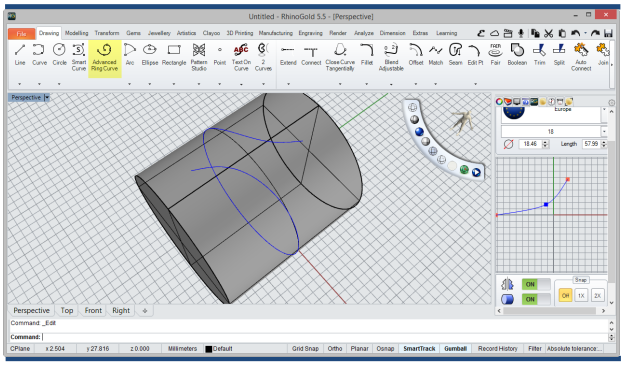
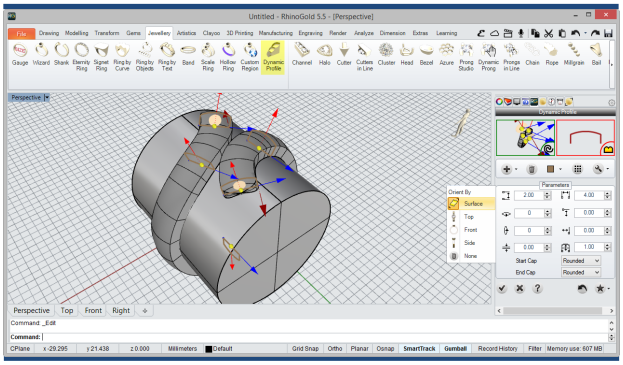
Wheat Ring

In this tutorial we'll try some of the more useful commands in RhinoGold. Powerful tools like Advanced Ring Curve, Dynamic Profile, Smart Curve, Smash and Dynamic Flow Surface.



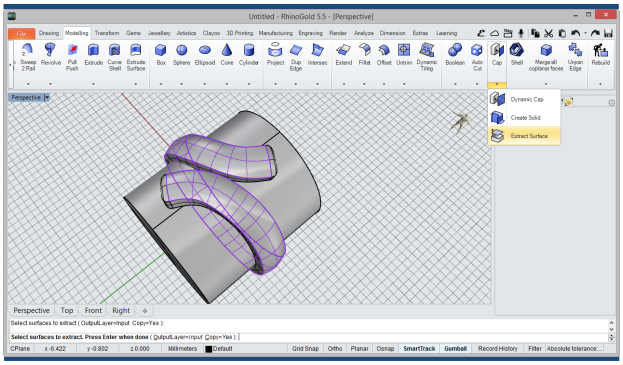
1 Advanced Ring Curve

In the Drawing tab, with the Advanced Ring Curve tool, we'll define a curve of 18 size European ring, from the perspective view, activate the option of display cylinder.



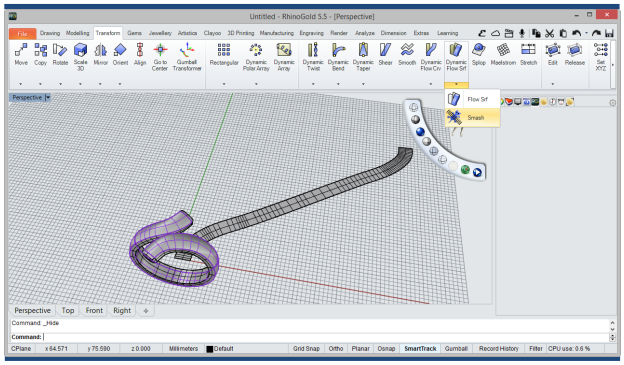
2 Dynamic Profile

Now, in the Jewellery tab, we'll apply the Dynamic Profile on the curve tool and define a profile of 2 mm x 4 mm, activate the option of Orient by Surface.



