# 4-40 Tap Drill Chart

Unified National Coarse (UNC) · 40 threads per inch · ASME B1.1

TAP DRILL (71% THREAD)

**#43** = 0.0890 in = 2.26 mm

## Drills for 4-40 (50–85% thread)

| DRILL | INCH | MM | % THREAD | |
|---|---|---|---|---|
| 3/32" | 0.0938 | 2.38 | 56% | |
| #42 | 0.0935 | 2.37 | 57% | |
| #43 | 0.0890 | 2.26 | 71% | Recommended |
| #44 | 0.0860 | 2.18 | 80% | |

## Clearance hole (bolt passes through)

| FIT | DRILL | INCH | MM |
|---|---|---|---|
| Close | #31 | 0.1200 | 3.05 |
| Normal | #30 | 0.1285 | 3.26 |
| Loose | #29 | 0.1360 | 3.45 |

## Thread dimensions (basic)

| DIMENSION | INCH | MM |
|---|---|---|
| Major diameter (basic) | 0.1120 | 2.84 |
| Pitch diameter (basic) | 0.0958 | 2.43 |
| Minor diameter, internal (basic) | 0.0849 | 2.16 |
| Pitch (1/40 in) | 0.0250 | 0.64 |

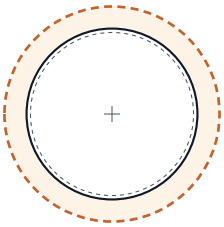
## Actual size

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 10x:**



**Tap drill, actual size (2.26 mm):**









Scan for the interactive version:

**whatsizeis.com/tap-drill/4-40/**

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/