Knurling a 1" dia .400 thick knob
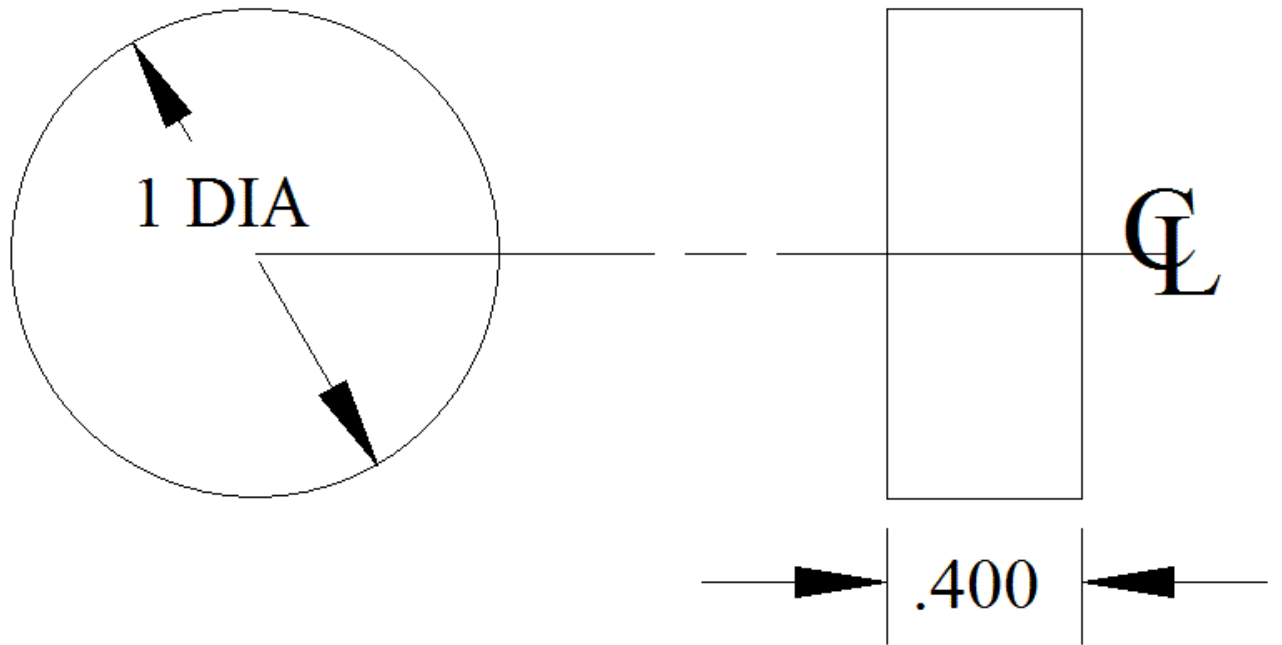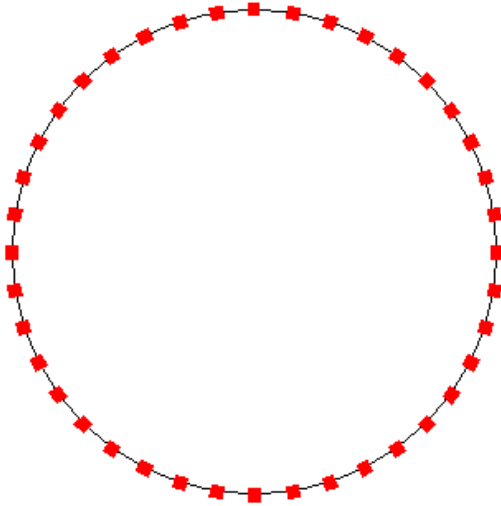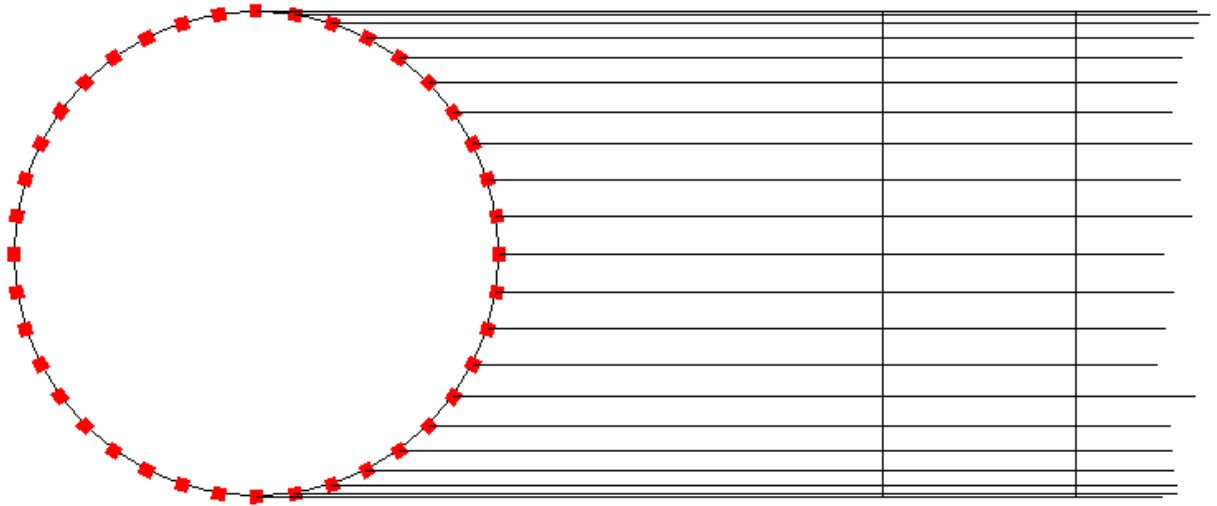
1 DIA

