The Bell Woodturner's and the



Welcome you to this event.



Don Geiger

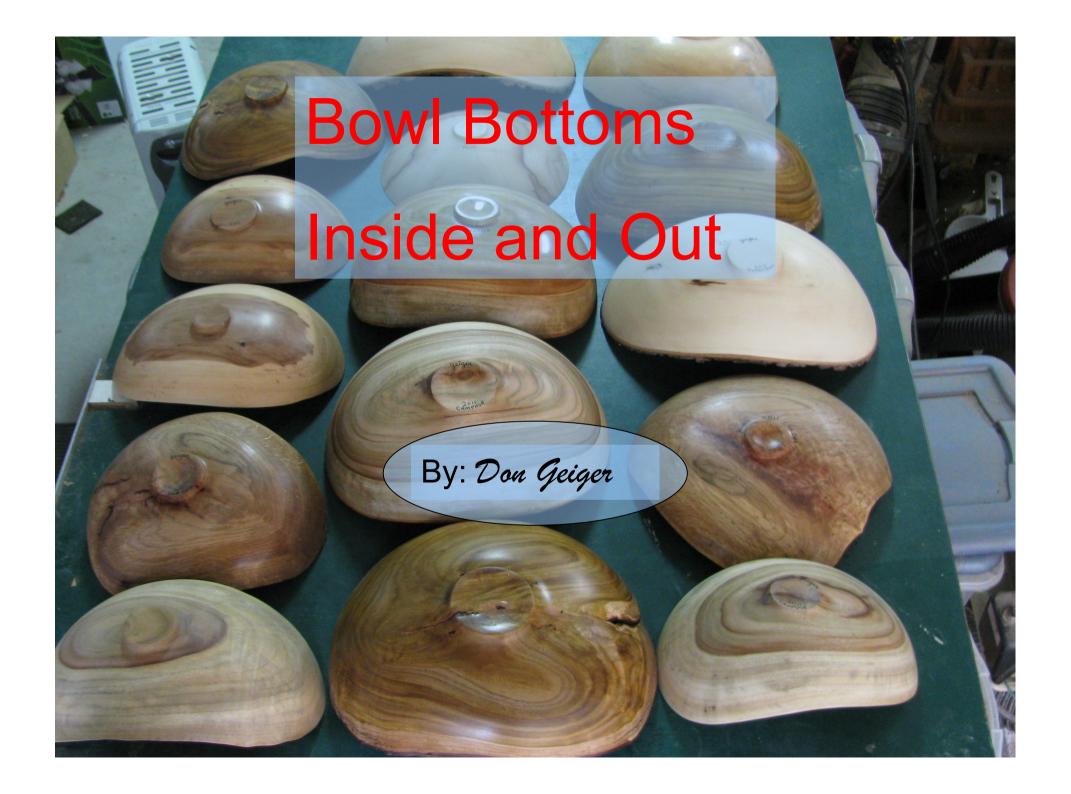
2014 Demo Series:

- Mastering the Side-Ground Bowl Gouge
- Tuning Up a Grinder and Sharpening
- Turning an Odd Wobbler
- Turning a Hollow Form
- Bowl Bottoms Inside and Out

Notes about safety:

Warning! Turning wood and tool sharpening can be a serious health hazard!

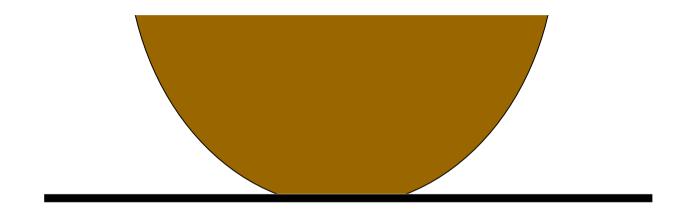
- Protect your face and eyes with a face shield.
- Protect your respiratory system and ventilate your work area with a proper dust collection system.
- Don't wear loose clothing or jewelry. Tie up long hair.
- Remove all moldy and spalted wood and shavings immediately.
- Protect your skin from toxic materials. Be aware that some woods may cause serious allergic reactions.
- Work sober- never under the influence of drugs or alcohol.
- Be sure that factory guards are installed properly on grinders.
- Never sharpen tools on the side of grinding wheels and never dress the sides of the wheels.

