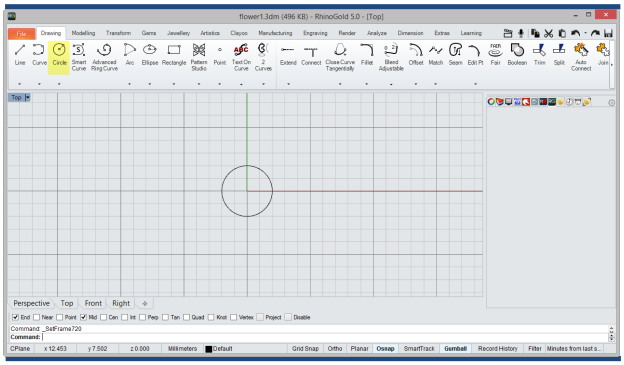
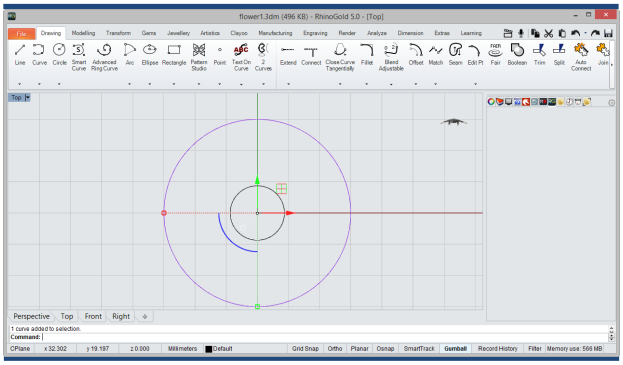
# Poppy Flower Pendant

In this tutorial we will use RhinoGold tools such as Circle, Ellipse, Gems by 2 Curves, Dynamic Profile, Dynamic Polar Array, Duplicate Edge, Pearls Studio.



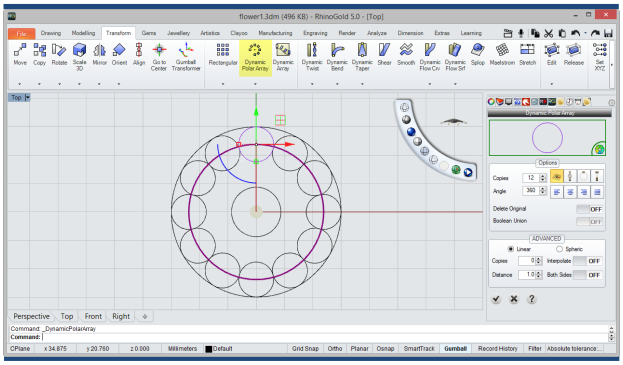
## 1 Circle

First, we'll go to the Drawing tab and select the Circle tool, define a circle with 8 mm diameter.



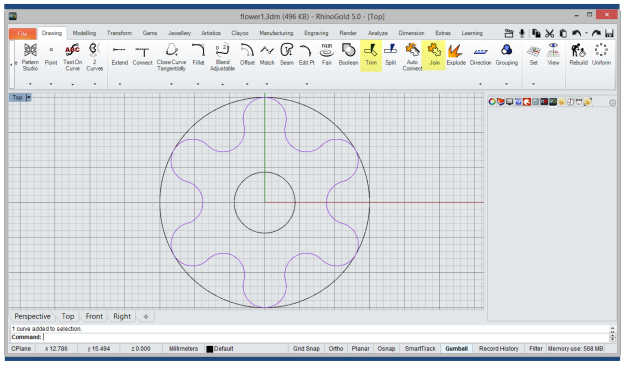
## 2 Circle

Repeat the operation with the Circle tool and will trace a curve with 30 mm diameter.



