M12x1 Tap Drill Chart

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

TAP DRILL (77% THREAD)

11 mm = 0.4331 in = 11.00 mm

Drills for M12x1 (50–85% thread)

DRILL	INCH	MM	% THREAD	
11.3 mm	0.4449	11.30	54%	
11.2 mm	0.4409	11.20	62%	
11.1 mm	0.4370	11.10	69%	
11 mm	0.4331	11.00	77%	Recommended
10.9 mm	0.4291	10.90	85%	

Clearance hole (bolt passes through)

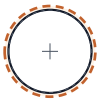
FIT	DRILL	INCH	MM
Close	13 mm	0.5118	13.00
Normal	13.5 mm	0.5315	13.50
Loose	14.5 mm	0.5709	14.50

Thread dimensions (basic)

DIMENSION	INCH	MM
Major diameter (basic)	0.4724	12.00
Pitch diameter (basic)	0.4469	11.35
Minor diameter, internal (basic)	0.4298	10.92
Pitch	0.0394	1.00

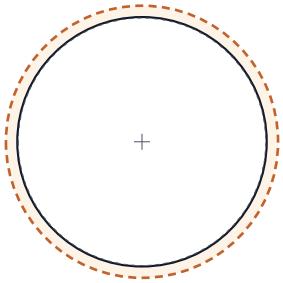
Actual size

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

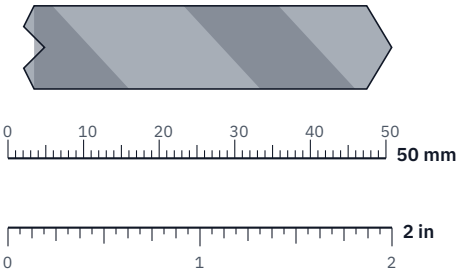


Dashed copper circle: thread major diameter; solid: tap drill hole; dotted: basic minor diameter.

Enlarged 3x:



Tap drill, actual size (11.00 mm):



Scan for the interactive version:

whatsizeis.com/tap-drill/m12x1/

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/