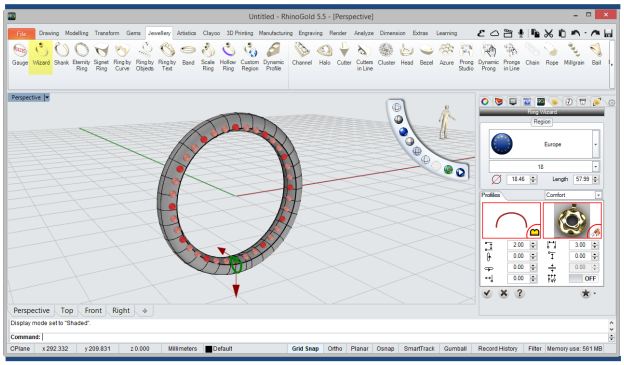
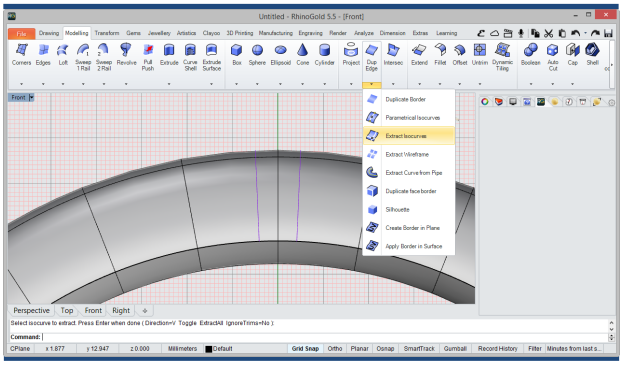
Bamboo Wedding Ring

In this tutorial we'll try some of the more useful commands in RhinoGold. Powerful tools such as Smart Curve, Ring Wizard , Gems by Curve, Pipe, Extract Isocurves and Dynamic Polar Array.



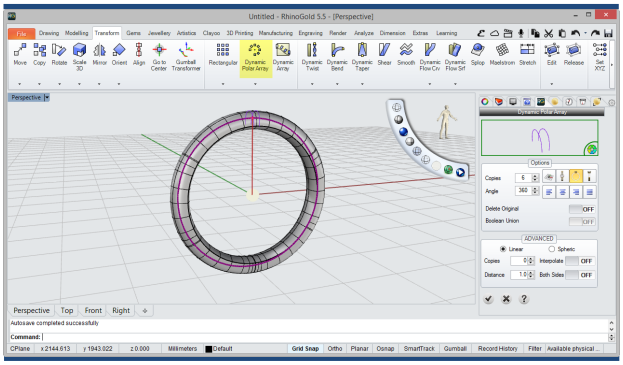
1 Ring Wizard

First, we'll go to the Jewellery tab and select the Ring Wizard tool and define a ring of 2.00 x 2.00.



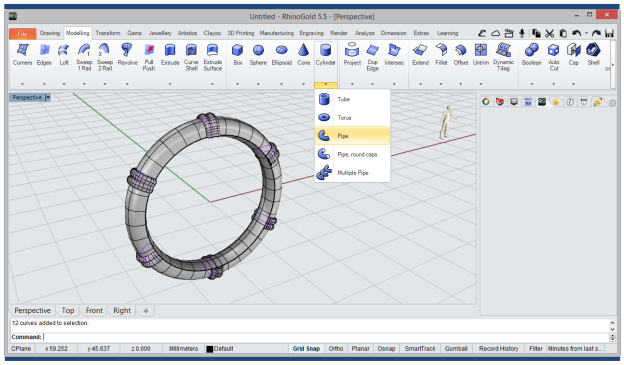
2 Extract Isocurves

Then, we'll extract the two central curves of the top with the Extract Isocurves tool within the Duplicate Edge submenu, at the Modelling tab.



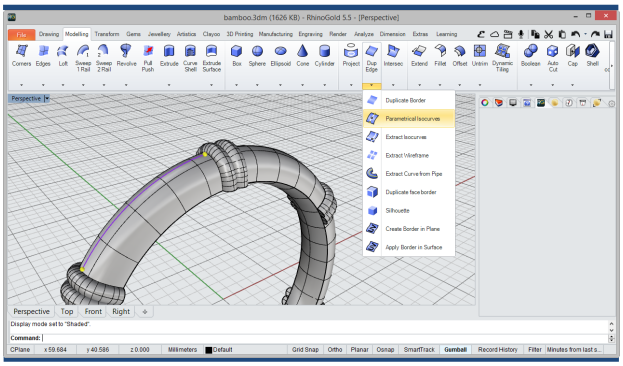
3 Dynamic Polar Array

Now, we'll generate 5 copies of the extracted curves previously, using the Dynamic Polar Array tool.



