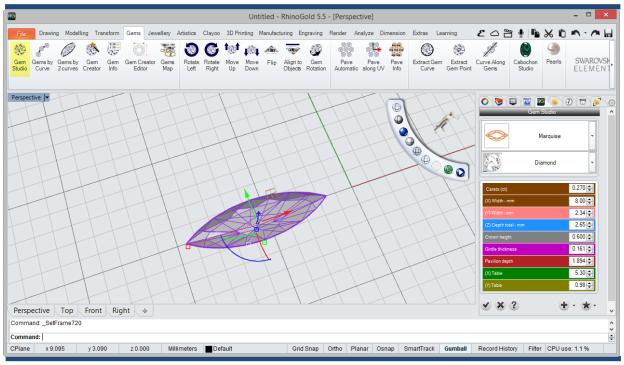
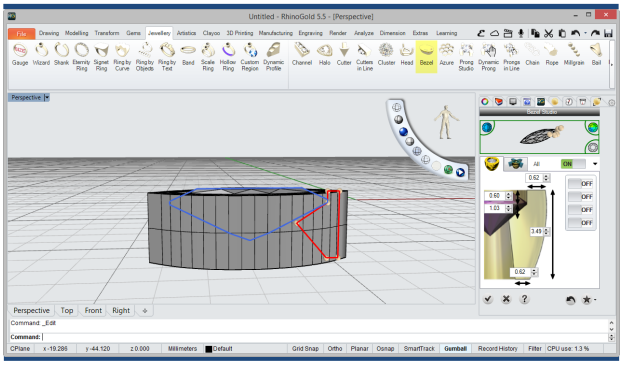
Floral Necklace

In this tutorial we'll try some of the more useful commands in RhinoGold. Powerful tools such as Gem Studio, Bezel, Curve Shell, Head, Dynamic Prongs and Dynamic Polar Array.



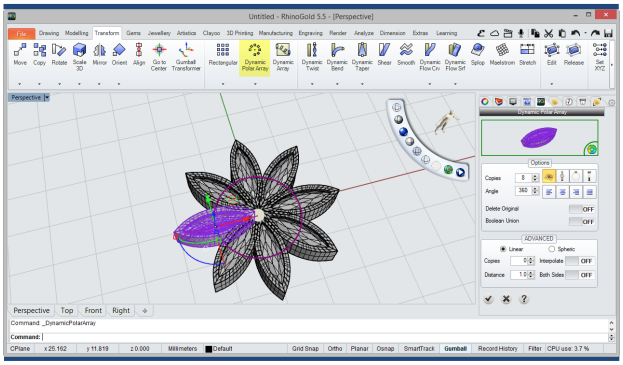
1 Gem Studio

First, we'll go to the Gems tab, select the Gem Studio tool and define a gem of 8 mm with Marquise cut.



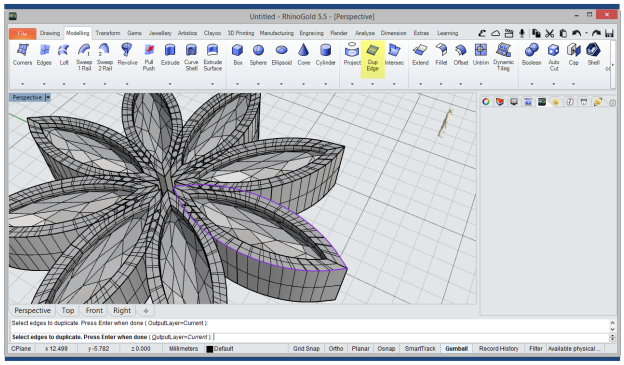
2 Bezel

Then, we'll define a bezel of 3.50mm for the Gem from Jewellery tab.



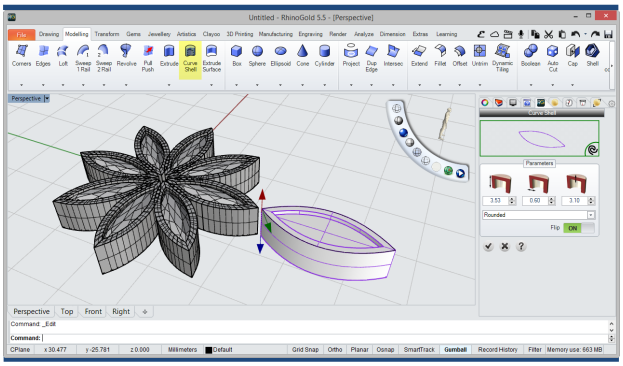
3 Dynamic Polar Array

Now, we'll select the Dynamic Polar Array tool, at the Transform tab and generate 8 copies of the gem and bezel.