.400

Cₗ

1

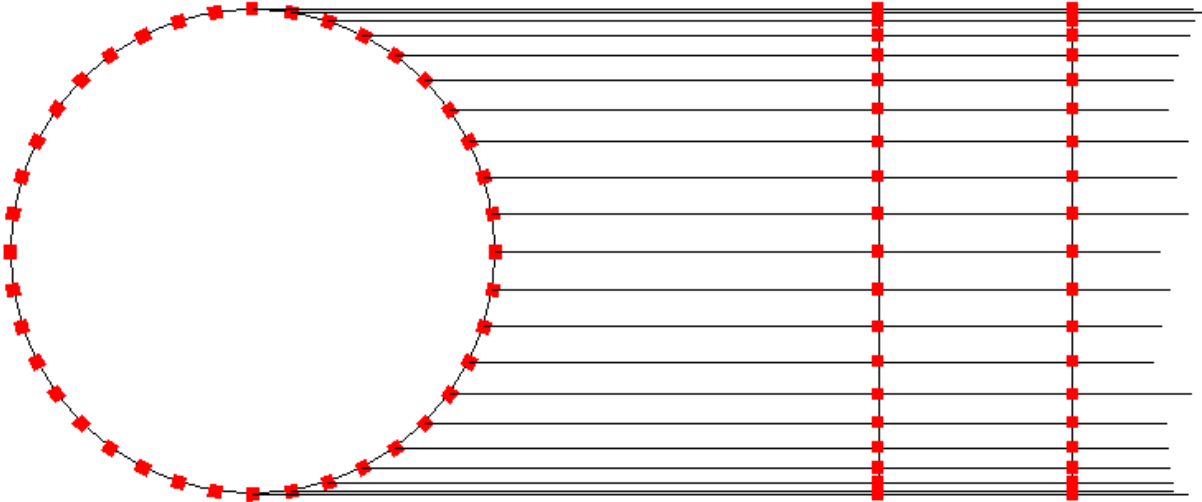# Place 40 points along the circumference of the circle
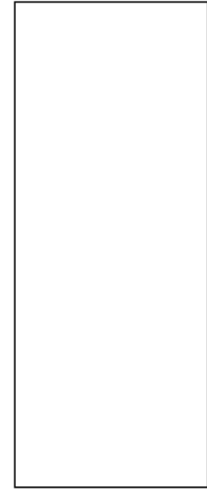
This is done by selecting "draw midpoints" from the POINTS tab and clicking on the circle, then typing "40" (enter)