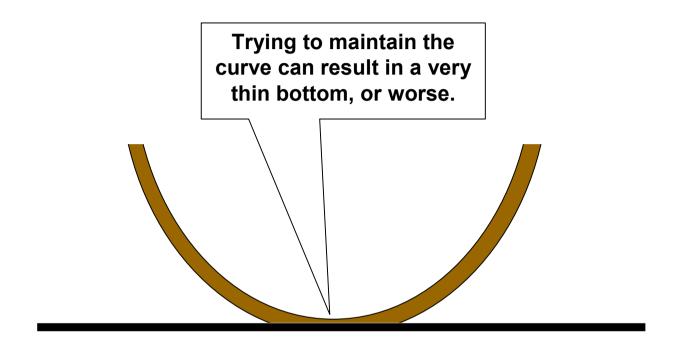


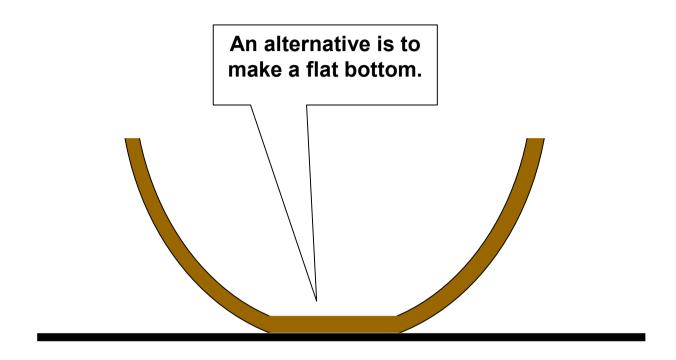


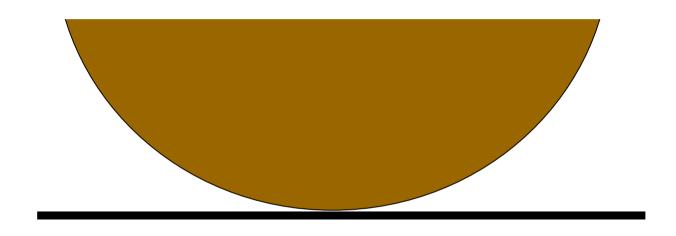
Nut bowl

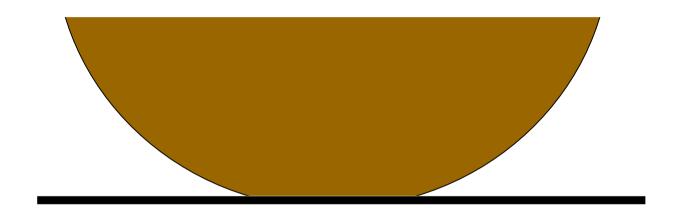


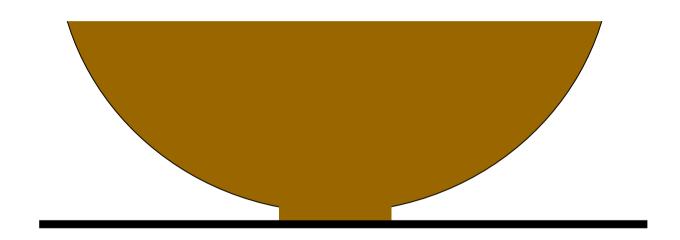


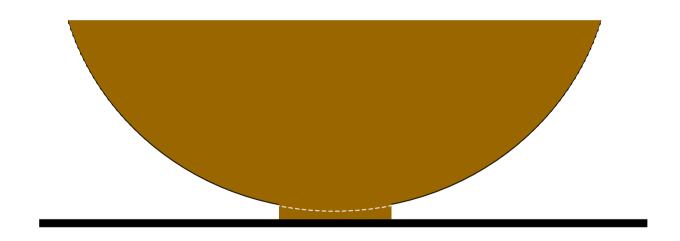


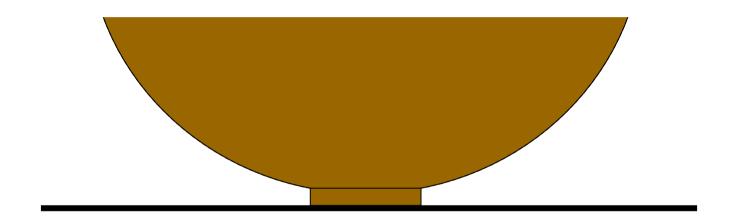




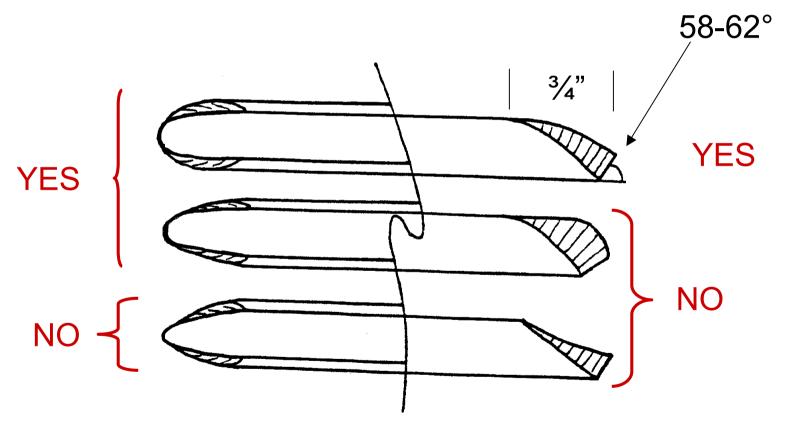






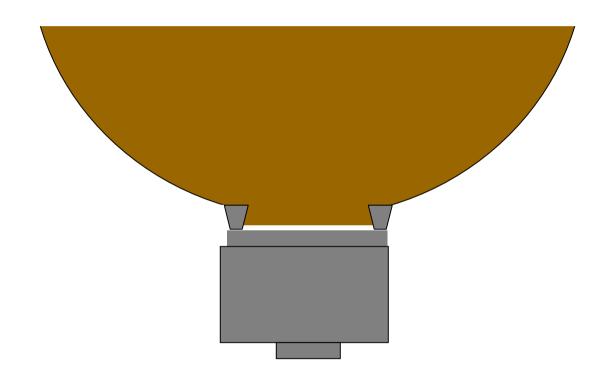


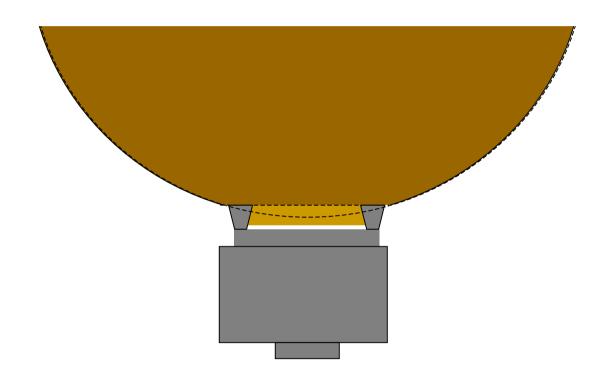