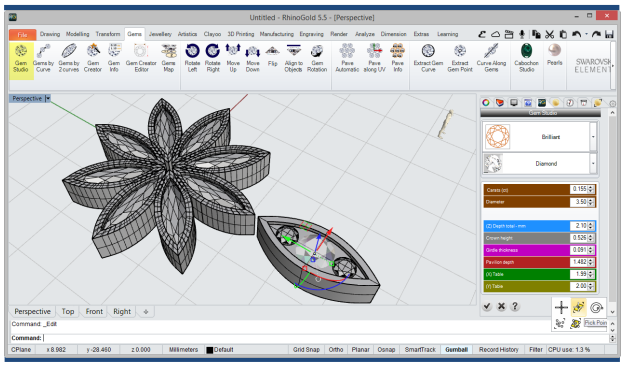
4 Duplicate Edge

In this step, we'll make a copy of the bezel top edge using the Duplicate Edge tool, located in the Modelling tab.



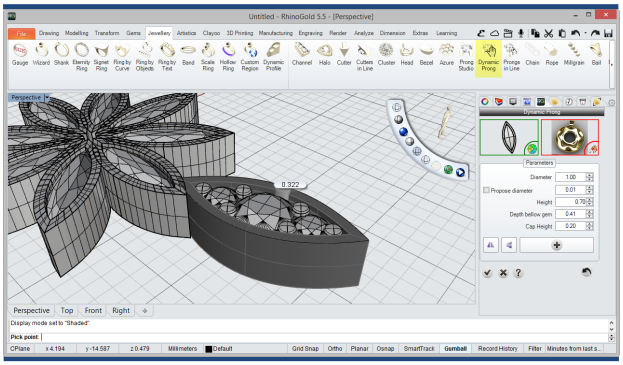
5 Curve Shell

Then, we'll select the Curve Shell tool, at the Modelling tab and apply it to the duplicated edge, generating a solid of 3.50mm in height.



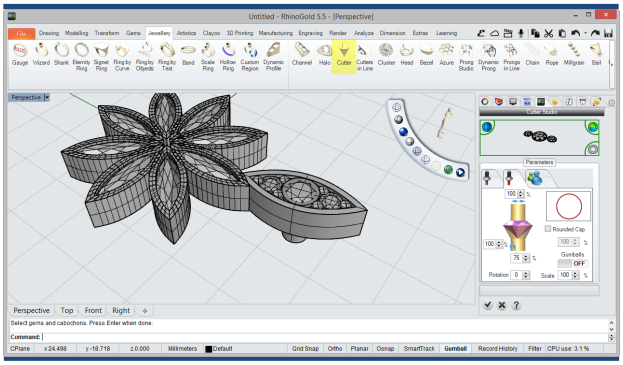
6 Gem Studio

In this step, we'll go to the Gems tab and select the Gem Studio tool again, define three gemstones of different sizes applied to the solid surface. We'll use the Orient by Surface option to position the gems.



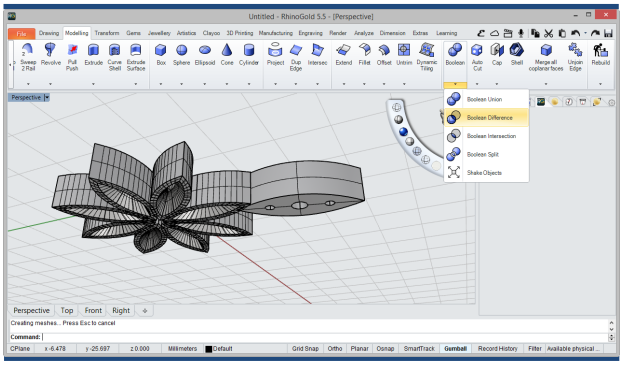
7 Dynamic Prong

Now, we'll apply the prongs to the Gems defined in the previous step using the Dynamics Prong tool, at the Jewellery tab.



