

Turning Triangles



SWAT
2017

Three sides from 3 centers

Five sides from 5 centers

Two sides from 2 centers

- Lamps
- Weed Pots
- Pedestals
- Napkin Rings
- Tool Handles
- Bowls
- Legs

- Boxes
- Pepper Mills
- Ornaments



Napkin Rings

- Matching set
 - Common theme
 - Individual identifier
 - Historically napkins were not laundered between meals

Hole 1.5 inches



Three Sided Layout

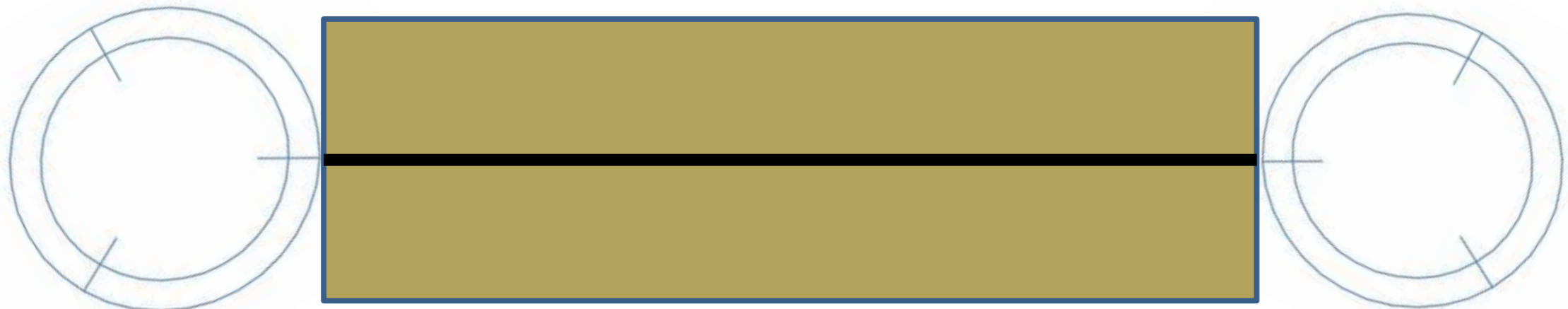
The goal is to have three centers directly opposite each other on the ends

- Turn spindle
- Mark corner lines
- Draw circle centered on each end
- Mark 3 centers on circle at corner lines

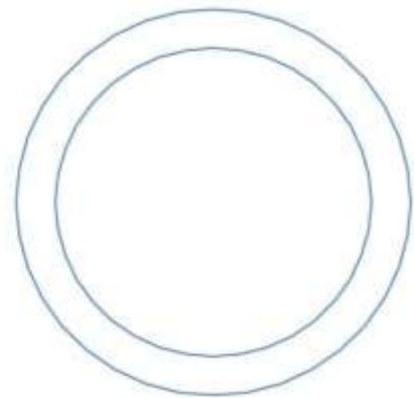
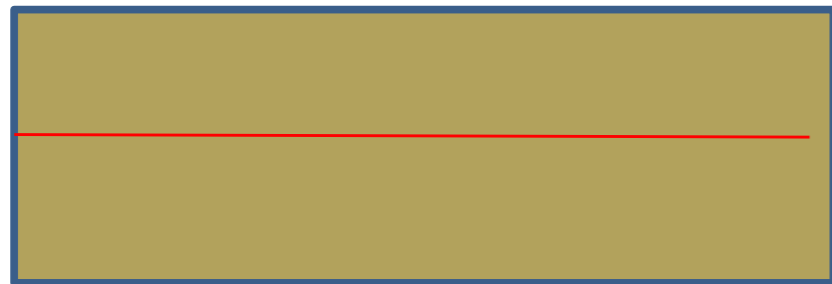
Align Grain to a Corner

A reference line (corner line) lines up the centers on each end.