2

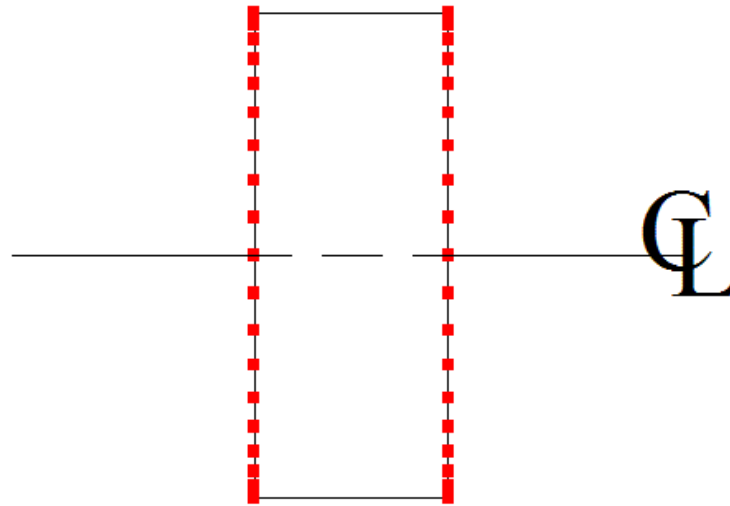# Now draw a horizontal line from each point bypassing the .400 thick "side view" on the right

3

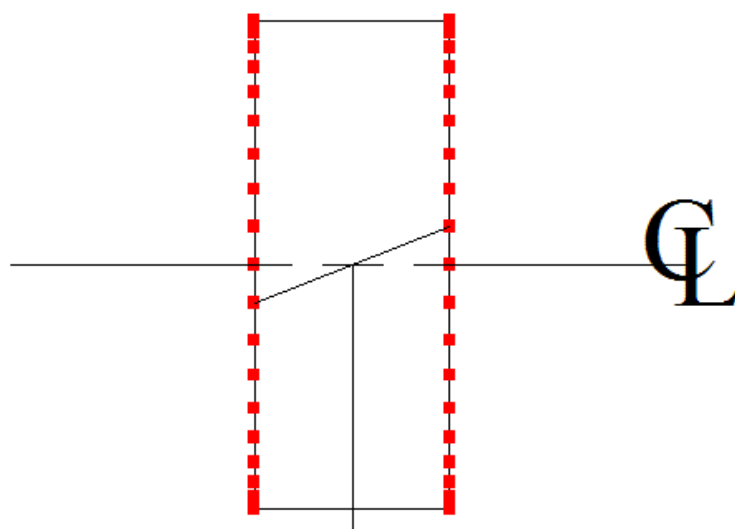# Place points at the intersection of the newly created lines

4

Delete the circle and the horizontal
lines leaving only the part drawing
and the newly created points
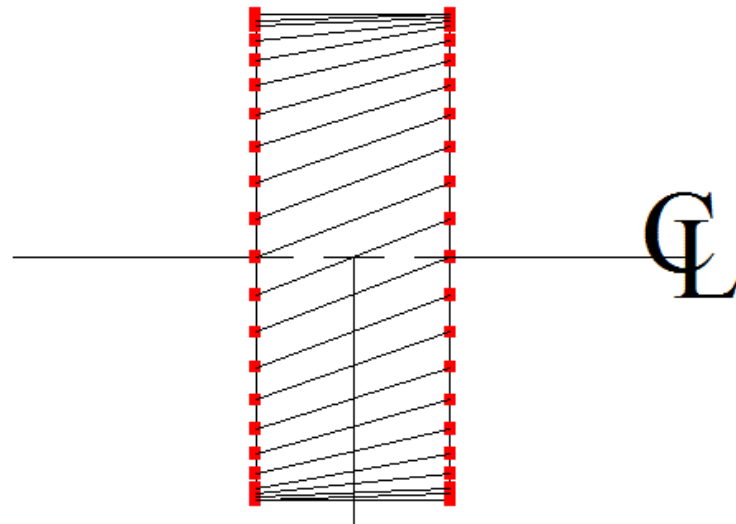

5   Place a centerline as shown

Place a line that crosses the center
but connect to the points closest to
the centerline (as shown)

