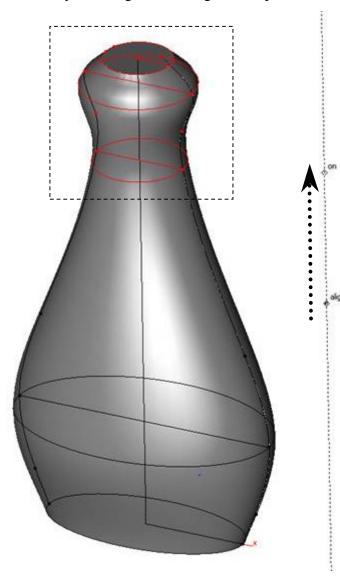


Basic Shape Editing

Making changes to the shape is a common and important task. Here we will modify the shape of the bottle by selecting and moving control points.



Drag a *Selection* box around all of the objects at the top portion of the bottle. Use the **Move** tool to move everything up the Z-axis. By using the **Move** tool, you can enter a specific numeric value for the move distance.

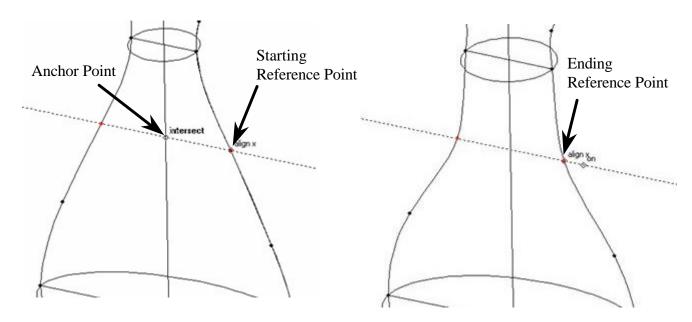
Use the **Add Control Points** tool to add a control point on each spline to gain more control over the shape at the neck region.



After adding the points, the *Link* icon in the lower left corner of the screen will turn red to show that links are broken in the file. Click on the icon and the links will be updated and the solid will regenerate based on the new splines.

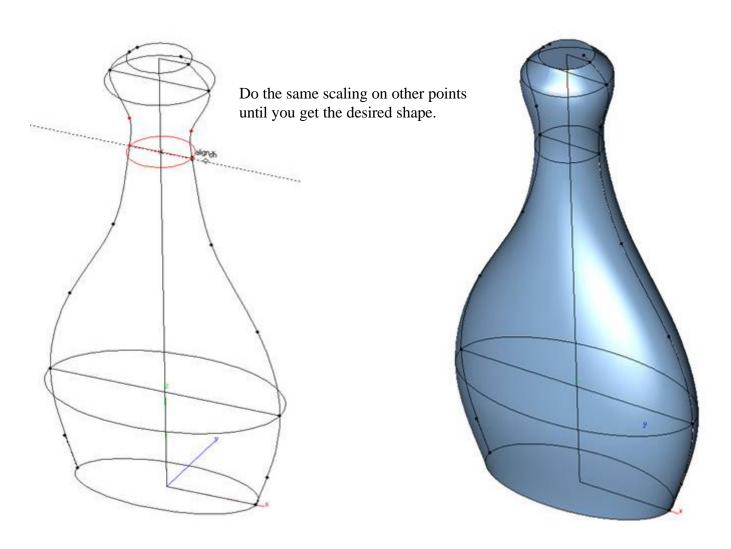
It's a good idea to keep an eye on this icon and make sure the links are always up to date.





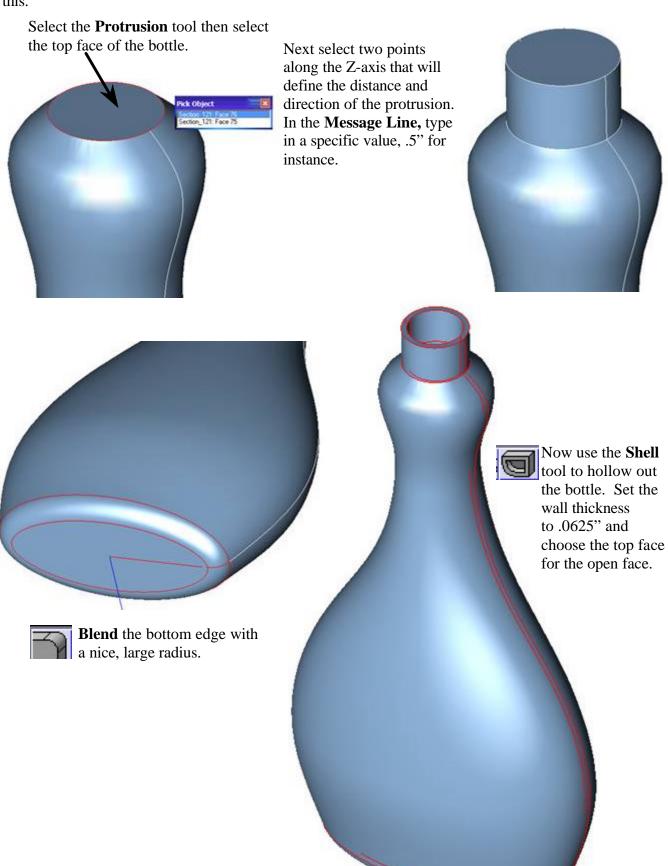
Select the two new points and then select the **Scale** tool. Scale the points down to make a tighter neck area. This has the effect of moving the points equally as if they were mirrored.