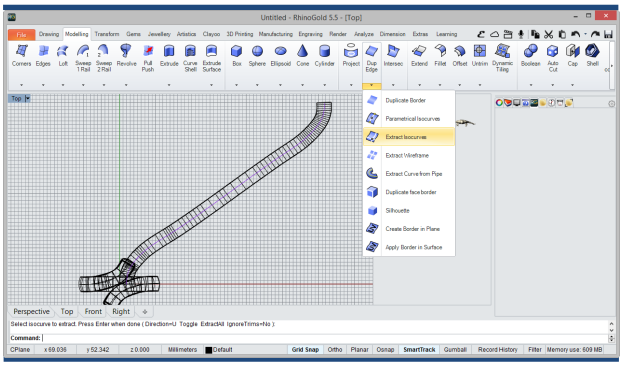
3 Extract Surface

Then, we'll select the Extract Surface tool, in the Modelling tab and apply the Dynamic Profile. Activate the Copy option in the Command Line.



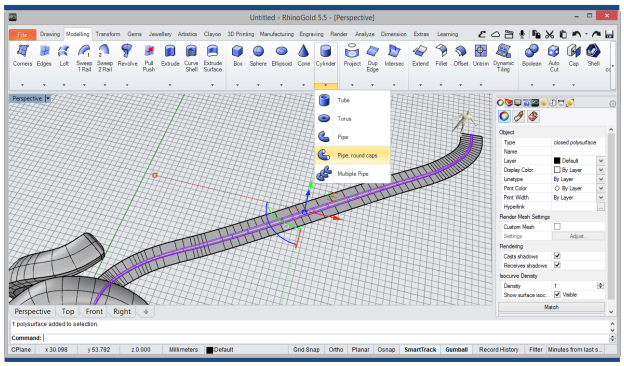
4 Smash

In this step, we'll apply the Smash tool on the extracted surface.



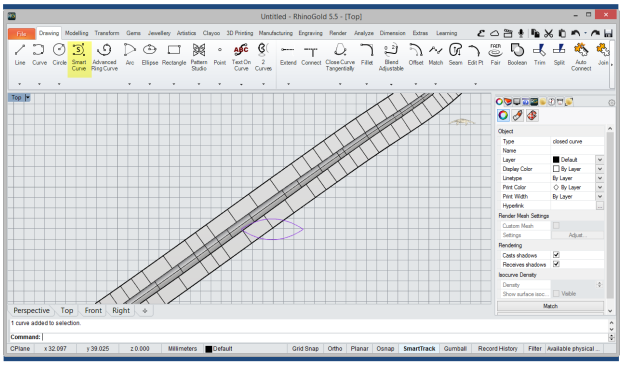
5 Extract Isocurves

Then, we'll select the Extract Isocurves tool in the Modelling tab and apply it to the smashed surface.



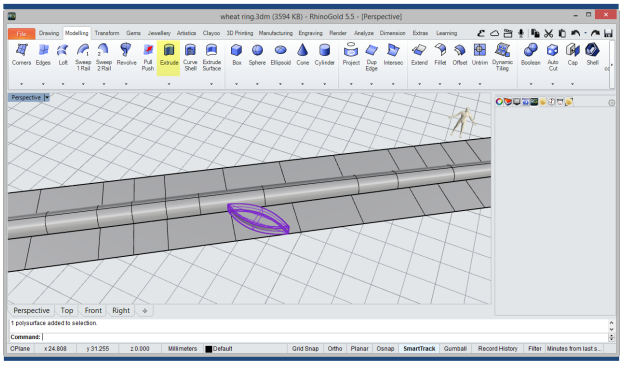
6 Pipe Round Caps

Now, following in the Modelling tab apply the Pipe Round Caps tool to the curve extracted earlier. We define one end of 0.5mm and the other of 1mm.



