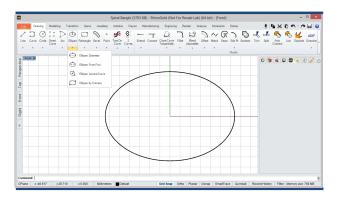


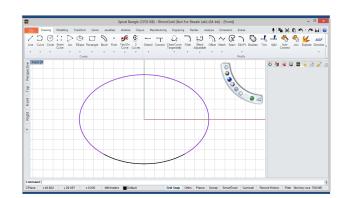
Spiral Bangle

In this tutorial we will try out some of the most useful commands in RhinoGold. Powerful tools such as Flow Along Curve, Length, Spiral and Extrude.

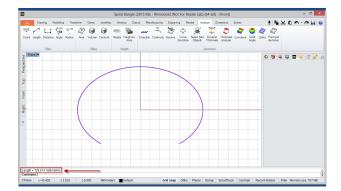




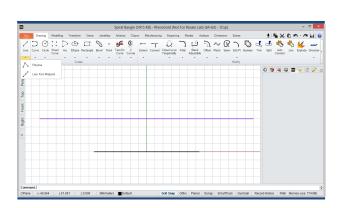
Ellipse Under the Drawing tab, with the Ellipse tool, create a curve in the front view to define the bangle measures, in this case 64mmx44mm.



Split Still under the Drawing tab with the Split tool we can divide the ellipse, as the above image shows. It's important to activate the Point option in the comand line and then delete the bottom curve.

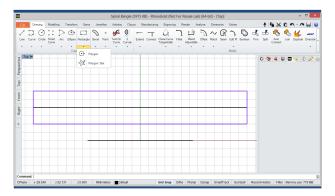


Under the Analyse tab use the Length tool to know the curve length, in this case it is 130mm. This measurment is important for the next step.



In the top view, under the Drawing tab with the Line tool to define a line with the same length as the previous step, which is 130mm.

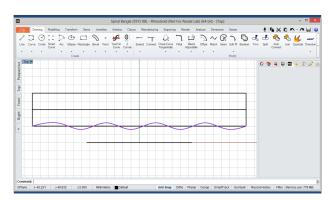
RhinoGold



Rectangle

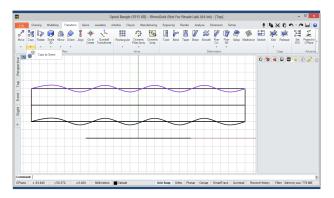
Now, still under the Drawing tab with the Rectangle tool in the top view define a rectangle

130mmx20mm.



Smart Curve

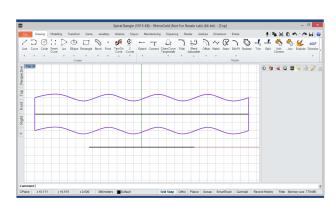
Then, again under the Drawing tab with the Smart Curve tool define the side shape of the bangle, in this case with a waves effect.



Copy

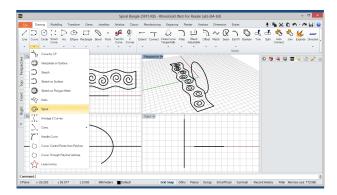
Now, under the Transform tab with the Copy tool to create another curve to the other side of the ban-

gle.

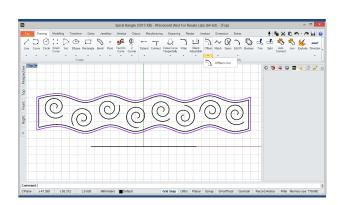


Explode / Auto Connect

Back to the Drawing tab with the Explode tool divide the rectangle, we can delete the sides and with the Auto Connect tool still in the Drawing tab join all the curves.



Now, it's time to define spirals along the bangle, for this, use the Spiral tool under the Drawing tab with in the top view. It's important to use the Flat option in the command line.



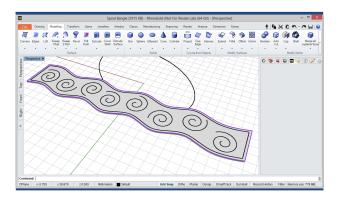
Offset

10

Then, we can create another curve outside the outside bracelet curve, shown in the image above.

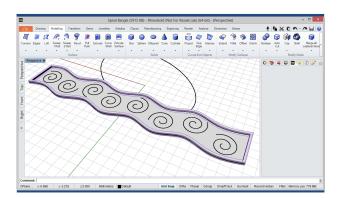
To do this, use the Offset tool under the Drawing tab, in this case is with a 1.2mm distance from the original.

Rhino Gold



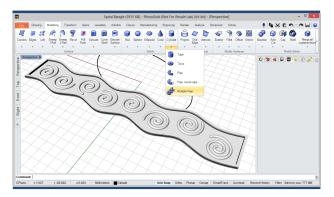
Extrude

Under the Modeling tab with the Extrude tool define the thickness of the bangle. Select the inside curve and in this case extrude 1mm towards the bottom direction.



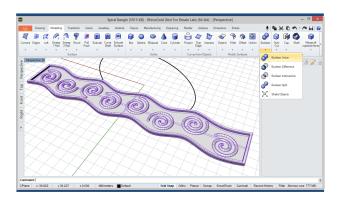
Extrude

Then repeat the same process, under the Modeling tab with the Extrude tool to define the thickness of the bangle side section, in this case the extrusion distance is 1mm for both sides.



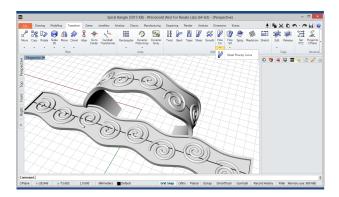
Multiple Pipe

13 Now, once again under the Modelling tab with the Multiple Pipe tool to define the pipes along the spirals. In this case is with a 1.2mm diameter.



Boolean Union

Still under the Modeling tab with the Boolean Union tool unite all the parts into a single object.



It's now time to apply the bangle along the original curve. Use the Flow Crv tool under the Transform

tab.



Variable Fillet

Lastly, under the Modeling tab with the Variable Fillet tool round the edges, in this case the fillet radius is 0.4mm.