

Project Tutorial

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Current Version of:



Sample Carved with:
ShopBot Buddy
PRSalpha BT48

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Faux Wood Slab K-Cup Holder/Dispenser

Designed for Vetric™ by Michael Tyler

One of the most popular home beverage systems today is the single-cup coffee maker. Hot chocolates, teas and other hot beverages can be dispensed from many of these machines in addition to a variety of coffee flavors and blends. Most of these systems use a standard-size cup container that holds a flavored concentrate for mixing with hot water. These cups are commonly known as K-cups.

This project provides a useful way to organize and store up to twenty K-cups conveniently nearby your home beverage machine. The storage holder rotates on a small Lazy Susan bearing to view your beverage selections.

The design and finishing technique gives the appearance that the holder was made from slices and slabs of small logs or branches with the bark left on them. This will fit well with any country kitchen theme or even as a nice design contrast in a more contemporary kitchen environment.

The dimensions are about 7" Round x 12" Tall.



Main items you will need:

1) The Project Files (included):

- Base-and-Top.crv3d
- Four_K_Panels.crv3d
- Pentas_K_Panel.crv3d

2) Material with these dimensions:

- Base and Top: 0.75" x 9" x 23.5"
- Four K Panels: 0.75" x 9" x 23"
- Pentas_K Panel: 0.75" x 11" x 13"

3) Eight #6 x 0.5" screws, drill and 3/32" drill bit, 4" Lazy Susan bearing

4) Wood glue, CA glue (super glue), sandpaper, clamps, wood stain and/or paint and clear finish

5) A Dremel-type rotary tool with assorted sanding wheels and bits



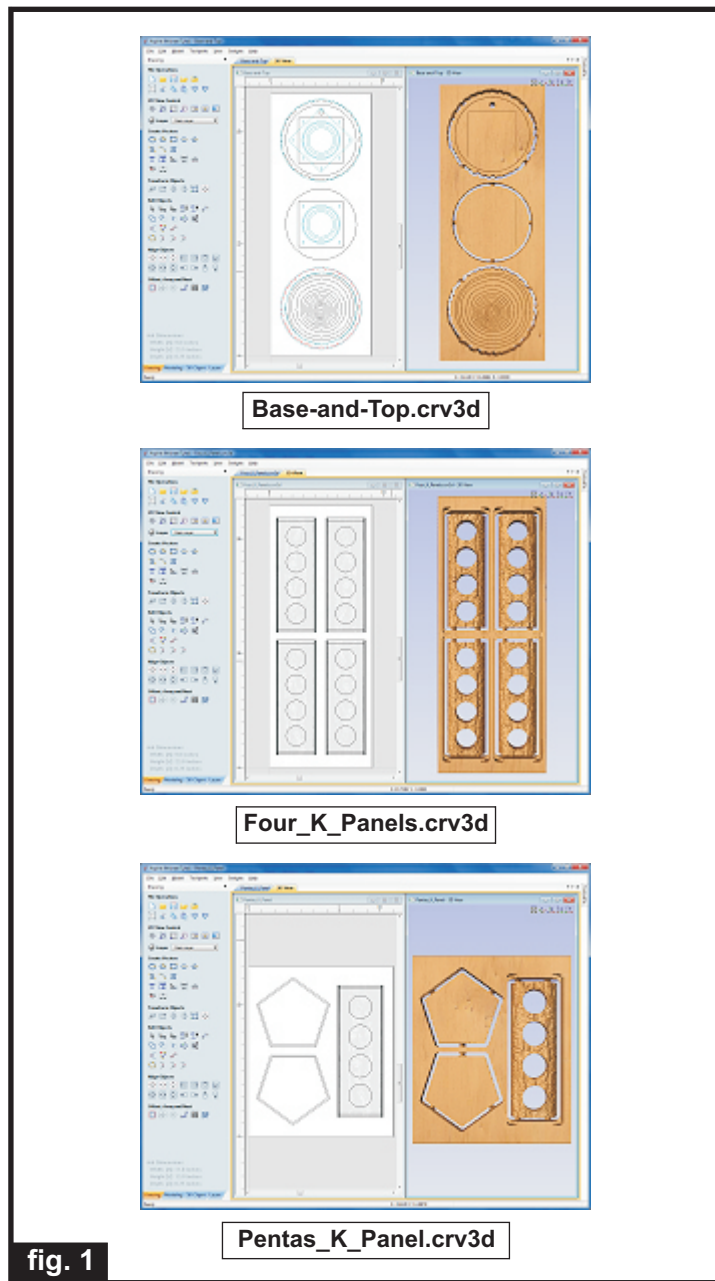
CNC Bits used for the Sample:

- 0.125" Tapered Ball Nose (BN)
- 0.25" Down-Cut End Mill (DC EM)
- 60° V-Bit

Faux Wood Slab K-Cup Holder/Dispenser (cont.)

STEP 1 - Open and Review the Project Files

Open the file(s) in your Aspire software. (fig. 1)



STEP 2 - Run the Project

When you are satisfied with your settings, save the toolpaths to the appropriate Post Processor for your machine, place your material on your machine bed and proceed to run the files. (fig. 2a, 2b)



fig. 2a

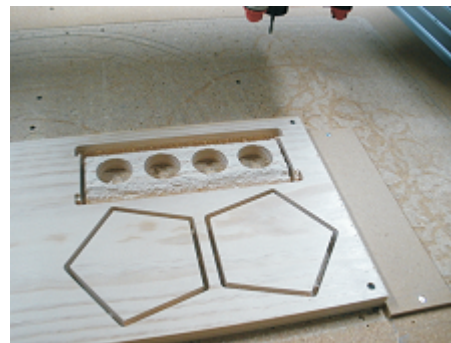


fig. 2b

STEP 3 - Release Parts from Material

Separate the parts from the material, then sand off any tab remnants and undesirable toolmarks. (fig. 3a, 3b,)



fig. 3a



fig. 3b

Carefully review all the toolpaths and make any necessary changes to suit your particular bits and machine. The toolpaths are currently set with feeds, speeds and pass depths that were used in creating the original sample. Please don't use them directly until you review them for your own setup. **It is VERY IMPORTANT to recalculate all toolpaths after making any edits/changes.** Preview all toolpaths again to visually verify the project outcome on-screen before running the files.