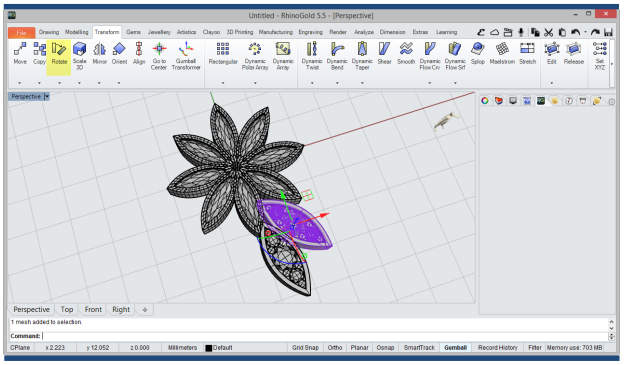
8 Cutter

Then, we'll define the cutters to the gems with Cutter Studio tool, at the Jewellery tab.



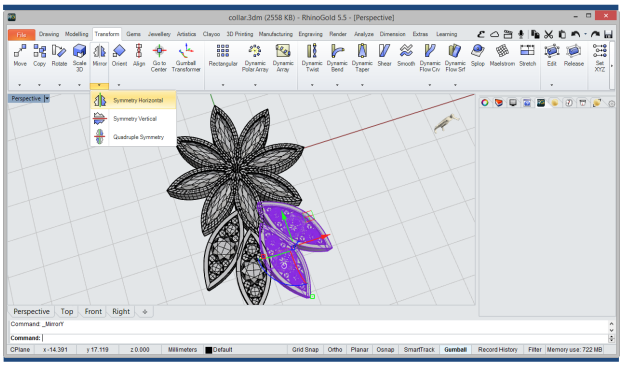
9 Boolean Difference

In this step, we'll apply a Boolean Difference to subtract the cutters from the solid surface.



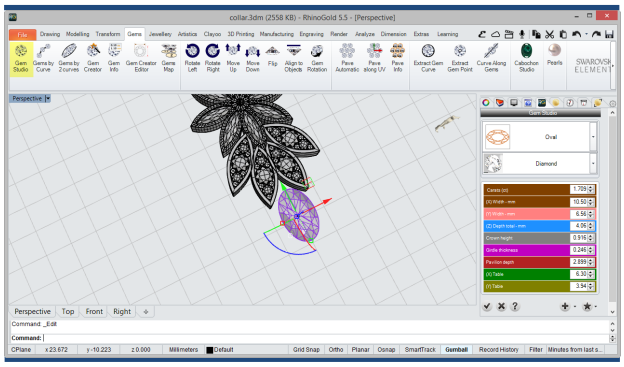
10 Rotate

Now, we'll generate a copy of the solid with gems using the Rotate tool, located at the Transform tab. We'll activate the Copy option in the Command Line.



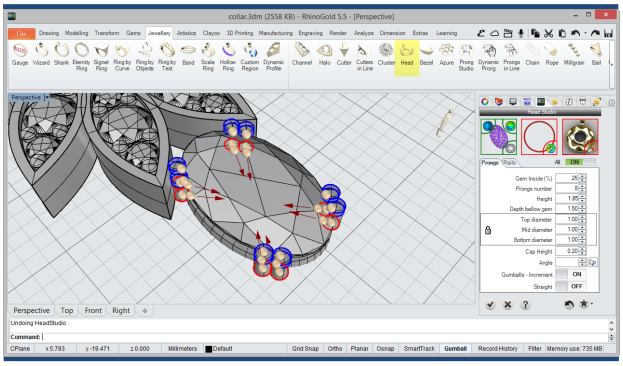
11 Symmetry Horizontal

Then, we'll apply a Symmetry of the two solids with gems using the Symmetry tool, at the Transform tab.



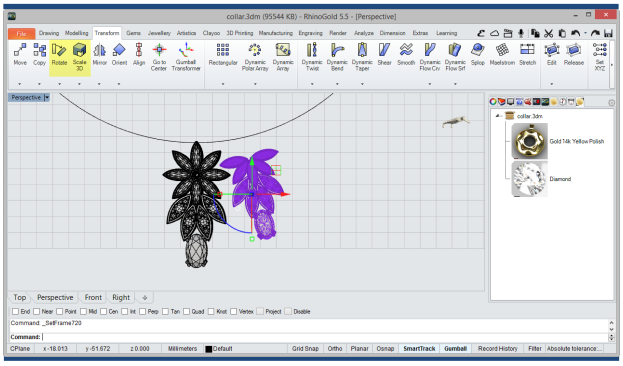
12 Gem Studio

In this step, we'll define an Oval gem cut of 10.5 mm with Gem Studio tool, located at the Gems tab, we'll position the gem of the same way as in the picture.



