1-1/2-12 Tap Drill Chart

Unified National Fine (UNF) · 12 threads per inch · ASME B1.1

TAP DRILL (72% THREAD)

1-27/64" = 1.4219 in = 36.12 mm

Drills for 1-1/2-12 (50–85% thread)

DRILL	INCH	MM	% THREAD	
1-7/16"	1.4375	36.51	58%	
1-27/64"	1.4219	36.12	72%	Recommended

Clearance hole (bolt passes through)

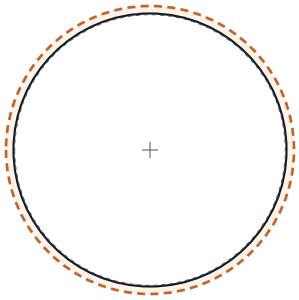
FIT	DRILL	INCH	MM
Close	1-35/64"	1.5469	39.29
Normal	1-5/8"	1.6250	41.28
Loose	1-3/4"	1.7500	44.45

Thread dimensions (basic)

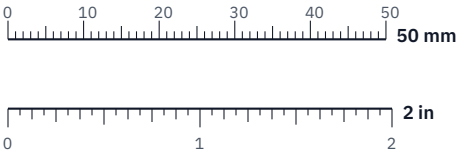
DIMENSION	INCH	MM
Major diameter (basic)	1.5000	38.10
Pitch diameter (basic)	1.4459	36.73
Minor diameter, internal (basic)	1.4098	35.81
Pitch (1/12 in)	0.0833	2.12

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.



Scan for the interactive version:

whatsizeis.com/tap-drill/1-1-2-12/

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/