Side-Ground Bowl Gouge Desired Shape



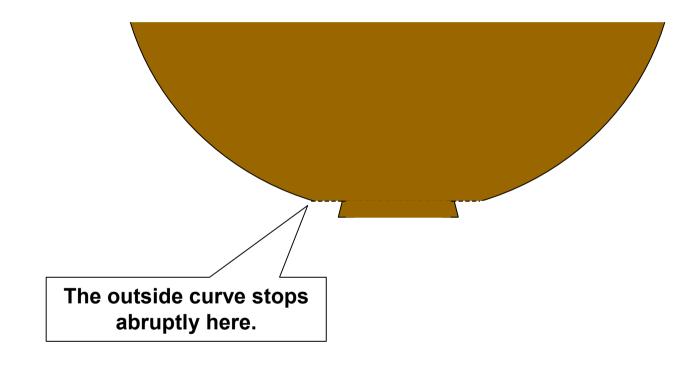
Enhancements by: Don Geiger

Drawing by: David Ellsworth

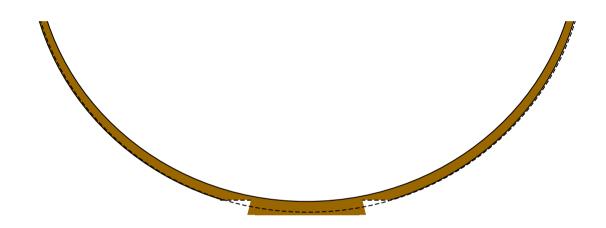




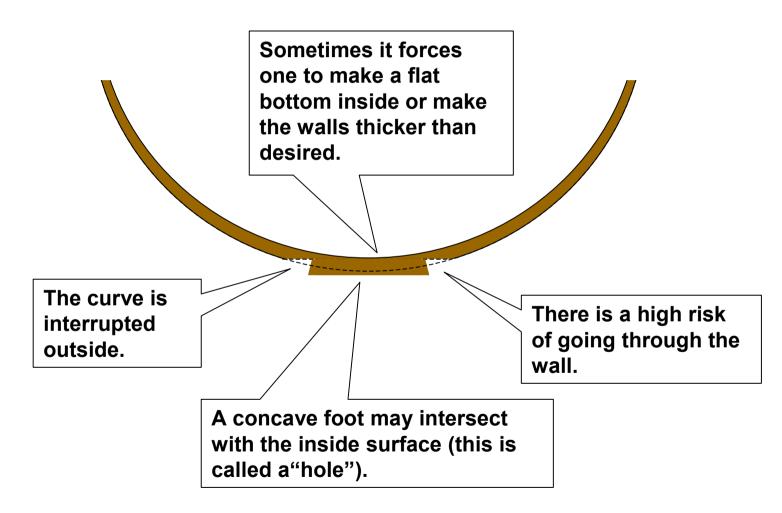
With the chuck removed:

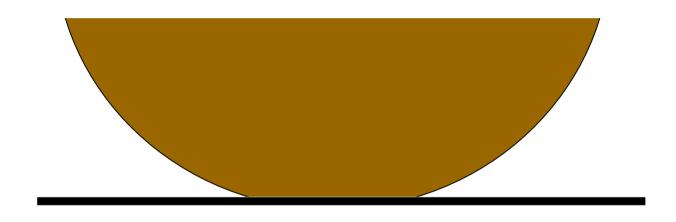


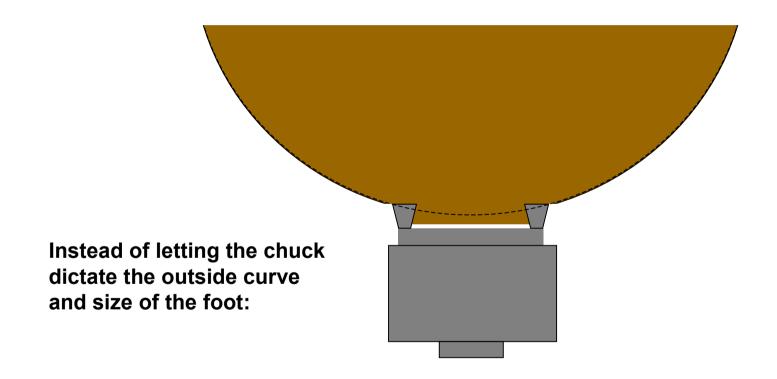
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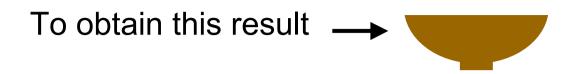