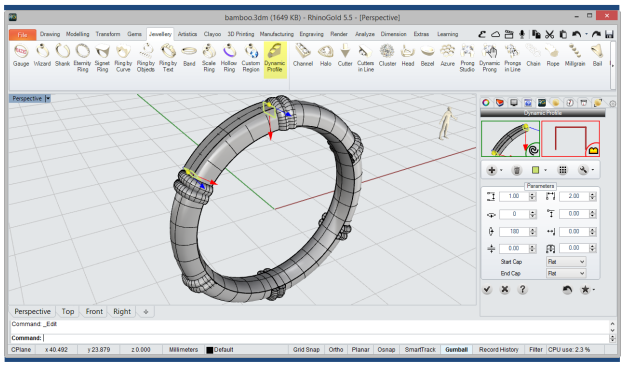
4 Pipe

In this step, we'll select the Pipe tool and apply it to the Array curves, with the option of caps on. We'll define solids of 1mm.



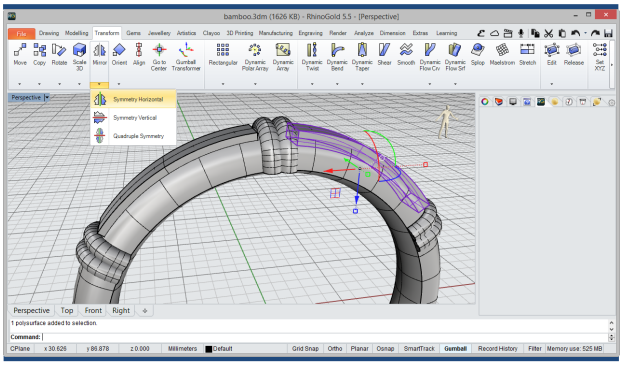
5 Parametrical Isocurves

Next, we'll trace a central curve in the ring with Parametrical Isocurves tool, adjusting the length of the curve with the controllers.



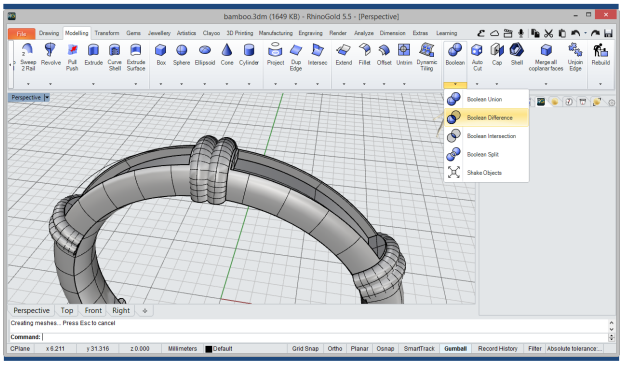
6 Dynamic Profile

In this step, we'll define a solid with the Dynamic Profile tool, at the Jewellery tab, applying the tool in the curve traced in the previous step.



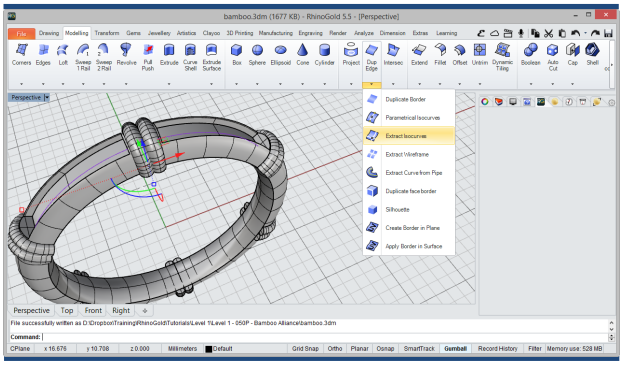
7 Symmetry Horizontal

Now, we'll duplicate the dynamic profile with the Symmetry Horizontal tool, at the Transform tab.