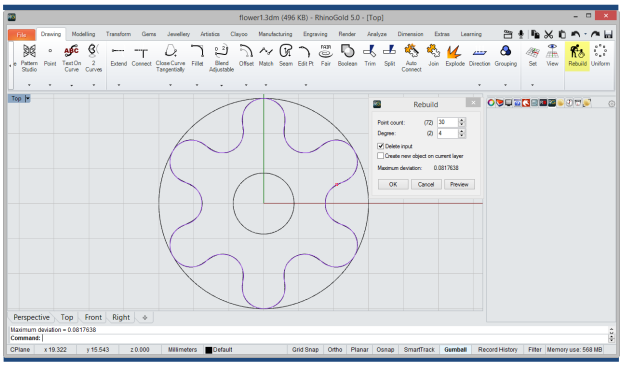
## 3 Circle/Dynamic Polar Array

Then, we'll trace a circle positioning below the highest curve and generate an Array of 12 copies with Dynamic Polar Array tool, we'll vary the diameter of the circle until obtaining tangent circles.



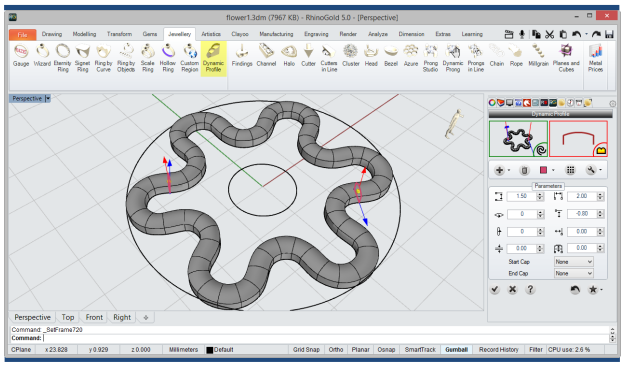
## 4 Trim/Join

Now, we'll apply the Trim tool between the circles obtaining similar curves to the image and unite it between them with the Join tool.



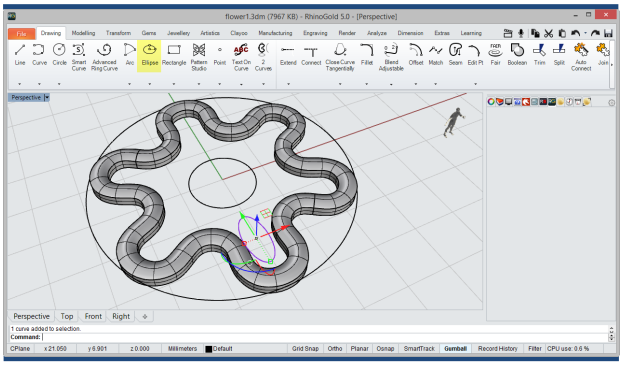
## 5 Rebuild

In this step, swe'll elect the Rebuild tool and apply it to the joined curve, will respect the parameters shown to the image.



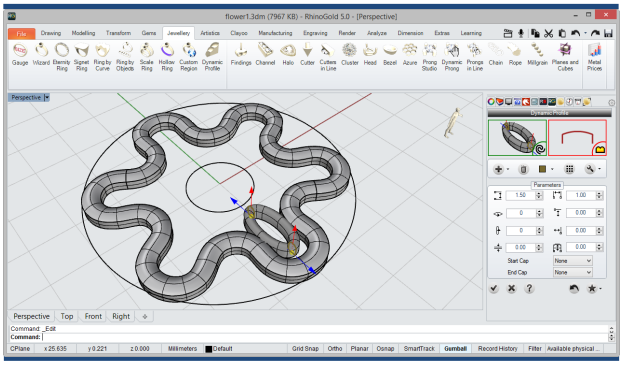
## 6 Dynamic Profile

Then, we'll go to the Jewellery tab and select the Dynamic Profile tool, apply it to the reconstructed curve, we define a profile of 1.50mm x 2mm and select the profile shown.



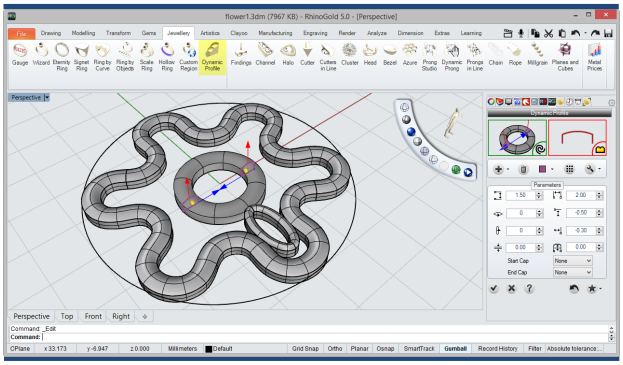
## 7 Ellipse

Then, we'll select the Ellipse tool and will trace a similar curve shown to the image.