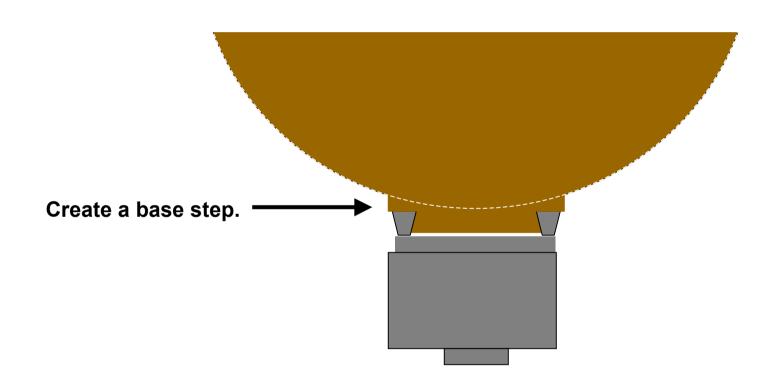
Potential Problems

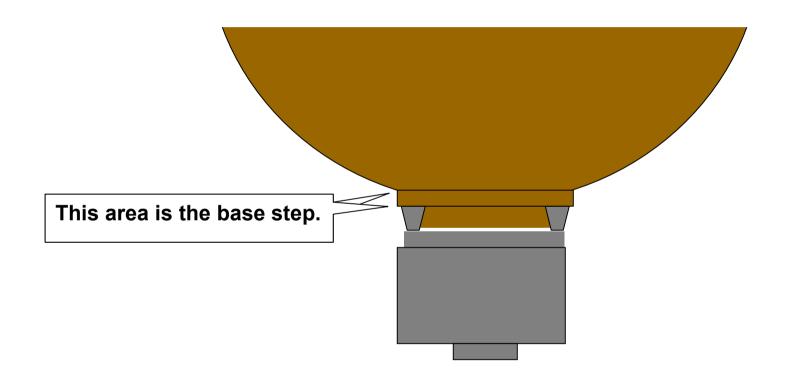


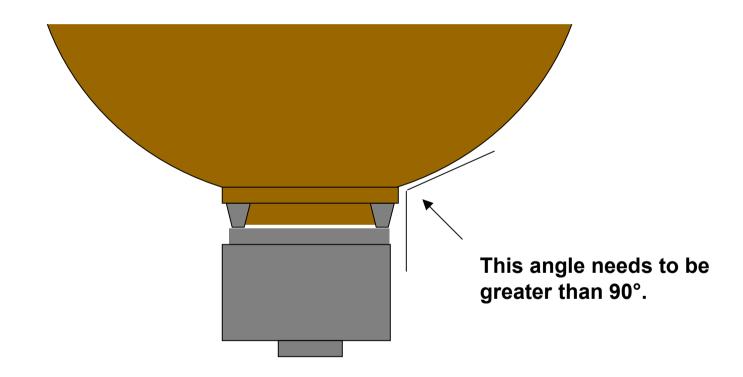


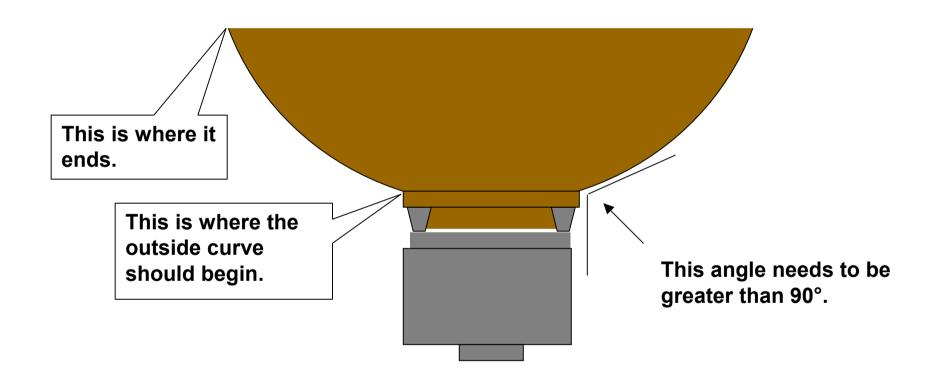


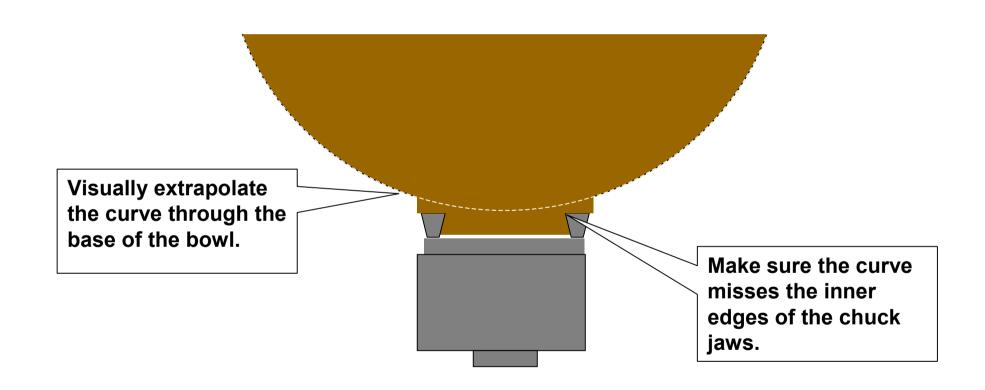


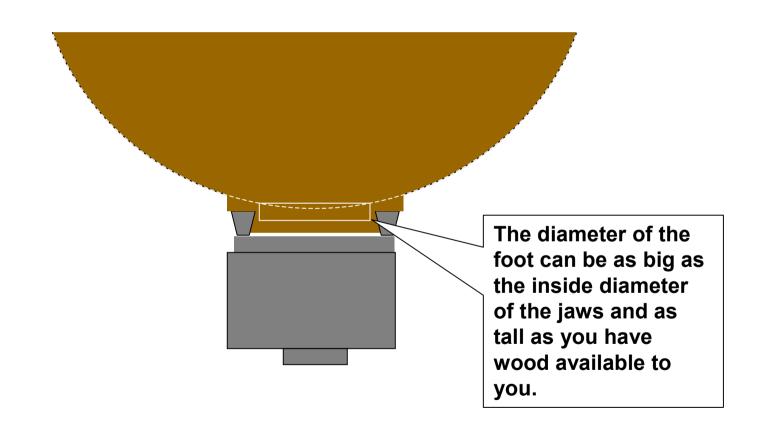


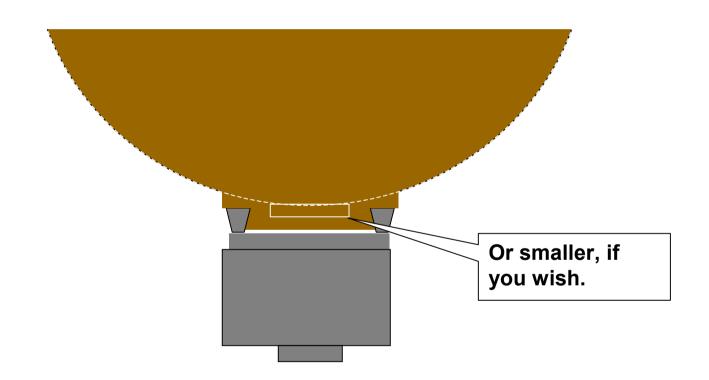


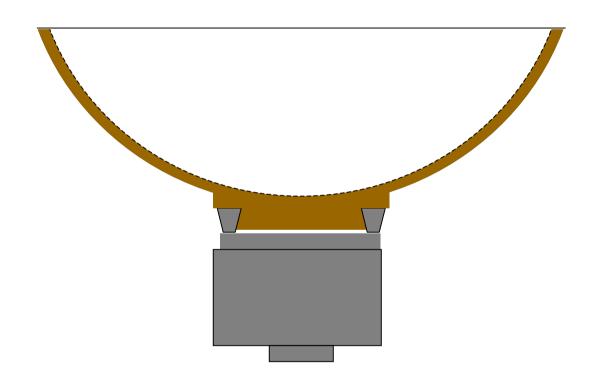












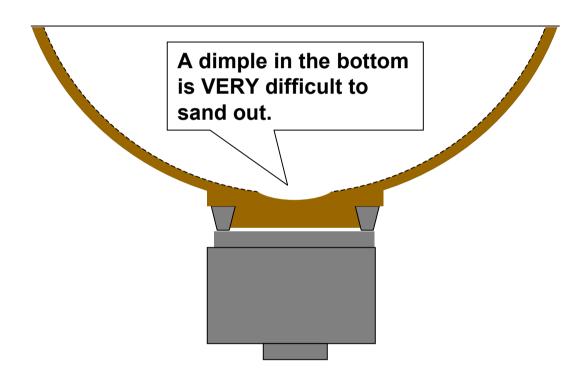
Gouge for the Inside Finishing Cut

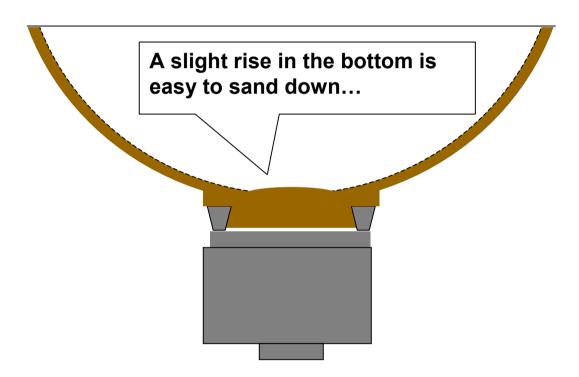
If you are unable to maintain bevel contact when using gouge with a 60° bevel angle, you may want to use a gouge with a steeper angle.