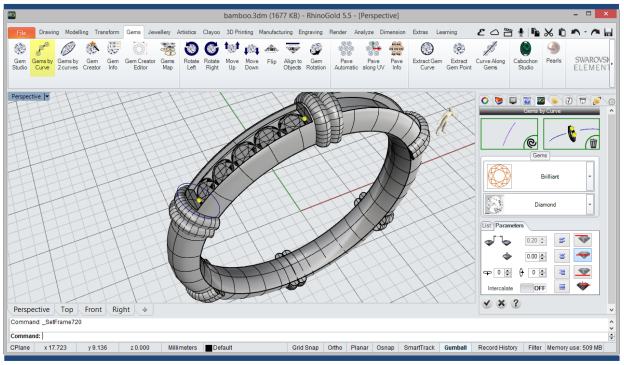
8 Boolean Difference

Then, we'll use the dynamic profiles as cutting objects using a Boolean Difference, at the Modelling tab, between the ring and the dynamic profiles.



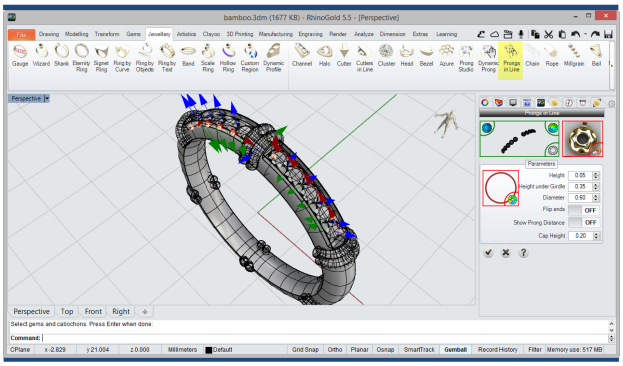
9 Extract Isocurves

In this step, we'll extract the central curve of the perforations surface with Extract Isocurves tool, as it is shown in the picture.



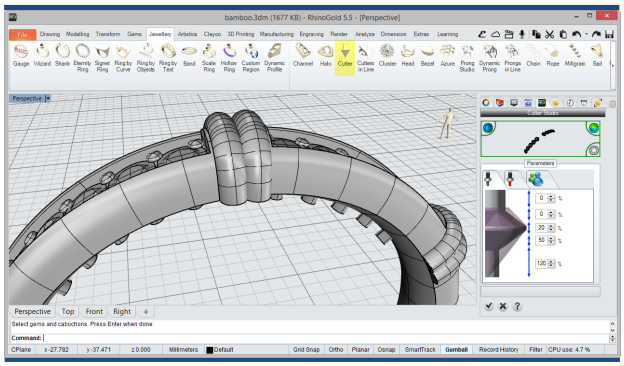
10 Gems by Curve

Now, we'll define some gems along the traced curve using the Gems by Curve tool, at the Gems tab.



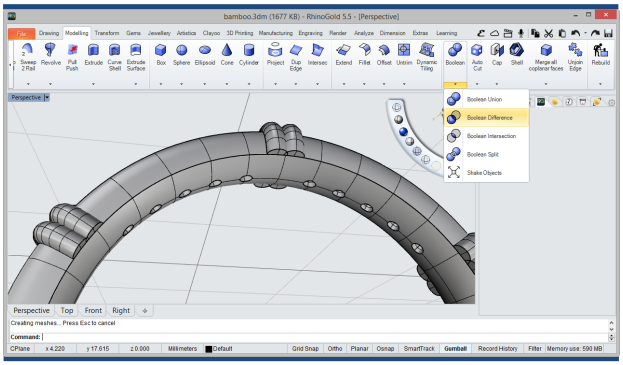
11 Prongs in Line

Next, we'll define the gem prongs with Prongs in Line tool, at the Jewellery tab if necessary we'll edit the prongs later with the Edit Prongs option.



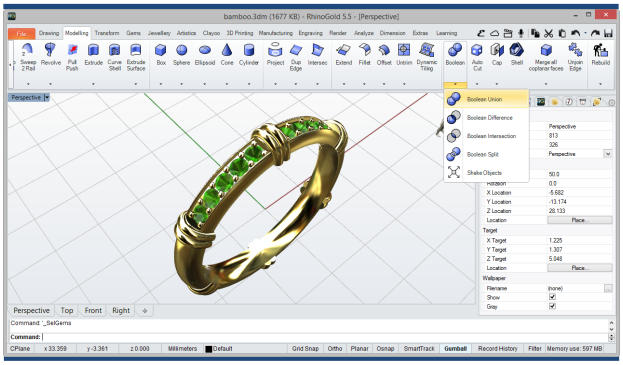
12 Cutter

In this step, we'll define the gem cutters with Cutter tool, at the Jewellery tab.



13 Boolean Difference

Now, we'll apply a Boolean Difference on the Cutters to subtract them of the ring surface.



14 Boolean Union

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