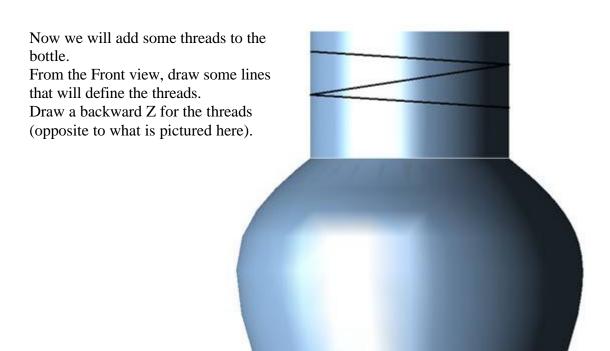
The key is to select an *anchor point* exactly halfway between the two points. That way the points will move equally about that centered point. The image above shows the anchor point as a point selected on the centerline.

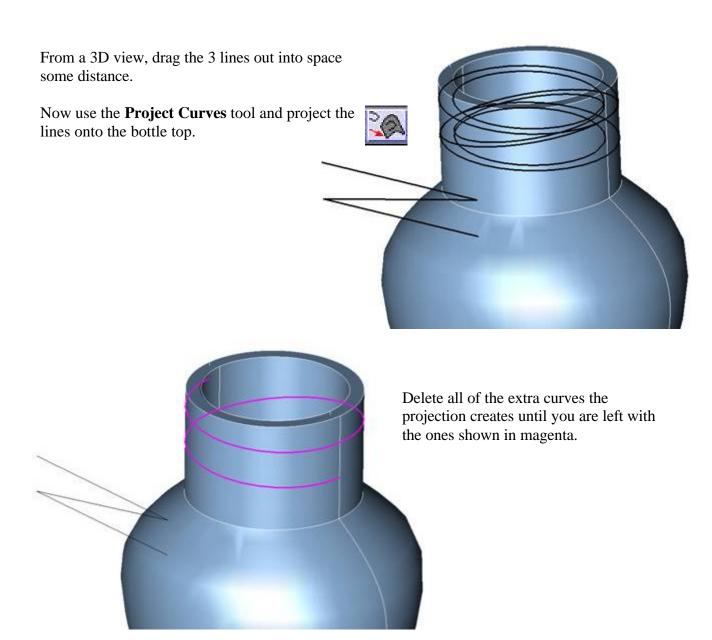


Now add a piece to the top of the bottle that will be the bottle mouth. Use the **Protrusion** tool for this.

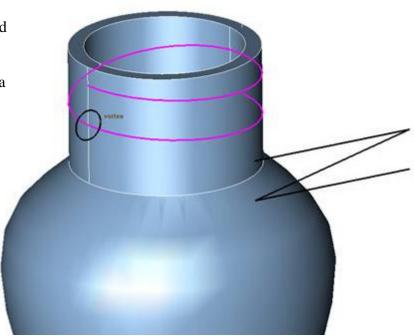




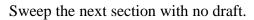


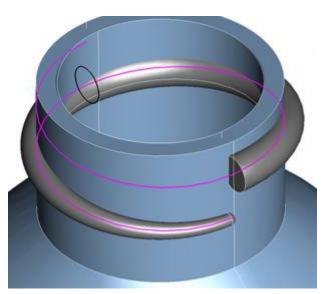


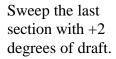
Now switch the work plane to Front and draw a circle at the start of one of the curves. Make the circle diameter small, .05". This will be the profile for a swept solid. This can be any closed shape desired. A circle is used here.

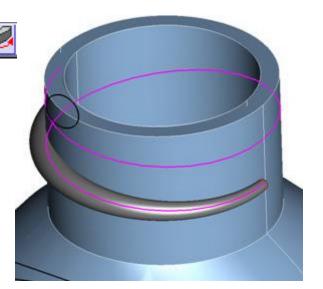


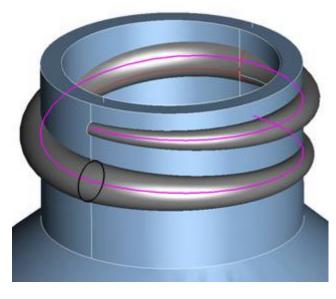
Select the **Solid Sweep Along Path** Tool and sweep the circle along the first curve. Add a –2-degree value in the **Draft Status Line** box.











Use the **Boolean Add** tool to add all of the pieces together.





