

Drill Size Chart for Number and Letter Gauges

Gauge	inch	mm		Gauge	inch	mm		Gauge	inch	mm
104	0.0031	0.079		52	0.0635	1.613		A	0.234	5.944
103	0.0035	0.089		51	0.067	1.702		B	0.238	6.045
102	0.0039	0.099		50	0.07	1.778		C	0.242	6.147
101	0.0043	0.109		49	0.073	1.854		D	0.246	6.248
100	0.0047	0.119		48	0.076	1.93		E	0.25	6.35
99	0.0051	0.13		47	0.0785	1.994		F	0.257	6.528
98	0.0055	0.14		46	0.081	2.057		G	0.261	6.629
97	0.0059	0.15		45	0.082	2.083		H	0.266	6.756
96	0.0063	0.16		44	0.086	2.184		I	0.272	6.909
95	0.0067	0.17		43	0.089	2.261		J	0.277	7.036
94	0.0071	0.18		42	0.0935	2.375		K	0.281	7.137
93	0.0075	0.191		41	0.096	2.438		L	0.29	7.366
92	0.0079	0.201		40	0.098	2.489		M	0.295	7.493
91	0.0083	0.211		39	0.0995	2.527		N	0.302	7.671
90	0.0087	0.221		38	0.1015	2.578		O	0.316	8.026
89	0.0091	0.231		37	0.104	2.642		P	0.323	8.204
88	0.0095	0.241		36	0.1065	2.705		Q	0.332	8.433
87	0.01	0.254		35	0.11	2.794		R	0.339	8.611
86	0.0105	0.267		34	0.111	2.819		S	0.348	8.839
85	0.011	0.279		33	0.113	2.87		T	0.358	9.093
84	0.0115	0.292		32	0.116	2.946		U	0.368	9.347
83	0.012	0.305		31	0.12	3.048		V	0.377	9.576
82	0.0125	0.318		30	0.1285	3.264		W	0.386	9.804
81	0.013	0.33		29	0.136	3.454		X	0.397	10.08
80	0.0135	0.343		28	0.1405	3.569		Y	0.404	10.26
79	0.0145	0.368		27	0.144	3.658		Z	0.413	10.49
78	0.016	0.406		26	0.147	3.734				
77	0.018	0.457		25	0.1495	3.797				
76	0.02	0.508		24	0.152	3.861				
75	0.021	0.533		23	0.154	3.912				
74	0.0225	0.572		22	0.157	3.988				
73	0.024	0.61		21	0.159	4.039				
72	0.025	0.635		20	0.161	4.089				
71	0.026	0.66		19	0.166	4.216				
70	0.028	0.711		18	0.1695	4.305				
69	0.0292	0.742		17	0.173	4.394				
68	0.031	0.787		16	0.177	4.496				
67	0.032	0.813		15	0.18	4.572				
66	0.033	0.838		14	0.182	4.623				
65	0.035	0.889		13	0.185	4.699				
64	0.036	0.914		12	0.189	4.801				
63	0.037	0.94		11	0.191	4.851				
62	0.038	0.965		10	0.1935	4.915				
61	0.039	0.991		9	0.196	4.978				
60	0.04	1.016		8	0.199	5.055				
59	0.041	1.041		7	0.201	5.105				
58	0.042	1.067		6	0.204	5.182				
57	0.043	1.092		5	0.2055	5.22				
56	0.0465	1.181		4	0.209	5.309				
55	0.052	1.321		3	0.213	5.41				
54	0.055	1.397		2	0.221	5.613				
53	0.0595	1.511		1	0.228	5.791				

Fractional-inch Drill Sizes

Fractional drill bits are defined by the ANSI B94.11M-1979 standard.

Most commonly used in the US, but can still be found occasionally in the UK, these imperial measurement drill bits come in 1/64 inch increments. The fractions used are always in their simplest form, i.e. reduced as far as possible, so 2/64 becomes 1/32 for instance. The drill size chart below gives fractional sizes and their metric conversions up to 1 inch.

Fraction of an inch	inch	mm	Fraction of an inch	inch	mm	Fraction of an inch	inch	mm
1/64	0.0156	0.3969	23/64	0.3594	9.1281	45/64	0.7031	17.8594
1/32	0.0313	0.7938	3/8	0.3750	9.5250	23/32	0.7188	18.2563
3/64	0.0469	1.1906	25/64	0.3906	9.9219	47/64	0.7344	18.6531
1/16	0.0625	1.5875	13/32	0.4063	10.3188	3/4	0.7500	19.0500
5/64	0.0781	1.9844	27/64	0.4219	10.7156	49/64	0.7656	19.4469
3/32	0.0938	2.3813	7/16	0.4375	11.1125	25/32	0.7813	19.8438
7/64	0.1094	2.7781	29/64	0.4531	11.5094	51/64	0.7969	20.2406
1/8	0.1250	3.1750	15/32	0.4688	11.9063	13/16	0.8125	20.6375
9/64	0.1406	3.5719	31/64	0.4844	12.3031	53/64	0.8281	21.0344
5/32	0.1563	3.9688	1/2	0.5000	12.7000	27/32	0.8438	21.4313
11/64	0.1719	4.3656	33/64	0.5156	13.0969	55/64	0.8594	21.8281
3/16	0.1875	4.7625	17/32	0.5313	13.4938	7/8	0.8750	22.2250
13/64	0.2031	5.1594	35/64	0.5469	13.8906	57/64	0.8906	22.6219
7/32	0.2188	5.5563	9/16	0.5625	14.2875	29/32	0.9063	23.0188
15/64	0.2344	5.9531	37/64	0.5781	14.6844	59/64	0.9219	23.4156
1/4	0.2500	6.3500	19/32	0.5938	15.0813	15/16	0.9375	23.8125
17/64	0.2656	6.7469	39/64	0.6094	15.4781	61/64	0.9531	24.2094
9/32	0.2813	7.1438	5/8	0.6250	15.8750	31/32	0.9688	24.6063
19/64	0.2969	7.5406	41/64	0.6406	16.2719	63/64	0.9844	25.0031
5/16	0.3125	7.9375	21/32	0.6563	16.6688	1	1.0000	25.4000
21/64	0.3281	8.3344	43/64	0.6719	17.0656			
11/32	0.3438	8.7313	11/16	0.6875	17.4625			



Centre Drill Bit Sizes

These specialist drill bits are used for drilling centreholes at two different angles, 60 degrees and 90 degrees. They are commonly used to drill lathe centres and spotting drills, i.e. marking holes to guide twist drilling. The drill size chart below contains all commonly used centre drill bit sizes.

Size designation	Drill diameter [inches (mm)]
5/0	0.010 in (0.254 mm)
4/0	0.015 in (0.381 mm)
3/0	0.020 in (0.508 mm)
2/0	0.025 in (0.635 mm)
0	1/32 in (0.794 mm)
1	3/64 in (1.191 mm)
2	5/64 in (1.984 mm)
3	7/64 in (2.778 mm)
4	1/8 in (3.175 mm)
4½	9/64 in (3.572 mm)
5	3/16 in (4.763 mm)
6	7/32 in (5.556 mm)
7	1/4 in (6.350 mm)
8	5/16 in (7.938 mm)
Gauge	Body diameter [inches (mm)]
BS1	1/8 in (3.175 mm)
BS2	3/16 in (4.763 mm)
BS3	1/4 in (6.350 mm)
BS4	5/16 in (7.938 mm)
BS5	7/16 in (11.113 mm)
BS5A	1/2 in (12.700 mm)
BS6	5/8 in (15.875 mm)
BS7	3/4 in (19.050 mm)

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