7/16-28 Tap Drill Chart

Unified National Extra Fine (UNEF) · 28 threads per inch · ASME B1.1

TAP DRILL (72% THREAD)

Y = 0.4040 in = 10.26 mm

Drills for 7/16-28 (50–85% thread)

DRILL	INCH	MM	% THREAD	
Z	0.4130	10.49	53%	
13/32"	0.4063	10.32	67%	
Y	0.4040	10.26	72%	Recommended

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)	0.4143	10.52
Minor diameter, internal (basic)	0.3988	10.13
Pitch (1/28 in)	0.0357	0.91

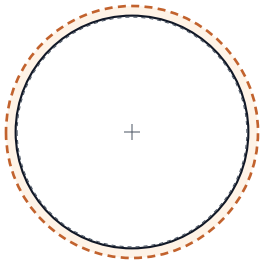
Actual size

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 (10.26 mm):







Scan for the interactive version:

whatsizeis.com/tap-drill/7-16-28/

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/