

Drill Bit Tap Size Chart: A Machinist’s Quick Reference Guide

When you're threading holes, picking the right drill bit is everything. This chart gives you the standard drill bit sizes for common UNC (Unified National Coarse), UNF (Unified National Fine), and Metric taps, helping you create threads that are strong and accurate. You'll find the nominal drill size, along with its decimal and metric equivalents. Feel free to save this chart as a PDF or print it out to keep handy in your workshop—it's super useful when you're at the drill press.

TAP DESIGNATION ↑↓	TPI / PITCH (MM) ↑↓	RECOMMENDED DRILL BIT SIZE ↑↓	DRILL BIT DECIMAL (IN) ↑↓	DRILL BIT METRIC (MM) ↑↓
#4-40 UNC	40 TPI	#43	0.0890	2.26
#6-32 UNC	32 TPI	#36	0.1065	2.71
#8-32 UNC	32 TPI	#29	0.1360	3.45
#10-24 UNC	24 TPI	#25	0.1495	3.80
#10-32 UNF	32 TPI	#21	0.1590	4.04
#12-24 UNC	24 TPI	#16	0.1770	4.50
1/4"-20 UNC	20 TPI	#7	0.2010	5.11
1/4"-28 UNF	28 TPI	#3	0.2130	5.41
5/16"-18 UNC	18 TPI	F	0.2570	6.53
5/16"-24 UNF	24 TPI	I	0.2720	6.91
3/8"-16 UNC	16 TPI	5/16"	0.3125	7.94
3/8"-24 UNF	24 TPI	Q	0.3320	8.43
7/16"-14 UNC	14 TPI	U	0.3680	9.35
7/16"-20 UNF	20 TPI	X	0.3970	10.08
1/2"-13 UNC	13 TPI	27/64"	0.4219	10.72
1/2"-20 UNF	20 TPI	29/64"	0.4531	11.51
5/8"-11 UNC	11 TPI	17/32"	0.5312	13.49
5/8"-18 UNF	18 TPI	37/64"	0.5781	14.68
3/4"-10 UNC	10 TPI	21/32"	0.6562	16.67
3/4"-16 UNF	16 TPI	11/16"	0.6875	17.46
1"-8 UNC	8 TPI	7/8"	0.8750	22.23
1"-12 UNF	12 TPI	59/64"	0.9219	23.42
M3 x 0.5	0.5 mm	2.5 mm	0.0984	2.50
M4 x 0.7	0.7 mm	3.3 mm	0.1299	3.30
M5 x 0.8	0.8 mm	4.2 mm	0.1654	4.20
M6 x 1.0	1.0 mm	5.0 mm	0.1969	5.00
M8 x 1.25	1.25 mm	6.8 mm	0.2677	6.80
M10 x 1.5	1.5 mm	8.5 mm	0.3346	8.50
M12 x 1.75	1.75 mm	10.2 mm	0.4016	10.20
M14 x 2.0	2.0 mm	12.0 mm	0.4724	12.00
M16 x 2.0	2.0 mm	14.0 mm	0.5512	14.00

31 rows