Faux Wood Slab K-Cup Holder/Dispenser (cont.)

STEP 4 - Panel Parts Prep and Assembly

Apply masking tape to the backside ends of the five bark slab panels. Cover about .5" at each end. The tape leaves the wood "bare" for glue-up to follow. Apply two or three coats of full-strength Zinsser Seal Coat (a 100% wax-free shellac) to both sides of the panels and the pentagon shapes.

You won't have access to the interior of the panel assembly later, so this will be the final finish for the interior. If you would rather stain the inside first, before applying the Seal Coat, then do it now. (fig. 4a)



fig. 4a

After the Seal Coat is dry, remove the masking tape and glue the panels to the pentagon shapes. Apply wood glue and a few drops of CA glue to "tack" the parts in place during assembly. You can use Zip Kicker accelerant to instantly set the CA glue. Clamp with band clamps until dry. (fig. 4b, 4c)



fig. 4b



fig. 4c

STEP 5 - Finish Application

Apply three coats of Seal Coat on both sides of the base and top components. Allow to dry. (fig. 5a)



fig. 5a

Apply acrylic craft paint in "bark and wood" colors to the "bark" areas. I used dark brown as a base coat, then stippled, dry-brushed and pounced lighter browns and greys to the rough bark surfaces. (fig. 5b, 5c, 5d, 5e, 5f)



fig. 5b

Apply dark brown paint



fig. 5c

Apply lighter paints



fig. 5d

Wipe off paint in circular motion



fig. 5e

Dark brown around edge



fig. 5f

All parts painted and Krylon clearcoat applied

Faux Wood Slab K-Cup Holder/Dispenser (cont.)

STEP 6 - Final Assembly

After the finish is dry, glue the panel assembly centered onto the smooth round component. Allow to dry. (fig. 6a)



fig. 6a

Place the bearing into the pocket of the bark base part. Make sure the outermost offset holes line up with the access hole. Mark and drill pilot holes then install the bearing with four #6 x 0.5" screws. (fig. 6b, 6c)



fig. 6b

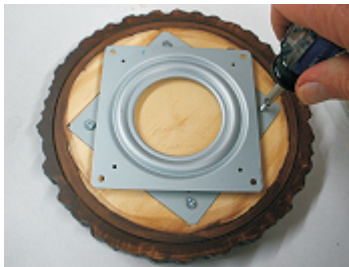


fig. 6c

Flip the assembly over and place the bearing into the pocket of the panel assembly base. Make pilot holes and install four more screws via the access hole. (fig. 6d, 6e)



fig. 6d



fig. 6e

Finally, while the assembly is still upside down, glue the "growth ring" slab to the top of the assembly, "eyeballing" the center. Weigh down and allow to dry. (fig. 6f)



fig. 6f

IN CONCLUSION

I hope you enjoyed making your Faux Wood Slab K-Cup Holder! As a final finishing touch, you may want to apply cork or silicon rounds to the base surface.

Happy Carving!

Michael



Materials Source Page

- **3M Radial Bristle Discs** from www.mcmaster.com
(stack 3 discs at a time on your rotary tool mandrel)

80-grit: part # 4494A19
220-grit: part # 4494A18



Krylon Clear Gloss and Flat Acrylic from WalMart™

Items Purchased at Home Depot™ or Lowes™

- Zinsser Bulls Eye Seal Coat (100% wax-free clear shellac)
- #6 x 0.5" screws
- Sandpaper
- Disposable Brushes and Paint Rags



Items Purchased at Amazon.com

- Shepherd Hardware #9547 4" Lazy Susan Turntable Bearing

http://www.amazon.com/dp/B001EI2SL6/ref=wl_it_dp_o_pC_nS_ttl_encoding=UTF8&colid=4TPOMQHB IJMY&coliid=I3S9HZAB9U



Other Lazy Susan Bearing Sources:

- Rockler.com - <http://www.rockler.com/low-profile-lazy-susans>

NOTE: Direct weblinks and prices were valid at time of this writing, but can change at any time. If links don't work, then try visiting the website's home page and do a Search for the item to get directed to a current/valid page.

Additional Resources

RESOURCES...

There are numerous resources for Vectric software owners to make their experience with their products more enjoyable. The Vectric website includes video tutorials and more, to provide a good overview of the software products and how to use them. Please visit the Support page for a complete listing of available resources for you.

Vectric Support: <http://support.vectric.com/>

Vectric User Forum

Every owner should join the Vectric User Forum (<http://www.vectric.com/forum/>) where fellow users share their experience and knowledge on a daily basis. It is a FREE service that you will surely appreciate. A handy Search Feature helps you find answers to any questions you may have. There are Gallery sections as well, where you can post and view photos of projects created with Vectric software.

IMPORTANT: Before outputting any toolpaths you should carefully check all part sizes and the material setup to make sure they are appropriate for your actual setup. You should also check and re-calculate all toolpaths with safe and appropriate settings for your material, CNC machine and tooling.

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