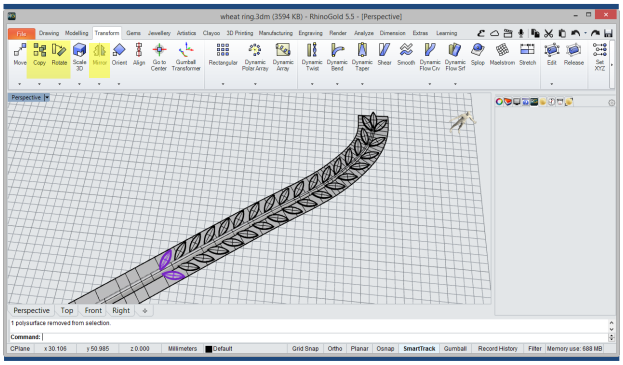
7 Smart Curve

In this step we'll select the Smart Curve tool in the Drawing tab and trace a curve similar to the image.



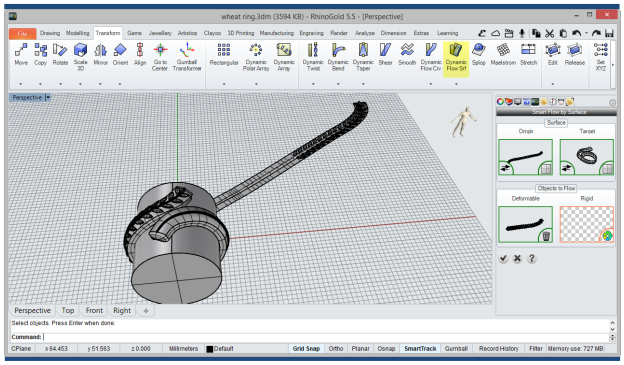
8 Extrude

Now, we'll apply an Extrusion of 1mm on the curve using the Extrude tool within the Modelling tab.



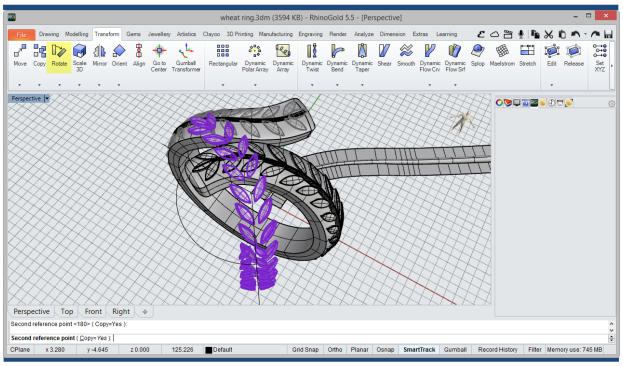
9 Mirror / Copy / Rotate

Then, we'll apply a Myrror on the extruded object and will copy the two objects several times along the Surface, helping us of the Copy and Rotate tolos.



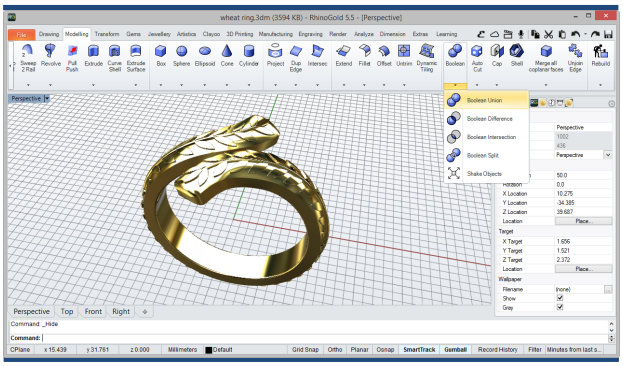
10 Dynamic Flow Surface

Now, we'll select the Dynamic Flow Surface tool, in the Transform tab and apply it between the flat surface with the pipe and the extruded objects with the dynamic profile.



11 Rotate

Then, we'll select the Rotate tool, with the copy option activated and define a copy of extruded objects on the opposite side of the Dynamic Profile.



12 Boolean Union

Finally, we'll apply a Boolean Union between all solids to unify the piece.