Classic Round Wall Clock
Designed for CarveWright™ by Michael Tyler - www.carvebuddy.com
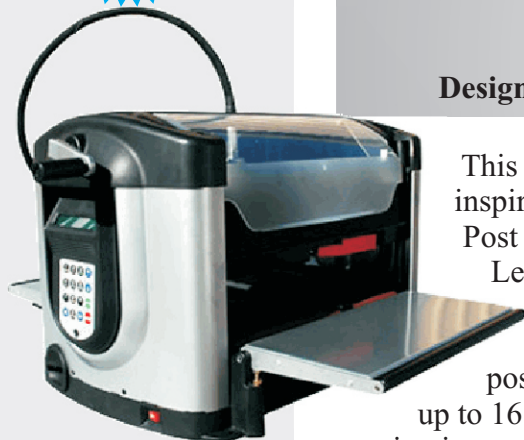
This classic round clock was inspired by early 20th-Century Post Office clocks made by the Lenzkirch clock factory in Germany, circa 1910. The original round Lenzkirch post office clocks were often up to 16 inches in diameter. This version is a reduced size at just under a 10 " diameter, is 1½ " thick and remains faithful to the overall design style.

This clock will compliment just about any home decor and makes a wonderful gift item.

The entire project is carved and cut out with just the two bits that came with your machine, and utilizes just a single board.

Main items you will need:

1) The Project File (included):
  • Classic Round Clock.mpc

2) One board with the following dimensions:
.75 " x 11 " x 29 "

  NOTE: Do not use boards that are shorter in length than specified above.

3) Clock insert with $5\,^{7}/_{8}$" face and $3\,^{1}/_{4}$" mounting diameter (we used Style #15340 from http://www.klockit.com)
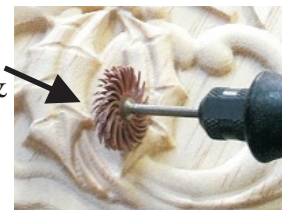
4) Sandpaper, wood stain and clear finish

5) A Dremel-type rotary tool with assorted sanding wheels and bits to sand small details and speed up preparation for finishing.

I also use 80 and 220-grit 3M Radial Bristle Discs, stacking 3 on my rotary tool mandrel to speed up detail sanding.
I get my discs from www.mcmaster.com #4494A19 (80 grit) & #4494A18 (220 grit).
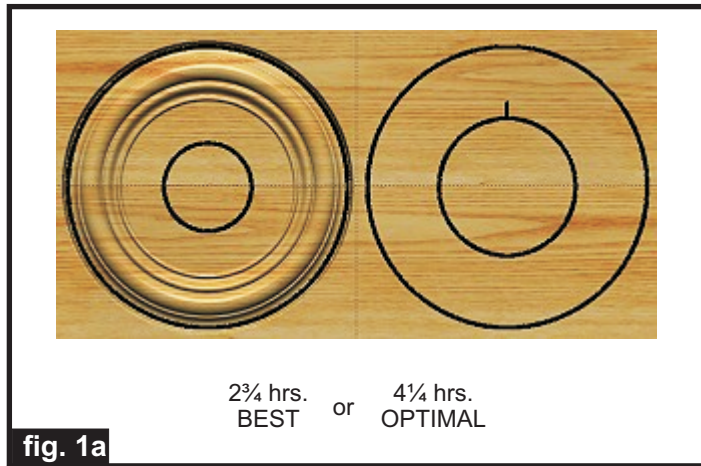
STEP 1
Start your Designer software and open the .mpc file. (fig. 1a)

2¾ hrs.
BEST

or

4¼ hrs.
OPTIMAL

fig. 1a

All you need to do at this point is upload the project files to your memory card. (File/Upload). When you upload, you may or may not get a pop-up window with an "Auto-Jig" warning message (fig. 1b)
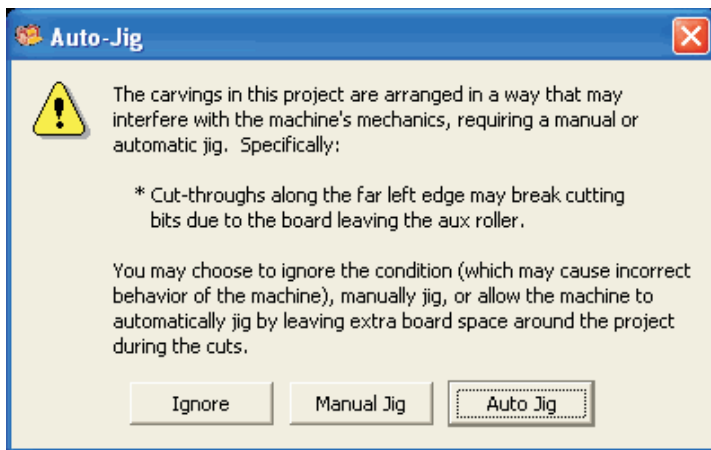

fig. 1b

If you do see the message, you may safely click on "Ignore" because the actual board will be large enough that it won't cause any problems at all. After the project is compiled, select "Best" or "Optimal" for the File Quality setting. **I recommend the "Optimal" setting for this project.**

Click "OK" and upload the mpc project file to your memory card. Insert the card into your machine and load a board that measures the appropriate dimension specified for the mpc (see pg. 1 for board dimensions). Turn on your machine and proceed with the standard project setup in Step 2...

STEP 2
You will see "Project Menu" on your LCD display. Press "1" then scroll to the **Classic Round Clock.mpc** project, and press the green ENTER button to select it. Then follow the additional prompts....

• **Stay Under Rollers** - press 1) YES

• **DO NOT RESIZE or SCALE any project!** If prompted, always keep the original size. No scaling!

