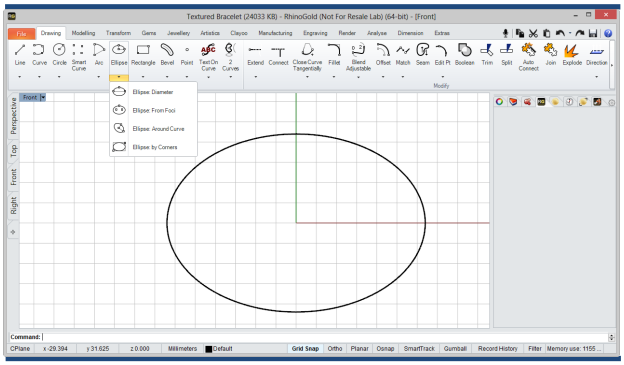
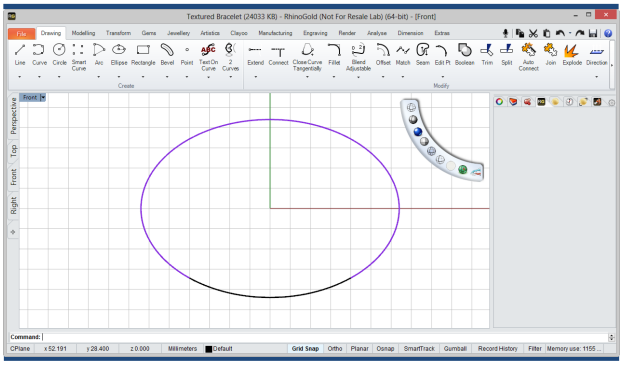
Textured Bracelet

In this tutorial we will try out some of the most useful commands in RhinoGold. Powerful tools such as Flow Along Surface, Length, Texture 3D and Bend.



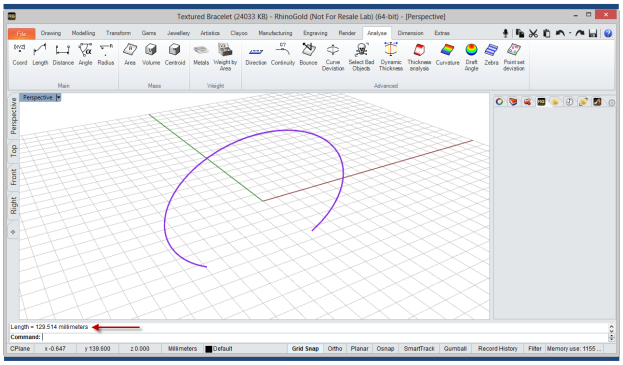
1 Ellipse

Under the Drawing tab, with the Ellipse tool, we can define a curve in the front view to create the bracelet, in this case making it 64mmx44mm.



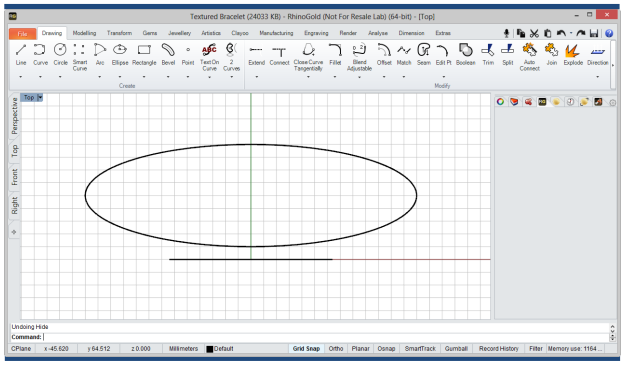
2 Split

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



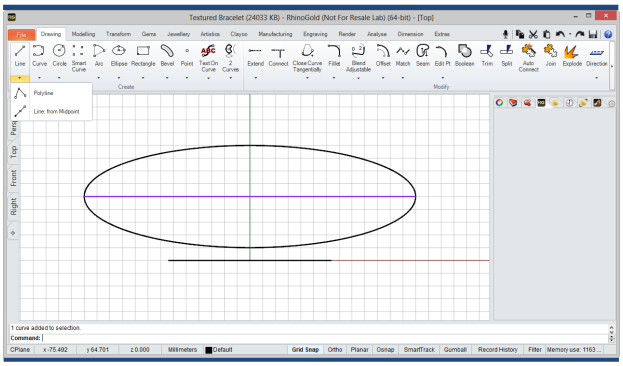
3 Length

Now, under the Analyse tab with the Length tool find out the curve measurement, in this case it is 130mm. This measurement is important for the next steps.



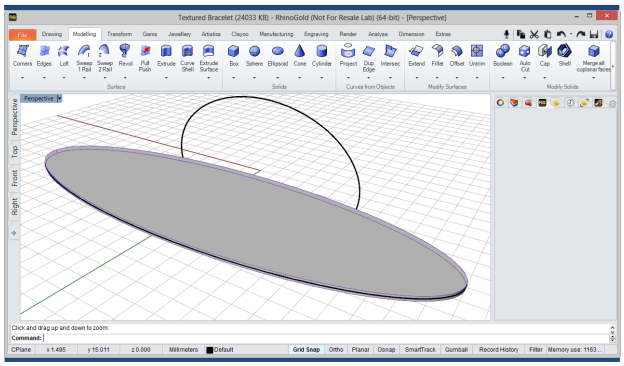
4 Ellipse

Then, in the top view, under the Drawing tab with the Ellipse tool to create the bracelet shape, in this case the ellipse will be 130mmx40mm.