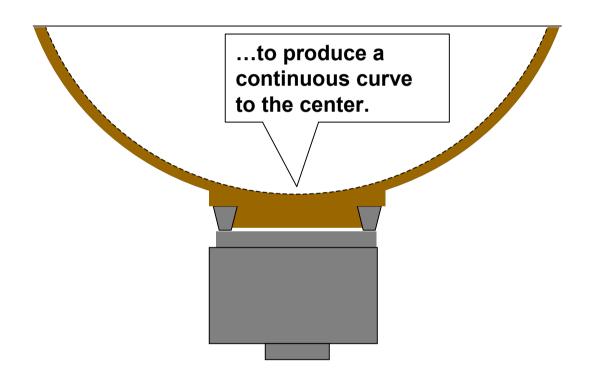
Primary bevel up to 85°

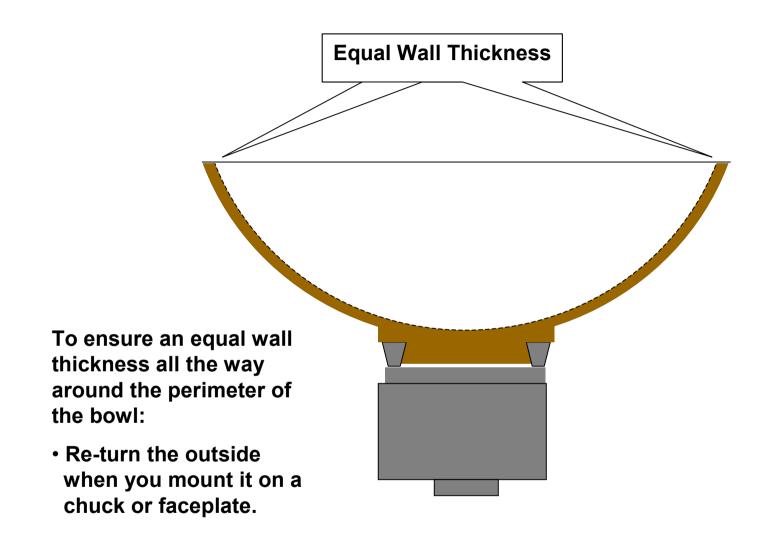
I usually use 70°

secondary relief bevel

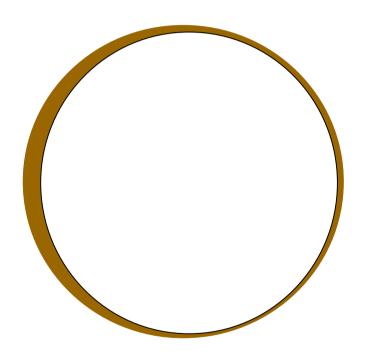


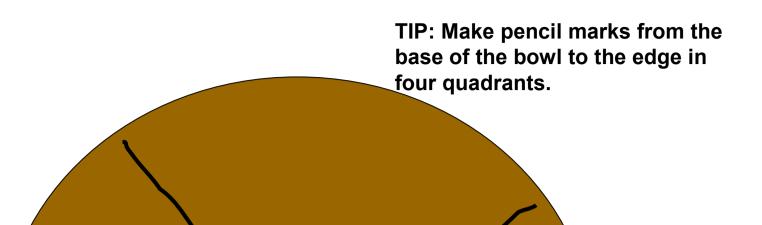




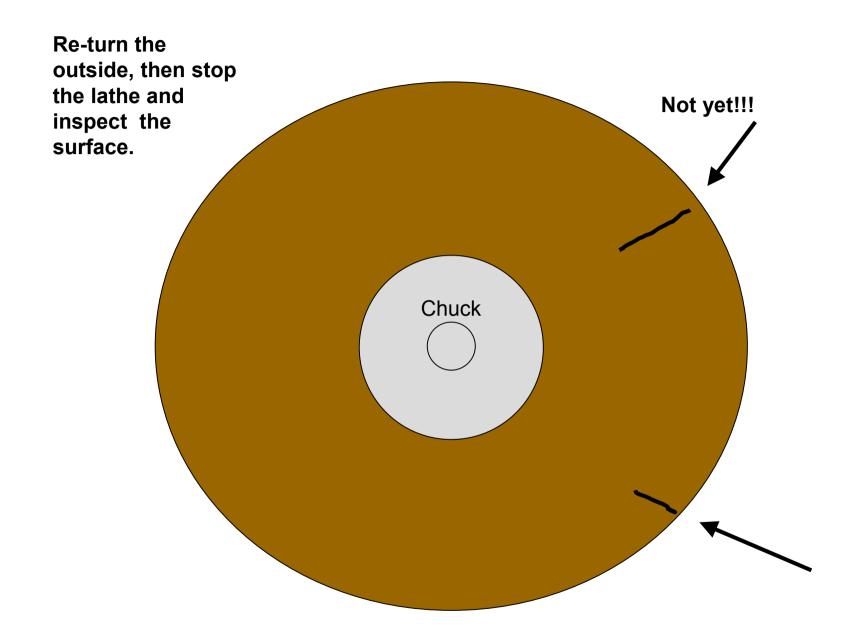


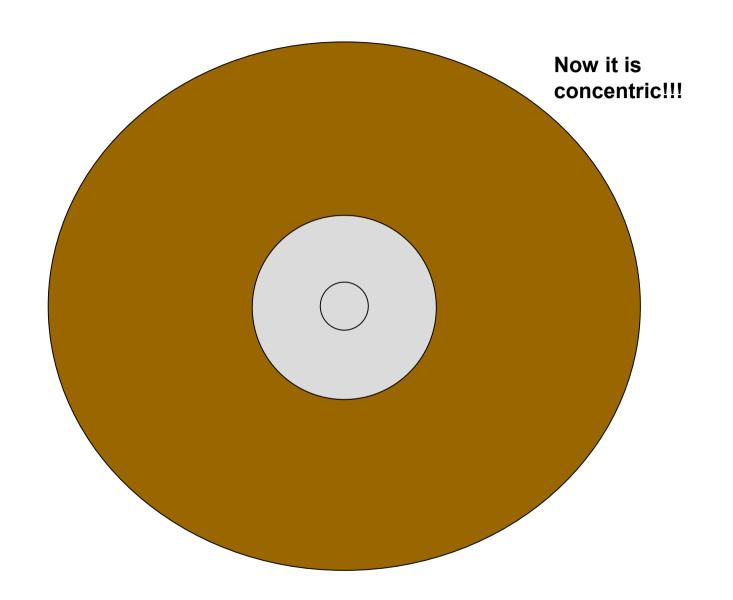
If you don't re-shape the blank before turning the inside, it is very likely that the outside and inside surfaces of the bowl will not be concentric!





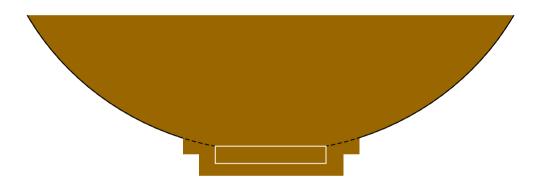
Chuck





Inside the bowl: Make the wall thickness consistent. Use a wire gauge or a caliper to measure the wall thickness. TIP: To increase accuracy, always measure perpendicularly across the wall.