• **How to Place** - press 1) Center

• **Cut Board to Size?** - press 2) NO

• **Select Vector Bit: 1/8" Cutting** - Press the green ENTER button. (Moves to center of machine.)

• **Load Bit:1/8" Cutting** -Insert your 1/8" cutting bit, then press the green ENTER button. (homes, etc.)

• **Select Cutting Bit: 1/8" Cutting** - Just press ENTER, since the 1/8" cutting bit is already installed.

• **Select Carving Bit: 1/16" Carving** - Press the green ENTER button. (Moves to center of machine.)

• **Load Bit: 1/16" Carving** - Remove the 1/8" cutting bit, and insert your 1/16" carving bit, then press the green ENTER button. After homing and finding surface, the machine will begin the carving process.

• **After it is done carving, you will be prompted to load your 1/8" cutting bit.** Take out the 1/16" carving bit, clean the chuck, insert your 1/8" cutting bit. Vacuum out excess sawdust debris, then press the green ENTER button. Cutouts are always performed last, after all raster carving is completed.

The machine will now proceed to perform the cutouts as it moves around the component outlines. It leaves little tabs to hold the parts in the board. When finished, remove your board and clean your machine.

Page 2   **Designed** by Michael Tyler
www.carvebuddy.com   **CarveWright Project Tutorial**
www.carvewright.com

STEP 2 (cont.)

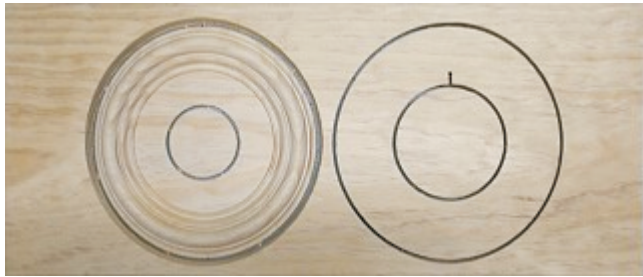Your board will look like this (fig. 2)

fig. 2

STEP 3

Separate the pieces from the board with a utility knife or hobby saw. (fig. 3a)

fig. 3a

Sand off the tabs in the inside of the circles, then glue the top and bottom halves together, alternating the grain direction to help prevent warping. Clamp the parts until dry. (fig. 3b, 3c)

fig. 3b

fig. 3c

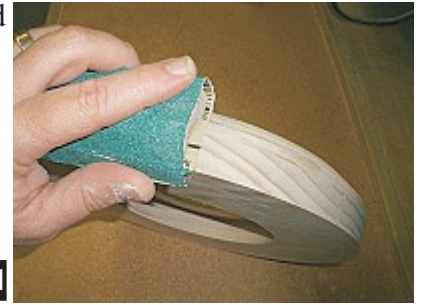Remove the clamps and sand the outside rings flush with each other. (fig. 3d)

fig. 3d

Sand everything to remove any fuzzies and undesirable tool marks. Use a Dremel-type tool with various 3M abrasive wheels to make the job go faster. (fig. 3e)
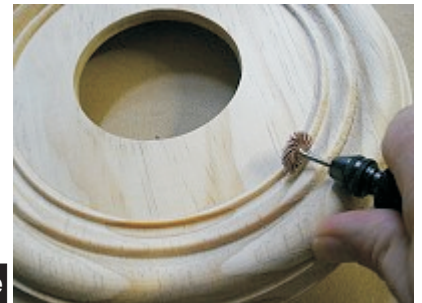

fig. 3e

STEP 4

Apply stain/paint and clearcoat of your choice. Here's what I used on my Round Clock project made from Select Pine wood:

• One very light coat of thinned Bullseye Sealcoat (2 parts sealer/3 parts Denatured alcohol) (fig. 4a)

• Sanded again with fine sandpaper and 3M wheels

fig. 4a

• Minwax stain Red Oak #215 (fig. 4b)

fig. 4b

• Several spray coats of Krylon Crystal Clear Satin Acrylic, spot-sanding some areas with 400-grit wet/dry sandpaper between coats.
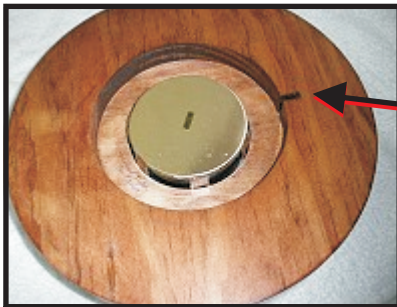
STEP 5

Install the clock insert with the 12 o'clock position lined up with the backside nail slot for hanging. fig. 5a, 5b)

fig. 5a

fig. 5b

12 o'clock position should line up with nail slot on back

IN CONCLUSION

I hope you will enjoy your Classic Round Clock project for many years to come. Make several, using different varieties of woods and stains to sell at craft shows, donate to fund raisers or give away as gifts!

Happy Carving!

Michael

Materials Source Page

Clock inserts from www.klockit.com
We used the 5 $^7/_8$" Gold Roman Dial
part # 15340

Krylon Clear Gloss Acrylic
from WalMart™

Other Miscellaneous Items Purchased at Lowes™ or Home Depot™

• **Minwax Stain - Red Oak # 215**

• **Bullseye Sealcoat**

• **Denatured Alcohol**

• **Disposable Brushes and Paint Rags**

Additional Resources

RESOURCES...
There are numerous resources for the CarveWright/CompuCarve owner to make their experience with these machines much more enjoyable.

Every owner should join the CarveWright User Forum (http://forum.carvewright.com/index.php) where fellow users share their experiences and knowledge with these machines 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.