C_L

Then draw a vertical line from the
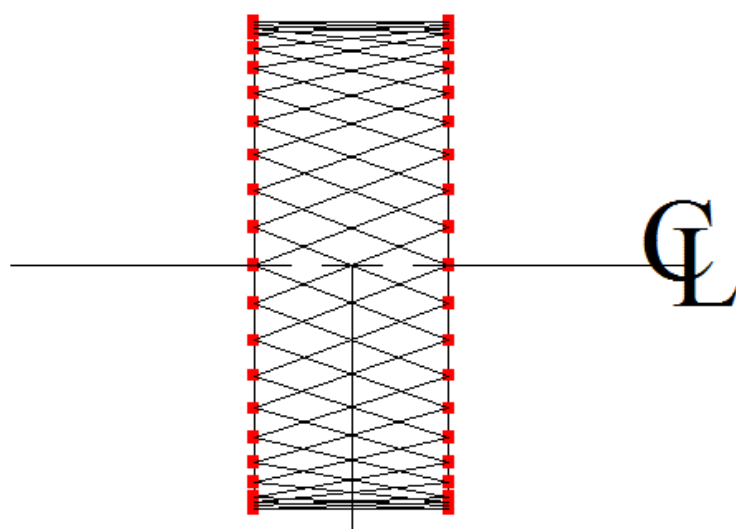center up or down with little regard to
the length

6

Continue placing lines using the
points directly above and below until
you run out of points

DO NOT use the parallel line feature
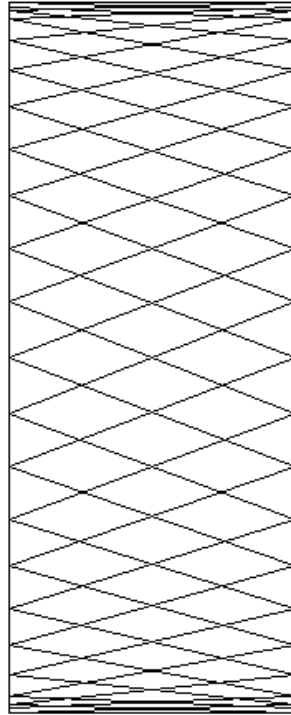to place these points

7

Select all diagonal lines then choose
the "Mirror Selected Objects"
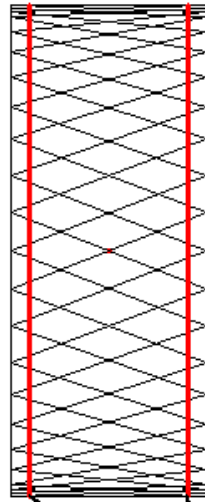feature within the select tab

Select COPY (it should turn red) then
use the center vertical line as your
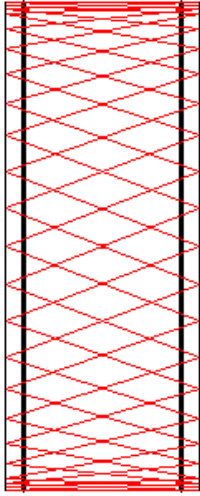mirror line.

8

Erase all center lines and points
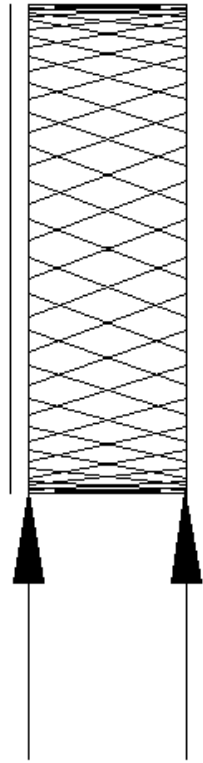
9

Creating a .040 45° chamfer on both sides

offset both lines
.040

10

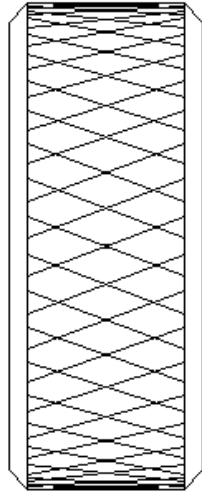Select every line except the vertical lines

11

Use "Slide endpoints of selected lines"
within the SELECT tab and click on one
vertical line then the other.

12

Within the EDIT tab select the "create a chamfer" function, then select the topmost horizontal line and one of the vertical lines. Deltacad will prompt you to insert an input, type .04

Do the same for each corner

13

Submitted by i44troll (Chris Smith)
3-24-2012