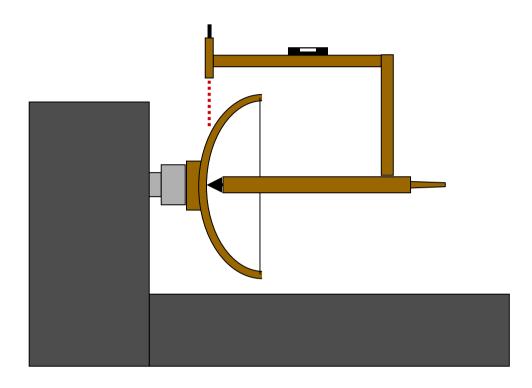
Final steps to complete the turning:



Jamb chuck or vacuum chuck the piece to facilitate:

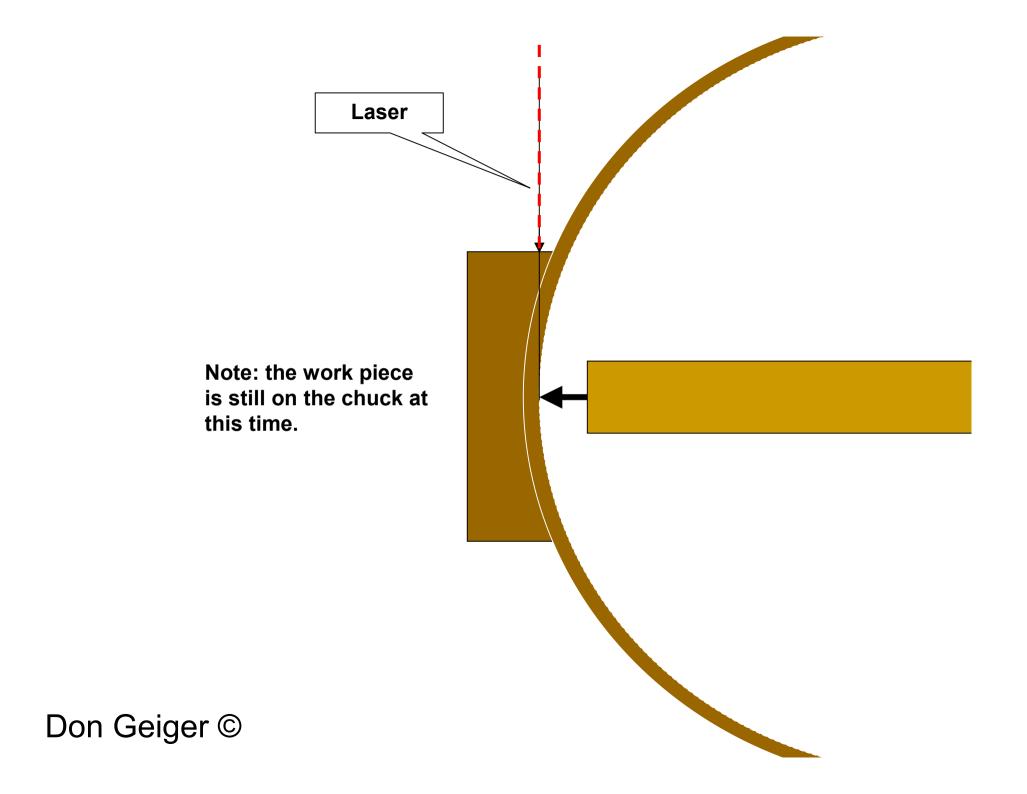
- The removal of the waste stock.
- Define the diameter of the foot.
- Extend the exterior curve to the outside diameter of the foot.
- Define the height of the foot.
- Create a concave foot.

Depth Finder



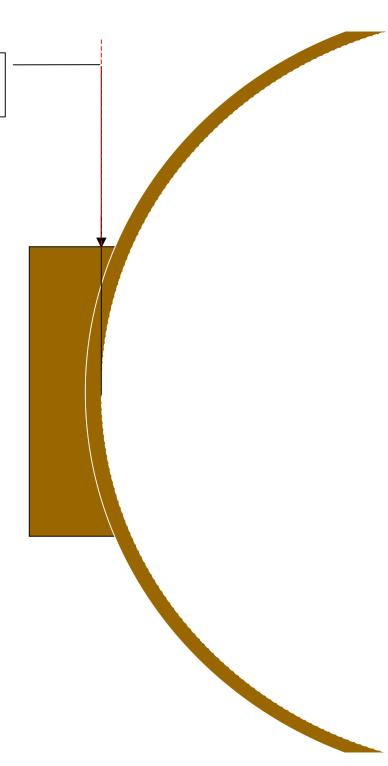
- Ensure the laser beam shines on the head of the screw.
- Move the depth finder into place.
- Maintain a level position.

