7/16-20 Tap Drill Chart

Unified National Fine (UNF) · 20 threads per inch · ASME B1.1

TAP DRILL (72% THREAD)

25/64" = 0.3906 in = 9.92 mm

Drills for 7/16-20 (50–85% thread)

DRILL	INCH	MM	% THREAD	
Y	0.4040	10.26	52%	
X	0.3970	10.08	62%	
25/64"	0.3906	9.92	72%	Recommended
W	0.3860	9.80	79%	

Clearance hole (bolt passes through)

FIT	DRILL	INCH	MM
Close	15/32"	0.4688	11.91
Normal	1/2"	0.5000	12.70
Loose	17/32"	0.5313	13.49

Thread dimensions (basic)

DIMENSION	INCH	MM
Major diameter (basic)	0.4375	11.11
Pitch diameter (basic)	0.4050	10.29
Minor diameter, internal (basic)	0.3834	9.74
Pitch (1/20 in)	0.0500	1.27

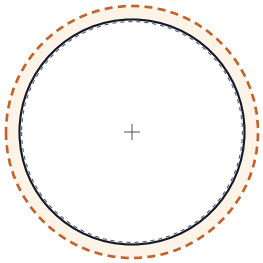
Actual size

Print at 100% scale ("Actual size", not "Fit to page"). Check with the rulers below.



Dashed copper circle: thread major diameter; solid: tap drill hole; dotted: basic minor diameter.

Enlarged 3x:



Tap drill, actual size (9.92 mm):







Scan for the interactive version:

whatsizeis.com/tap-drill/7-16-20/

Values from the ASME B1.1, ISO 261/68-1 and ASME B1.20.1 thread formulas; drill sizes per ASME B94.11M; clearance holes per ISO 273. Method: whatsizeis.com/how-we-calculate/