

Drilling on a CNC lathe uses the same basic principles as drilling on machining centers, with one notable exception - fixed cycles are virtually never used. The reason is quite simple - only a single hole can be machined with a given drill diameter. In this project, the objective is to make two small programs for the drilling operation only.

**If necessary,
use #5 center drill to start the hole**

➡ Program 34-04A:

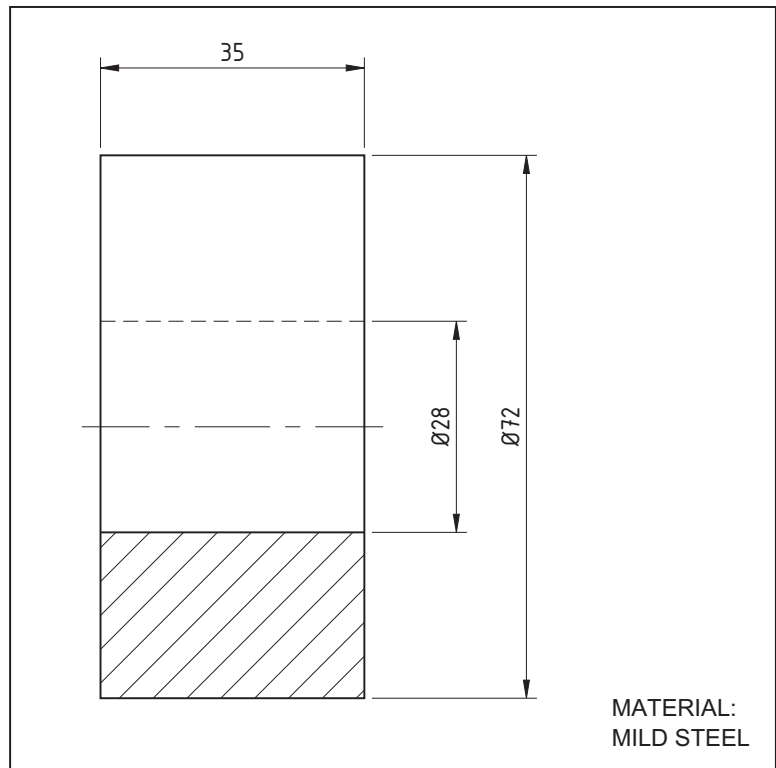
Use $\varnothing 28$ mm standard HSS *twist* drill to machine the hole through, in one motion

Use G00 and G01 motions only

➡ Program 34-04B:

Use $\varnothing 28$ mm *indexable carbide* drill to machine the hole through, in one motion

Use G00 and G01 motions only



For the **34-04B** program, lookup the suitable drill in a tooling catalogue of your choice, and write its catalogue number below:



Reference:

Chapter 26 *Machining Holes*
Chapter 34 *Turning and Boring*