Tip: To improve the accuracy of the measurement: place a piece of aluminum tape over the end of the laser pointer and puncture a small hole. This will reduce the size of the dot.



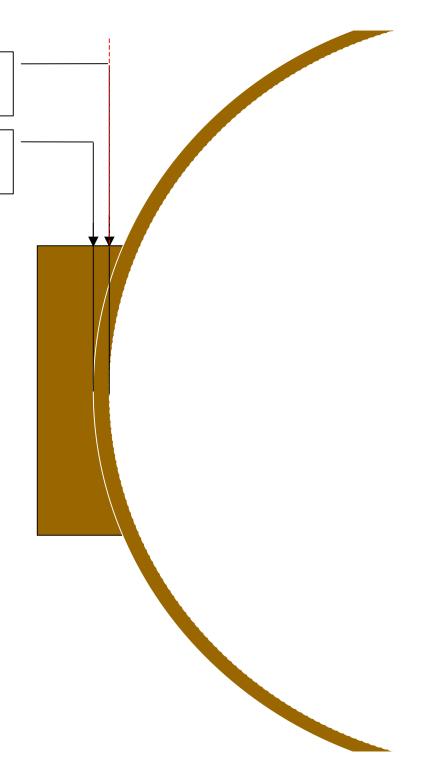
1. Mark the inside bottom depth on the outside where the laser is.

Note: the work piece is still on the chuck at this time.



- 1. Mark the inside bottom depth on the outside where the laser is.
- 2. Make a mark at a distance from mark #1 equal to the wall thickness.

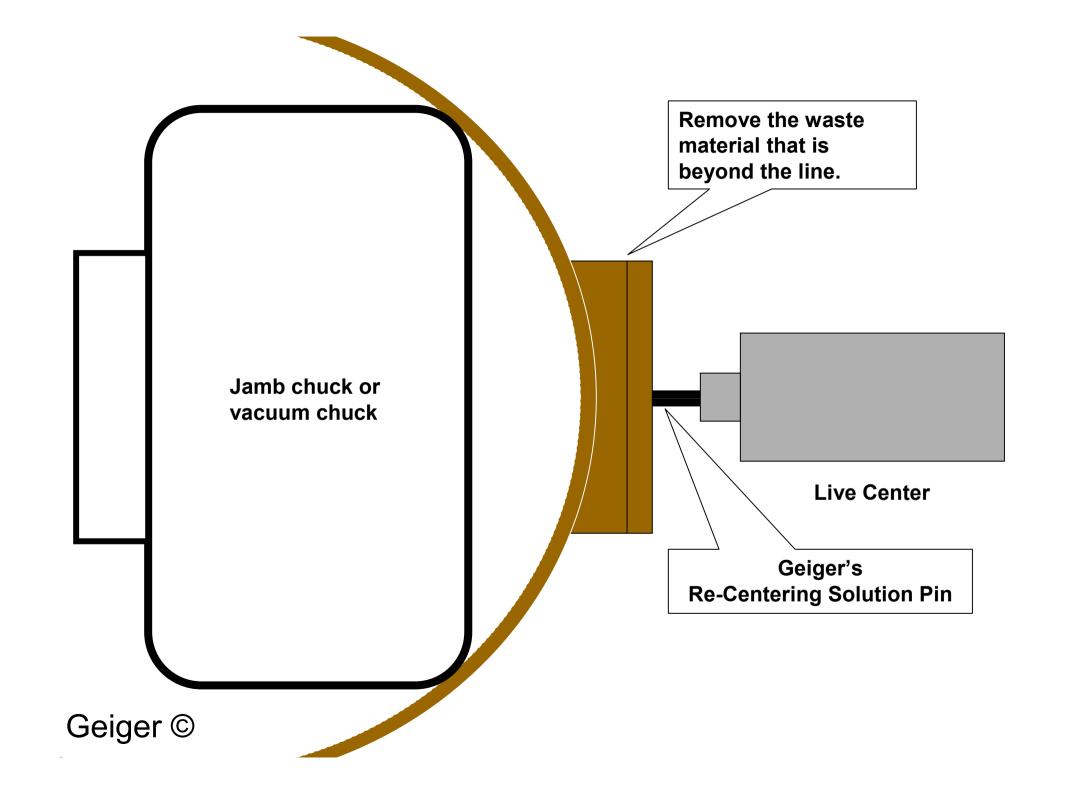
Note: the work piece is still on the chuck at this time.

