

Pen and Pencil AWA Demonstration - February 2, 2024

Drill Bits, Drives and Jigs

5/32 X 6 Cobalt A/C Ext Drill Bit - GLBCOX65/32

5/32 regular wood drill bit

17/64 X 6in with 5/32 X ½ inch tip

<http://www.nickcookwoodturner.com/articles-pencil-pusher.htm>

<http://nickcookwoodturner.com/>

I could not find the step drill bit on Nick Cook's page or on Craft Supply

Robert Sorby live center

Robert Sorby drive center

Apprentice Pen Center

¼ inch dowel with turned shoulder drive jig

5/32 inch Apprentice Pen Center for pencil and pen tip stabilizer jig

Turners ½ inch Key Drill Chuck

Oneway Smooth Spigot Jaw Set

Pen and Pencil materials - Amazon

- BIC 751766084321 Cristal Xtra Smooth Pens Blue Medium Point. 10-Pack
- Pentel 0.5mm (P205) Black P200 Series Automatic Mechanical Drafting Pencil Refillable Lead Eraser P205-A (Pack of 6)

Pencil Blank - 4.5 inches

Pen Blank - 6 inches

Pencil and Pen Instructions

1. Cut blanks ¾ inch X ¾ inch X length of pen or pencil.
2. Find centers of the blanks and using the Sorby live and drive centers, turn the blank down to approximately 9/16 inches.
3. Using the 5/32 regular wood drill bit, start the hole for the step drill bit. Drill at least 2 inches into the blank as a guide hole.
4. Pencil - Using the special step drill bit, drill the pencil blank so that the shoulder of the drill bit is approximately 3/16 inches from the end of the blank. This will leave approximately 5/16 inches of the drill bit protruding from the end of the blank.
** NOTE: if you cannot get the special step drill bit, I would drill the blank first with the 5/32 X 6 drill bit followed by the 17/64 inch drill bit making sure that you leave approximately 3/16 inch shoulder for the pencil shoulder to rest on.
Pen - Using the 5/32 X 6 Cobalt A/C Ext Drill Bit, drill into the blank 4 ⅞ inches.
5. Using the ¼ inch dowel with turned shoulder drive jig, and the pencil and pen tip stabilizer jig, turn, sand and finish the pen/pencil.