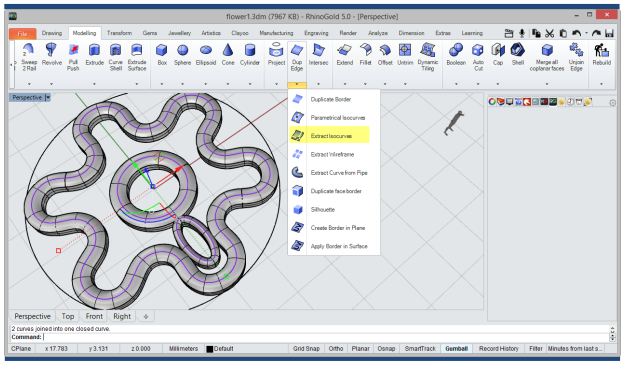
## 8 Dynamic Profile

Repeat the operation with Dynamic Profile applying it to the ellipse curve, defining a profile of 1.50 mm x 1 mm and with the same profile as above.



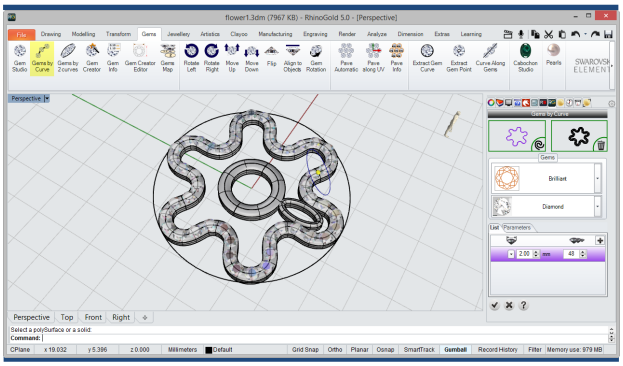
## 9 Dynamic Profile

Then, we'll return to apply the Dynamic Profile tool with 1.50 mm x 2 mm, in this case in the center circle, with the same profile.



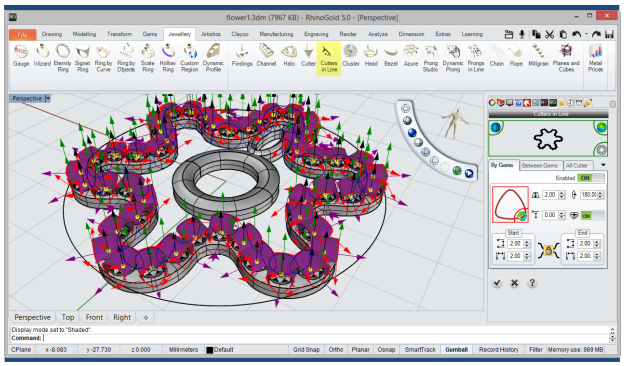
## 10 Extract Isocurve

Now, we'll select the Extract isocurve tool, in the Duplicate Edge Submenu and apply it to 3 profiles to extract the central curve.



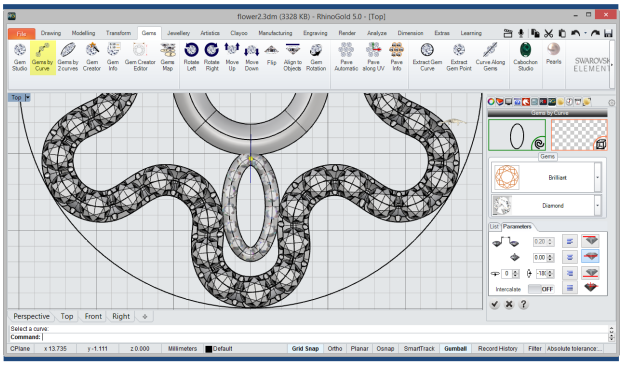
## 11 Gems by curve

Next, we can define some gems into the dynamic profile, using the extracted curve. We'll apply the Gems by curve tool, in the Gems tab.