Put a grain feature on a corner or
A face (opposite a corner)

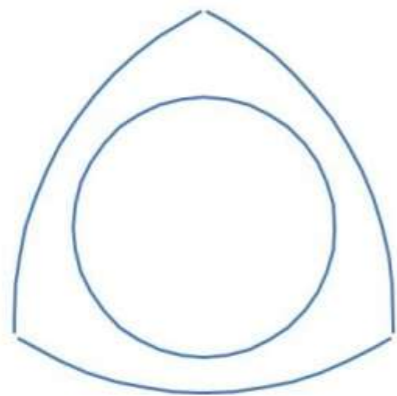
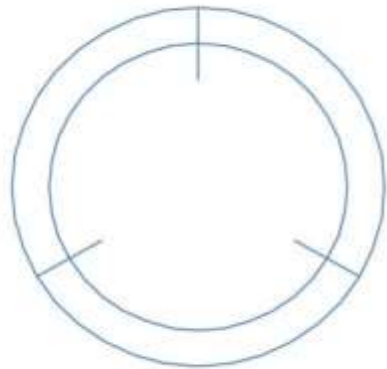


Three center layout



- Turn 2.5" diameter cylinder
- Use index wheel or trifold paper to make the other two corner lines
- Mark a circle 2" diameter on each end.

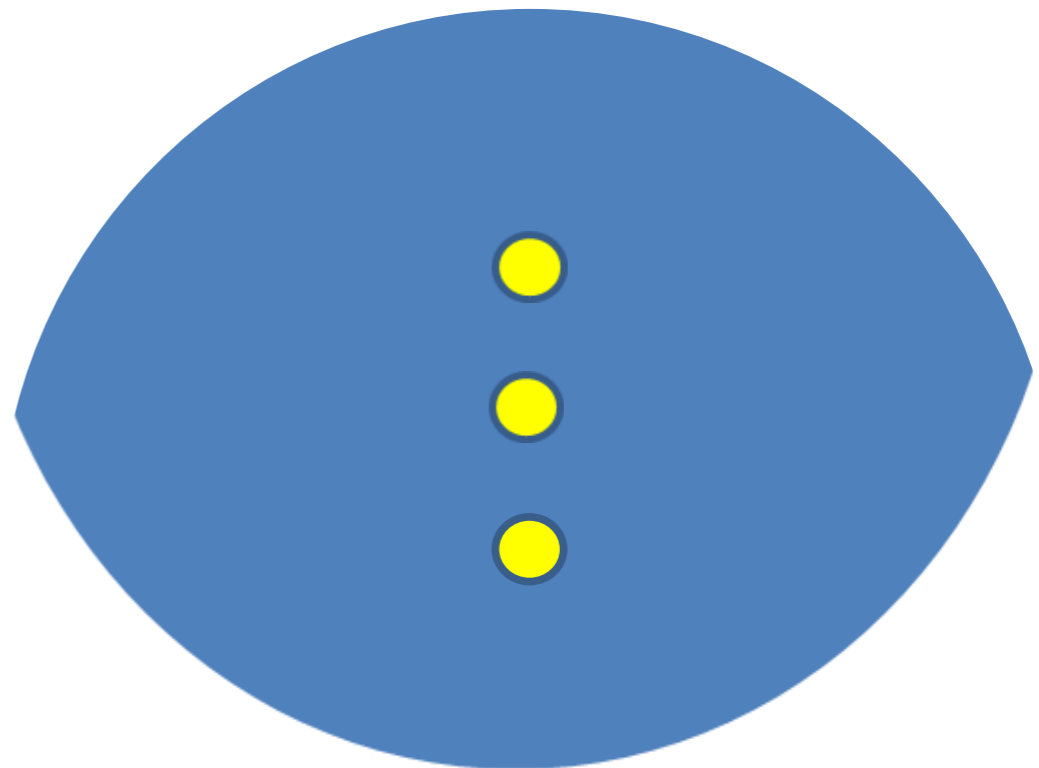
Napkin Ring Layout



- Use a straight edge from each corner line to the center of the cylinder to mark the three center points on each end.
- Using the cylinder center part in to less than 1.5 inches to define the napkin rings
- Using the 3 centers turn each face to the corner line. Be sure the faces meet at a sharp corner.
- Drill 1.5" hole

Two sided

- Turn cylinder 2.5"
- Mark two centers $\frac{1}{2}$ " to $\frac{3}{4}$ " from the original center





A cup center with point works well both for the drive and live center. Steb centers work well too. Set these centers in at least $\frac{1}{4}$ " from the edge.

The live center with the mini lathes has a large diameter cup and wide point. Set this center point in $\frac{3}{8}$ " from the edge.

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