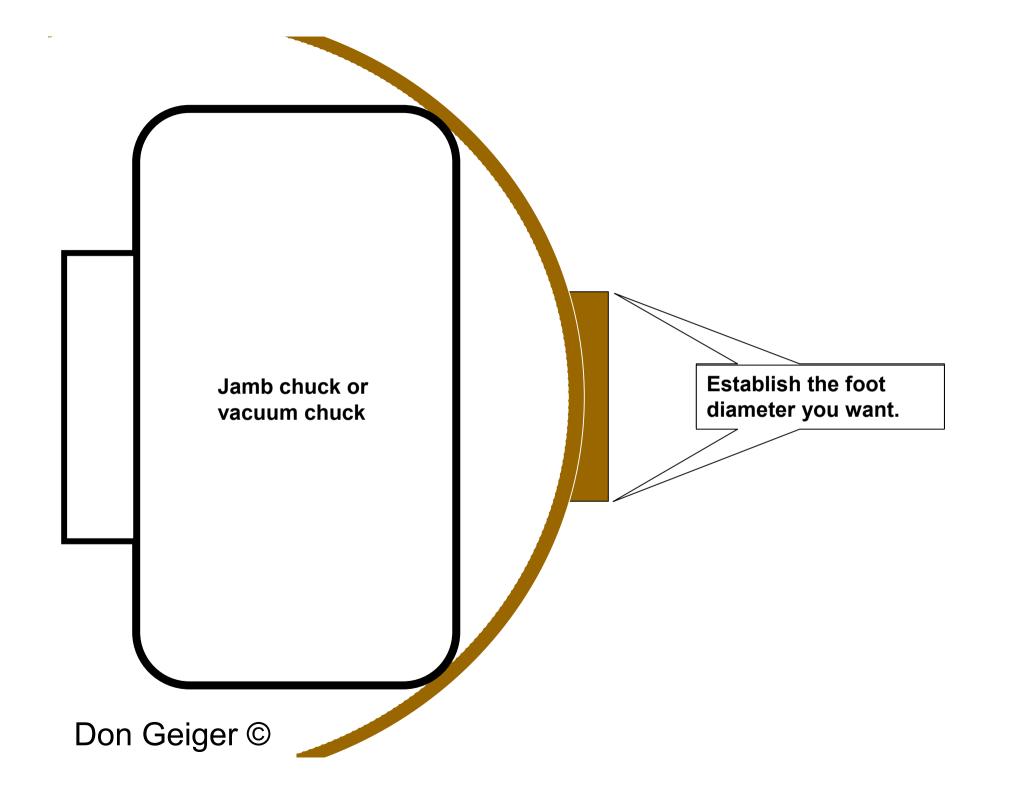


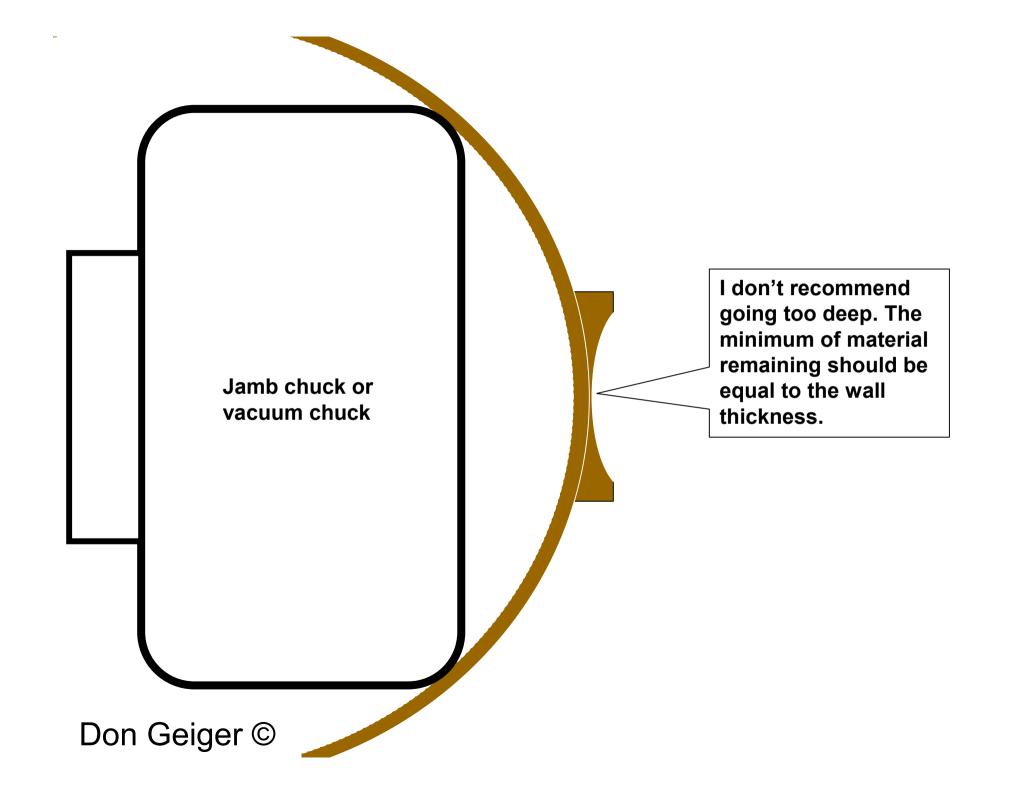
- 1. Mark the inside bottom depth on the outside where the laser is.
- 2. Make a mark at a distance from mark #1 equal to the wall thickness.
- 3. Mark the bottom of the planned foot. Mark a line at this point all the way around.

Note: the work piece is still on the chuck at this time.

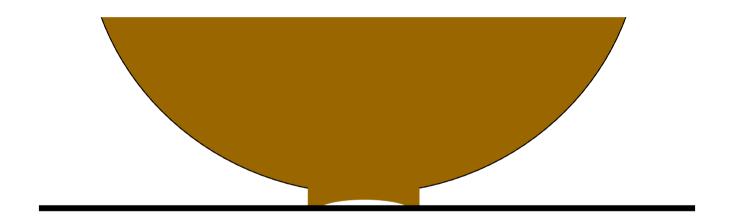
Everything to the left of this line is waste and will be sheared off.







The desired result.



Special Thanks 70:

The Bell Woodturners

and



My contact information:

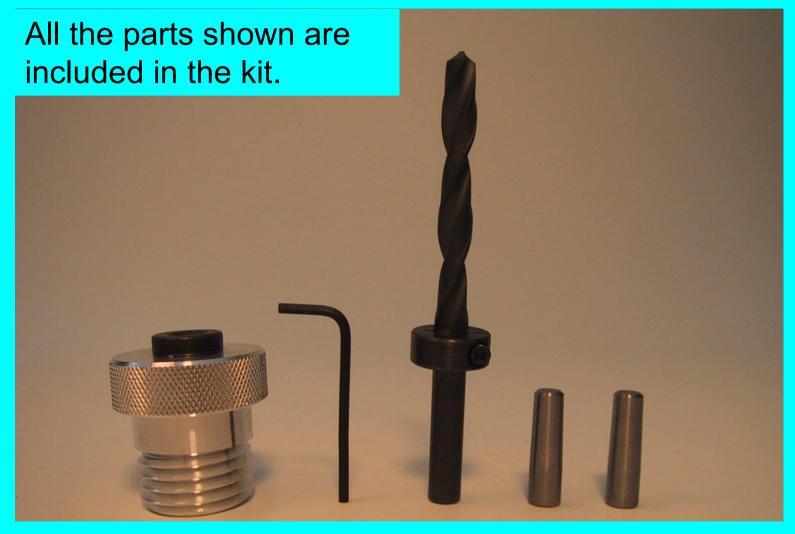
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