671
5/16	Fraction	0.3125	7.938

Over 5/16 to 1 inch

8.026 – 25.400 mm

Size	Type	Inch	mm
O	Letter	0.3160	8.026
P	Letter	0.3230	8.204
21/64	Fraction	0.3281	8.334
Q	Letter	0.3320	8.433
R	Letter	0.3390	8.611
11/32	Fraction	0.3438	8.731
S	Letter	0.3480	8.839
T	Letter	0.3580	9.093
23/64	Fraction	0.3594	9.128
U	Letter	0.3680	9.347
3/8	Fraction	0.3750	9.525
V	Letter	0.3770	9.576
W	Letter	0.3860	9.804
25/64	Fraction	0.3906	9.922
X	Letter	0.3970	10.084
Y	Letter	0.4040	10.262
13/32	Fraction	0.4062	10.319
Z	Letter	0.4130	10.490
27/64	Fraction	0.4219	10.716
7/16	Fraction	0.4375	11.112
29/64	Fraction	0.4531	11.509
15/32	Fraction	0.4688	11.906
31/64	Fraction	0.4844	12.303
1/2	Fraction	0.5000	12.700
33/64	Fraction	0.5156	13.097
17/32	Fraction	0.5312	13.494
35/64	Fraction	0.5469	13.891
9/16	Fraction	0.5625	14.287
37/64	Fraction	0.5781	14.684
19/32	Fraction	0.5938	15.081
39/64	Fraction	0.6094	15.478
5/8	Fraction	0.6250	15.875
41/64	Fraction	0.6406	16.272
21/32	Fraction	0.6562	16.669
43/64	Fraction	0.6719	17.066
11/16	Fraction	0.6875	17.462
45/64	Fraction	0.7031	17.859
23/32	Fraction	0.7188	18.256
47/64	Fraction	0.7344	18.653
3/4	Fraction	0.7500	19.050
49/64	Fraction	0.7656	19.447
25/32	Fraction	0.7812	19.844
51/64	Fraction	0.7969	20.241
13/16	Fraction	0.8125	20.637
53/64	Fraction	0.8281	21.034
27/32	Fraction	0.8438	21.431
55/64	Fraction	0.8594	21.828
7/8	Fraction	0.8750	22.225
57/64	Fraction	0.8906	22.622
29/32	Fraction	0.9062	23.019
59/64	Fraction	0.9219	23.416
15/16	Fraction	0.9375	23.812
61/64	Fraction	0.9531	24.209
31/32	Fraction	0.9688	24.606
63/64	Fraction	0.9844	25.003
1	Fraction	1.0000	25.400

Metric drills in inches

1 in = 25.4 mm

mm	Inch	mm	Inch
0.5	0.0197	11	0.4331
1	0.0394	11.5	0.4528
1.5	0.0591	12	0.4724
2	0.0787	12.5	0.4921
2.5	0.0984	13	0.5118
3	0.1181	14	0.5512
3.5	0.1378	15	0.5906
4	0.1575	16	0.6299
4.5	0.1772	17	0.6693
5	0.1969	18	0.7087
5.5	0.2165	19	0.7480
6	0.2362	20	0.7874
6.5	0.2559	21	0.8268
7	0.2756	22	0.8661
7.5	0.2953	23	0.9055
8	0.3150	24	0.9449
8.5	0.3346	25	0.9843
9	0.3543	26	1.0236
9.5	0.3740	28	1.1024
10	0.3937	30	1.1811
10.5	0.4134	32	1.2598

Workshop conversions

exact or to 4 significant figures

From	Equals
1 inch	25.4 mm
1 mm	0.03937 in
1 thou (0.001 in)	0.0254 mm
1 ft	304.8 mm
1 ft·lbf	1.3558 N·m
1 N·m	0.7376 ft·lbf
1 in·lbf	0.1130 N·m
1 SFM (ft/min)	0.3048 m/min
1 m/min	3.281 SFM
1 in/rev (IPR)	25.4 mm/rev
1 psi	0.06895 bar
1 bar	14.504 psi
1 MPa	145.04 psi
1 lb	0.4536 kg
1 kgf	9.807 N
1 hp	0.7457 kW
°C	(°F − 32) × 5 ÷ 9
°F	°C × 9 ÷ 5 + 32

Number and letter drill sizes per ASME B94.11M. Millimetre values are exact conversions (1 in = 25.4 mm), rounded to 0.001 mm.

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