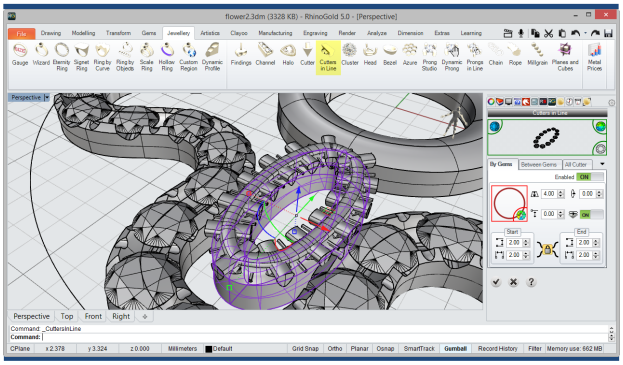
## 12 Cutters in Line/Boolean Difference

In this step, we'll define the Cutters to gems with Cutters in line tool, in the Jewellery tab, also define the cutters Between Gems and the Central Cutter from this tool. Then, we'll apply a Boolean Difference to subtract the holes in the surface of the Dynamic Profile.



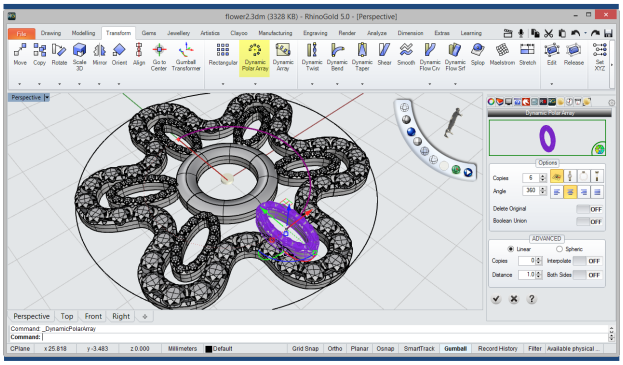
## 13 Gems by Curve

Now, repeat the operation with Gems by Curve tool by applying it on the ellipse profile.



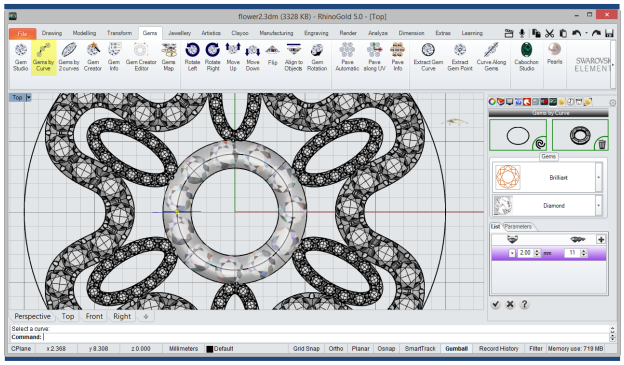
## 14 Cutters in Line/Boolean Difference

Also, repeat the operation with the Cutters in line tool and the Boolean difference, applying to the ellipse dynamic profile.



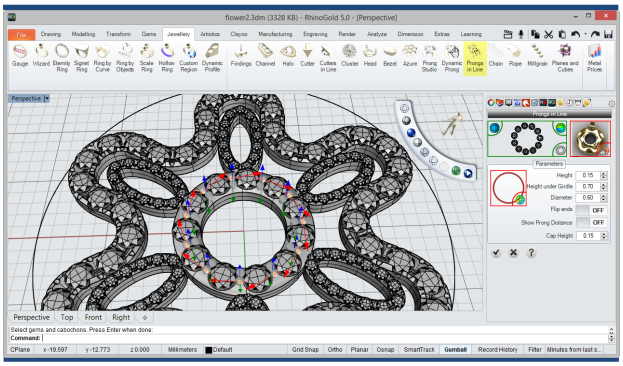
## 15 Dynamic Polar Array

Now, we'll select the Dynamic Polar Array tool and generate an Array with 6 copies with the dynamic profile of the ellipse and its gems group.