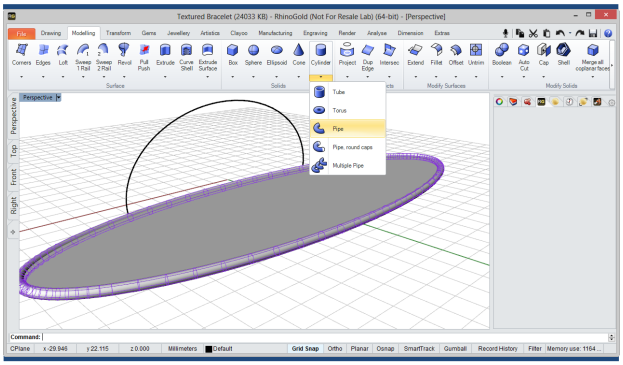
5 Line

Now, still under the Drawing tab with the Line tool in the top view create a curve that is 130mm long. This will be used in a few steps time.



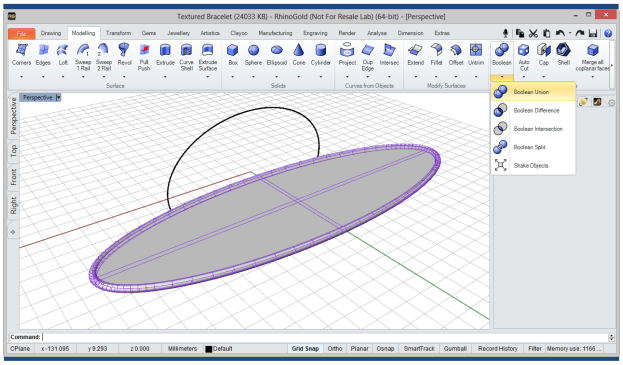
6 Extrude

Under the Modeling tab with the Extrude tool create the thickness of the bracelet, in this case we should have an extrusion distance of 0.6mm on both sides.



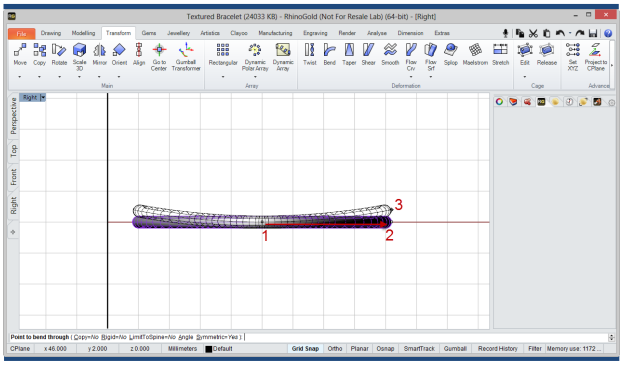
7 Pipe

Now, once again under the Modeling tab with the Pipe tool create a round lip along the bracelet edge, in this case with a 2mm diameter.



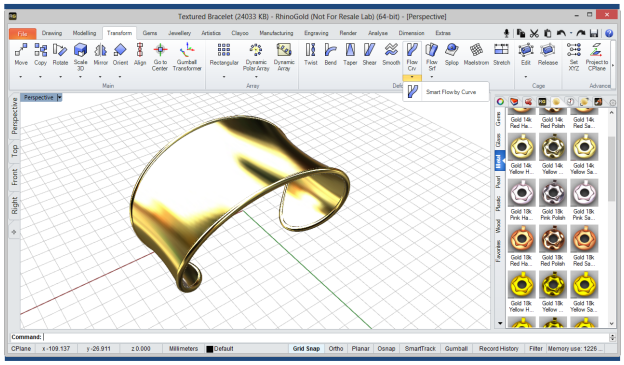
8 Boolean Union

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



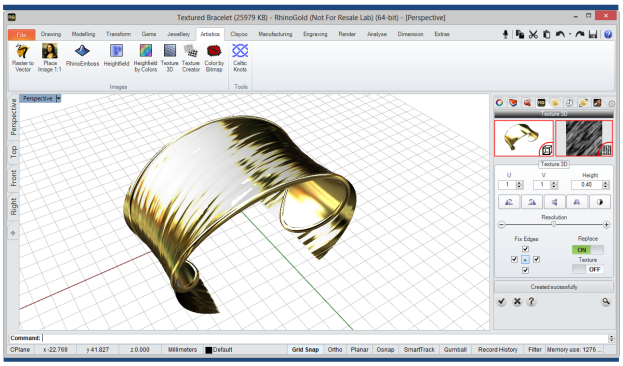
9 Bend

It's now time to define a bend in the bracelet, for this, use the bend tool under the Transform tab in the right view as shown in the image above.



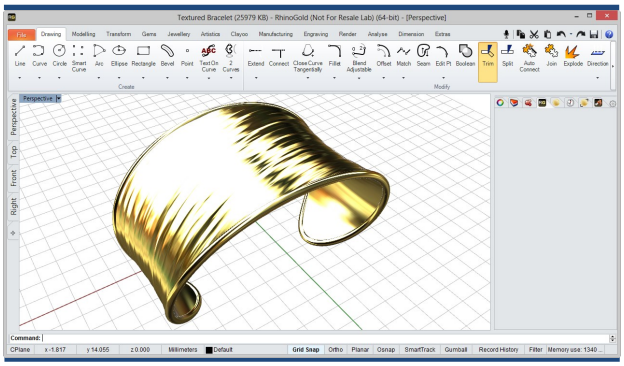
10 Flow Crv

We can place the bracelet along the curve created in the first steps by using the Flow Crv tool under the Transform tab making sure to define all of the parameters.



11 Texture 3D

In this step we will apply a texture onto the outside surface of the bracelet. Use the Texture 3D tool under the Artistics tab and define the parameters.



12 Trim / Join

Finally, under the Drawing tab with the Trim tool cut the excess texture and use the Join tool to unite both surfaces to create a closed solid.