6-32 Tap Drill Chart

Unified National Coarse (UNC) · 32 threads per inch · ASME B1.1

TAP DRILL (78% THREAD)

#36 = 0.1065 in = 2.71 mm

Drills for 6-32 (50–85% thread)

DRILL	INCH	MM	% THREAD	
#32	0.1160	2.95	54%	
#33	0.1130	2.87	62%	
#34	0.1110	2.82	67%	
#35	0.1100	2.79	69%	
7/64"	0.1094	2.78	71%	
#36	0.1065	2.71	78%	Recommended
#37	0.1040	2.64	84%	

Clearance hole (bolt passes through)

FIT	DRILL	INCH	MM
Close	#26	0.1470	3.73
Normal	#23	0.1540	3.91
Loose	#19	0.1660	4.22

Thread dimensions (basic)

DIMENSION	INCH	MM
Major diameter (basic)	0.1380	3.51
Pitch diameter (basic)	0.1177	2.99
Minor diameter, internal (basic)	0.1042	2.65
Pitch (1/32 in)	0.0313	0.79

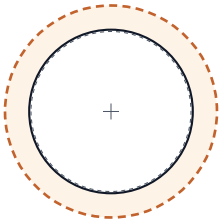
Actual size

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

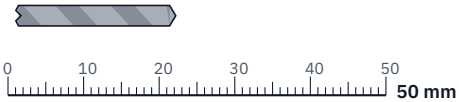


Dashed copper circle: thread major diameter; solid: tap drill hole; dotted: basic minor diameter.

Enlarged 8x:



Tap drill, actual size (2.71 mm):





Scan for the interactive version:

whatsizeis.com/tap-drill/6-32/

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/