M12 Tap Drill Chart

Metric coarse (ISO) · 1.75 mm pitch · ISO 261 / ISO 68-1

TAP DRILL (79% THREAD)

10.2 mm = 0.4016 in = 10.20 mm

Drills for M12 (50–85% thread)

DRILL	INCH	MM	% THREAD	
10.8 mm	0.4252	10.80	53%	
10.7 mm	0.4213	10.70	57%	
10.6 mm	0.4173	10.60	62%	
10.5 mm	0.4134	10.50	66%	
10.4 mm	0.4094	10.40	70%	
10.3 mm	0.4055	10.30	75%	
10.2 mm	0.4016	10.20	79%	Recommended
10.1 mm	0.3976	10.10	84%	

Clearance hole (bolt passes through)

FIT	DRILL	INCH	MM
Close	13 mm	0.5118	13.00
Normal	13.5 mm	0.5315	13.50
Loose	14.5 mm	0.5709	14.50

Thread dimensions (basic)

DIMENSION	INCH	MM
Major diameter (basic)	0.4724	12.00
Pitch diameter (basic)	0.4277	10.86
Minor diameter, internal (basic)	0.3979	10.11
Pitch	0.0689	1.75

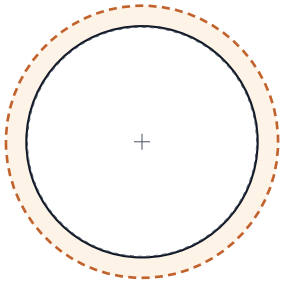
Actual size

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



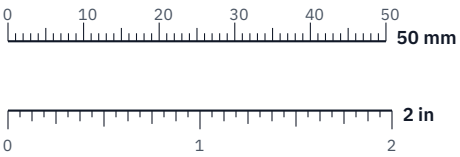
Dashed copper circle: thread major diameter; solid: tap drill hole; dotted: basic minor diameter.

Enlarged 3x:



Tap drill, actual size (10.20 mm):





Scan for the interactive version:

whatsizeis.com/tap-drill/m12/

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/