

METRIC TO IMPERIAL DRILL BIT CONVERSION CHART

Complete mm to Inches Reference · Fractional, Number & Letter Sizes · 0.5 mm – 25.4 mm

PART 1 — 0.5 mm to 9.525 mm (rows 1–24)

Metric (mm)	Decimal Inches	Nearest Fractional	Frac. Decimal	Diff (in)	Nearest # or Letter	NUMBER & LETTER SIZES			
0.5 mm	0.0197"	—	—"	—	#76 (0.0200")	#/Ltr	Inches	mm	Common Use
0.8 mm	0.0315"	—	—"	—	#68 (0.0310")	#80	0.0135"	0.343	Jewelry / micro P
1.0 mm	0.0394"	—	—"	—	#60 (0.0400")	#60	0.0400"	1.016	Watch screws
1.2 mm	0.0472"	—	—"	—	#56 (0.0465")	#53	0.0595"	1.511	#4-40 tap drill
1.5 mm	0.0591"	1/16"	0.0625"	+0.0034	#53 (0.0595")	#36	0.1065"	2.705	#6-32 tap drill
2.0 mm	0.0787"	5/64"	0.0781"	-0.0006	#47 (0.0785")	#29	0.1360"	3.454	#8-32 tap drill
2.5 mm	0.0984"	3/32"	0.0938"	-0.0046	#39 (0.0995")	#21	0.1590"	4.039	#10-32 tap drill
3.0 mm	0.1181"	7/64"	0.1094"	-0.0087	#33 (0.1130")	#7	0.2010"	5.105	1/4-20 tap drill
3.175 mm	0.1250"	1/8"	0.1250"	0.0000	—	F	0.2570"	6.528	1/4-28 tap drill
3.5 mm	0.1378"	9/64"	0.1406"	+0.0028	#28 (0.1405")	I	0.2720"	6.909	5/16-18 tap drill
4.0 mm	0.1575"	5/32"	0.1563"	-0.0012	#21 (0.1590")	Q	0.3320"	8.433	3/8-16 tap drill
4.5 mm	0.1772"	11/64"	0.1719"	-0.0053	#16 (0.1770")	W	0.3860"	9.804	7/16-14 tap drill
4.762 mm	0.1875"	3/16"	0.1875"	0.0000	—	Z	0.4130"	10.490	1/2-13 tap (approx)
5.0 mm	0.1969"	13/64"	0.2031"	+0.0062	#9 (0.1960")	CONVERSION FORMULA			
5.5 mm	0.2165"	7/32"	0.2188"	+0.0023	#3 (0.2130")				
6.0 mm	0.2362"	15/64"	0.2344"	-0.0018	B (0.2380")				
6.35 mm	0.2500"	1/4"	0.2500"	0.0000	—	inches = mm ÷ 25.4		mm = inches × 25.4	
6.5 mm	0.2559"	17/64"	0.2656"	+0.0097	F (0.2570")	* Green rows = exact or near-exact imperial equivalent. Clearance holes → round UP to nearest size. Pilot holes → round DOWN to nearest size.			
7.0 mm	0.2756"	9/32"	0.2813"	+0.0057	J (0.2770")				
7.5 mm	0.2953"	19/64"	0.2969"	+0.0016	N (0.3020")				
7.938 mm	0.3125"	5/16"	0.3125"	0.0000	—				
8.0 mm	0.3150"	5/16"	0.3125"	-0.0025	O (0.3160")				
8.5 mm	0.3346"	21/64"	0.3281"	-0.0065	Q (0.3320")				
9.0 mm	0.3543"	23/64"	0.3594"	+0.0051	T (0.3580")				

METRIC TO IMPERIAL DRILL BIT CONVERSION CHART (continued)

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PART 2 — 10.0 mm to 25.4 mm (rows 25–48)

Metric (mm)	Decimal Inches	Nearest Fractional	Frac. Decimal	Diff (in)	Nearest # or Letter	NUMBER & LETTER SIZES			
9.5 mm	0.3740"	3/8"	0.3750"	+0.0010	V (0.3770")	#/Ltr	Inches	mm	Common Use
9.525 mm	0.3750"	3/8"	0.3750"	0.0000	—	#80	0.0135"	0.343	Jewelry / micro P
10.0 mm	0.3937"	25/64"	0.3906"	-0.0031	X (0.3970")	#60	0.0400"	1.016	Watch screws
10.5 mm	0.4134"	13/32"	0.4063"	-0.0071	—	#53	0.0595"	1.511	#4-40 tap drill
11.0 mm	0.4331"	7/16"	0.4375"	+0.0044	—	#36	0.1065"	2.705	#6-32 tap drill
11.113 mm	0.4375"	7/16"	0.4375"	0.0000	—	#29	0.1360"	3.454	#8-32 tap drill
11.5 mm	0.4528"	29/64"	0.4531"	+0.0003	—	#21	0.1590"	4.039	#10-32 tap drill
12.0 mm	0.4724"	15/32"	0.4688"	-0.0036	—	#7	0.2010"	5.105	1/4-20 tap drill
12.7 mm	0.5000"	1/2"	0.5000"	0.0000	—	F	0.2570"	6.528	1/4-28 tap drill
13.0 mm	0.5118"	33/64"	0.5156"	+0.0038	—	I	0.2720"	6.909	5/16-18 tap drill
14.0 mm	0.5512"	35/64"	0.5469"	-0.0043	—	Q	0.3320"	8.433	3/8-16 tap drill
15.0 mm	0.5906"	19/32"	0.5938"	+0.0032	—	W	0.3860"	9.804	7/16-14 tap drill
16.0 mm	0.6299"	5/8"	0.6250"	-0.0049	—	Z	0.4130"	10.490	1/2-13 tap (approx)
17.0 mm	0.6693"	43/64"	0.6719"	+0.0026	—	CONVERSION FORMULA			
18.0 mm	0.7087"	45/64"	0.7031"	-0.0056	—				
19.0 mm	0.7480"	3/4"	0.7500"	+0.0020	—				
19.05 mm	0.7500"	3/4"	0.7500"	0.0000	—	inches = mm ÷ 25.4		mm = inches × 25.4	
20.0 mm	0.7874"	25/32"	0.7813"	-0.0061	—	* Green rows = exact or near-exact imperial equivalent. Clearance holes → round UP to nearest size. Pilot holes → round DOWN to nearest size.			
21.0 mm	0.8268"	53/64"	0.8281"	+0.0013	—				
22.0 mm	0.8661"	55/64"	0.8594"	-0.0067	—				
23.0 mm	0.9055"	29/32"	0.9063"	+0.0008	—				
24.0 mm	0.9449"	61/64"	0.9531"	+0.0082	—				
25.0 mm	0.9843"	63/64"	0.9844"	+0.0001	—				
25.4 mm	1.0000"	1"	1.0000"	0.0000	—				