5/16-32 Tap Drill Chart

Unified National Extra Fine (UNEF) · 32 threads per inch · ASME B1.1

TAP DRILL (77% THREAD)

9/32" = 0.2813 in = 7.14 mm

Drills for 5/16-32 (50–85% thread)

DRILL	INCH	MM	% THREAD	
L	0.2900	7.37	55%	
9/32"	0.2813	7.14	77%	Recommended
K	0.2810	7.14	78%	

Clearance hole (bolt passes through)

FIT	DRILL	INCH	MM
Close	Q	0.3320	8.43
Normal	T	0.3580	9.09
Loose	25/64"	0.3906	9.92

Thread dimensions (basic)

DIMENSION	INCH	MM
Major diameter (basic)	0.3125	7.94
Pitch diameter (basic)	0.2922	7.42
Minor diameter, internal (basic)	0.2787	7.08
Pitch (1/32 in)	0.0313	0.79

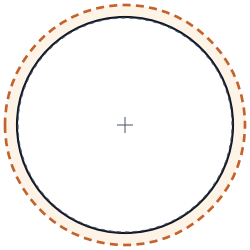
Actual size

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 4x:



Tap drill, actual size (7.14 mm):







Scan for the interactive version:

whatsizeis.com/tap-drill/5-16-32/

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/