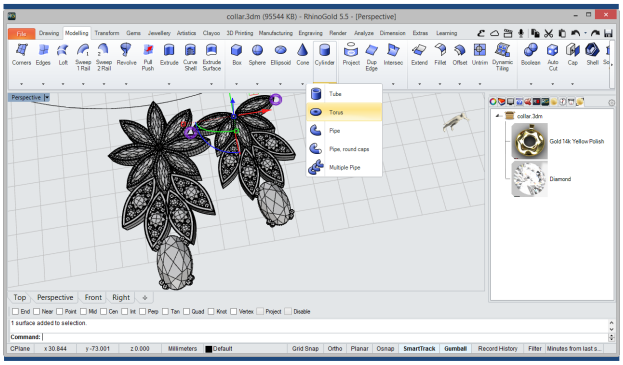
13 Head

Now, we'll apply the Head to the Gem from the Jewellery tab using the Head tool. We'll respect the parameters shown in the image.



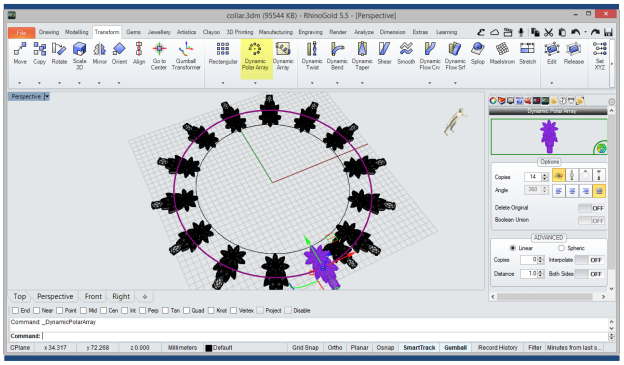
14 Rotate / Scale 3D

Then, we'll repeat the operation with the Rotate tool activating the Copy option in the Command line. We'll scale the copy to adjust the position later.



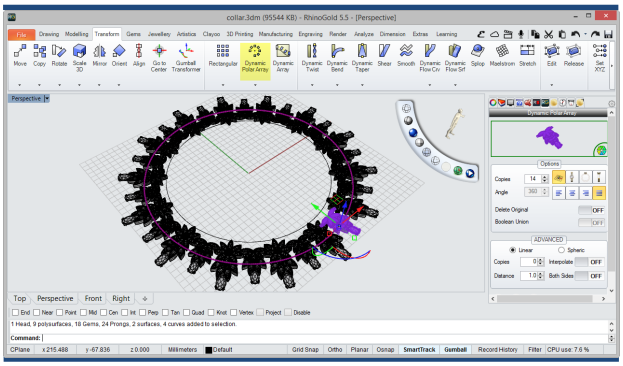
15 Torus

In this step, we'll define two solid with the Torus tool in the Cylinder submenu, at the Modelling tab and we'll position them on the sides of the copied solid.



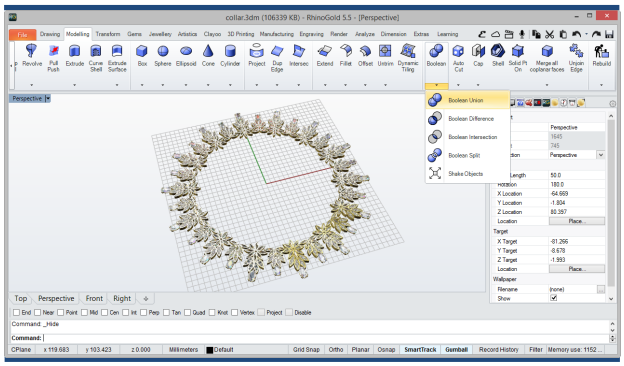
16 Dynamic Polar Array

Now, we'll apply an Array of 14 copies to the initial piece with Dynamic Polar Array tool, at the Transform tab.



17 Dynamic Polar Array

Then, we'll repeat the operation with the Dynamic Polar Array tool, on this occasion we'll apply it to the second piece, generating 14 copies.



18 Boolean Union

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