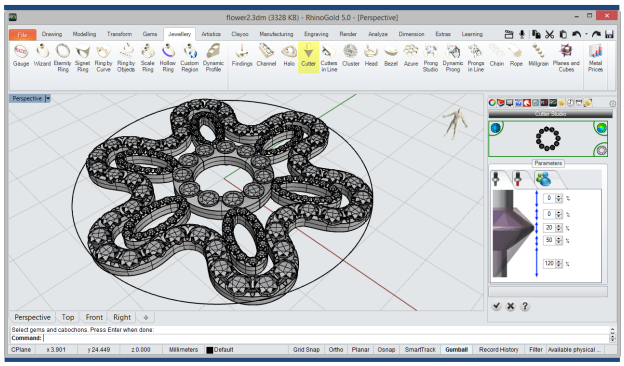
## 16 Gems by Curve

In this step, we'll repeat the process with the Gems by Curve tool, in the central dynamic profile.



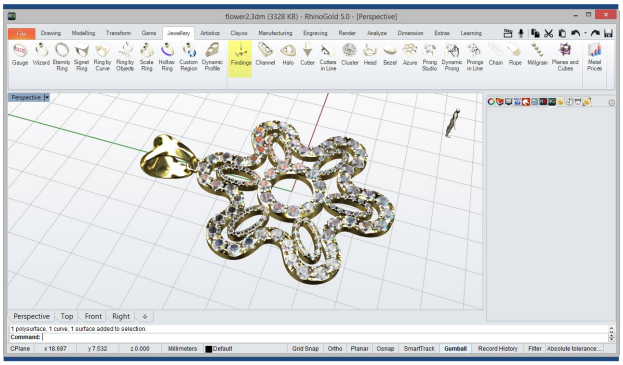
## 17 Prongs in Line

Now, we'll define a Prongs to the central gems with Prongs in Line tool, then we can adjust the prongs with the Edit option.



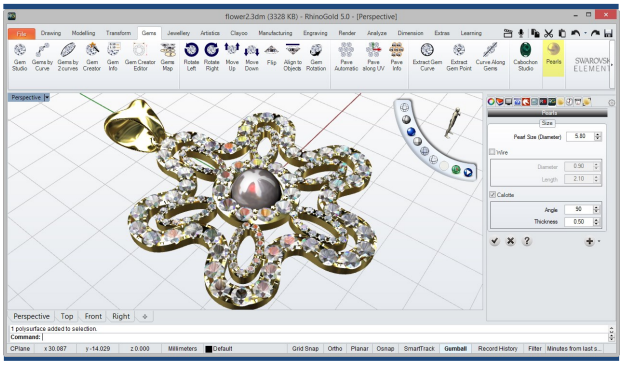
## 18 Cutters/Boolean Difference

Then, we'll define the cutters to the all gems with Cutter tool and apply a Boolean Difference to subtract the Cutters from the surface of the dynamic profiles.



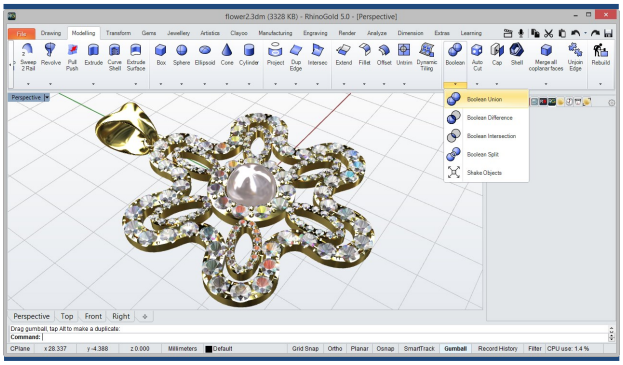
## 19 Findings

Then, we'll apply a finding for pendants from the Findings tool, in the Jewellery tab.



## 20 Pearls Studio

In this step, we'll go to the Gems tab and define a central pearl with Pearls tool.



## 21 Boolean Union

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