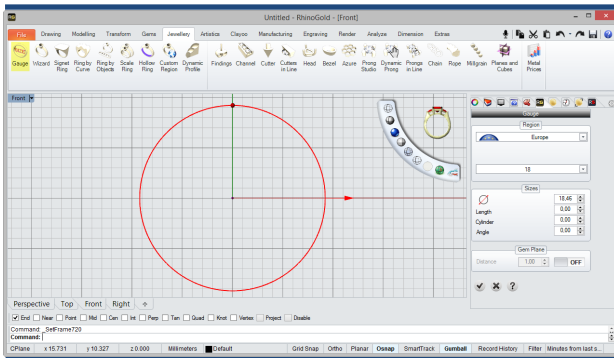




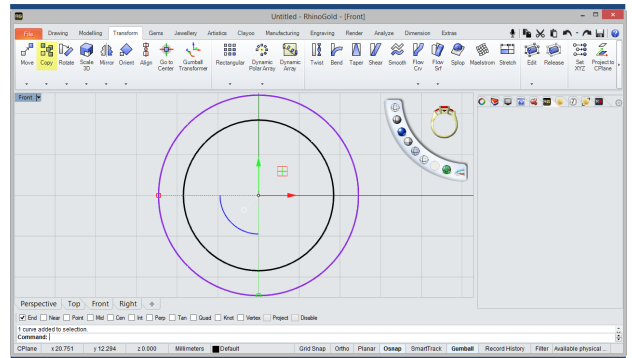
## V Ring

In this tutorial we are going to try some of the most useful commands in RhinoGold. Powerful tools such as Gauge, Pearls, Symmetry, Smart Curve and Extrusion.



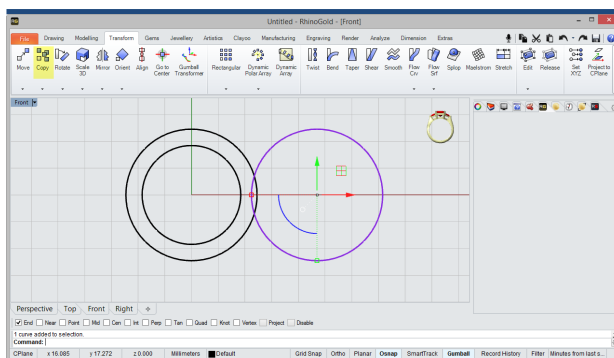
### 1 Gauge

First we will go to the Jewellery tab and select the Gauge tool, define a European 18 ring.



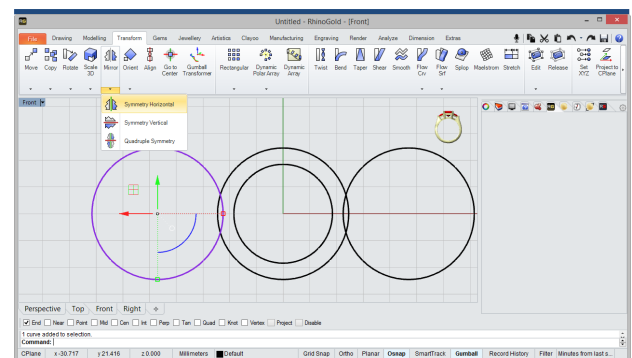
### 2 Copy

Then, we'll select the Copy tool, in the Transform tab and will make a copy of the Gauge curve, will enlarge it, leaving a 3mm spacing with the first.



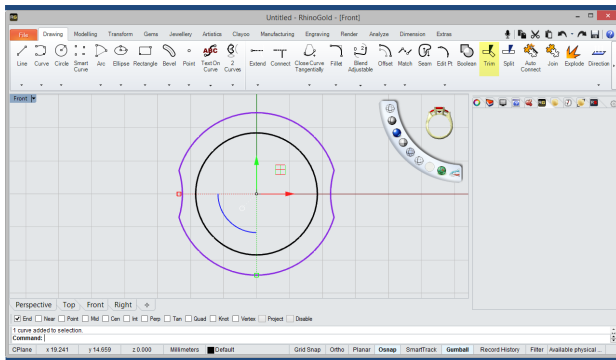
### 3 Copy/Move

Now, we'll copy the second curve and will position it with the gumball, as shown in the image.



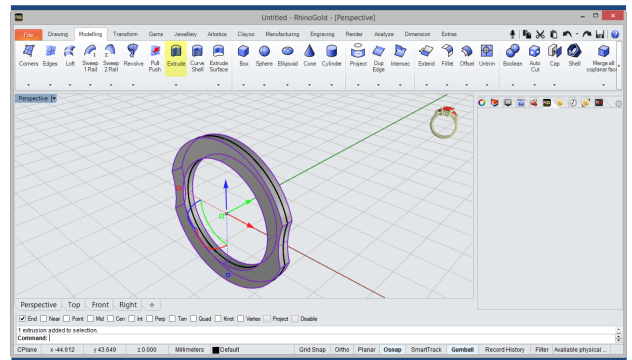
### 4 Symmetry Horizontal

Then, we'll select the Symmetry Horizontal tool in the Transform tab and apply it to the curve of the previous step.



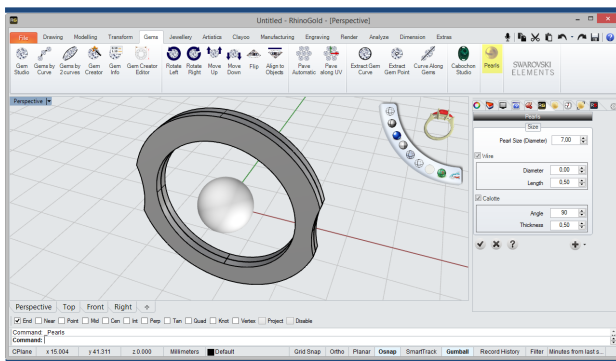
## 5 Trim

Then, we'll select the Trim tool and will apply it in the three shanks, obtaining a Central Shank similar to the image.



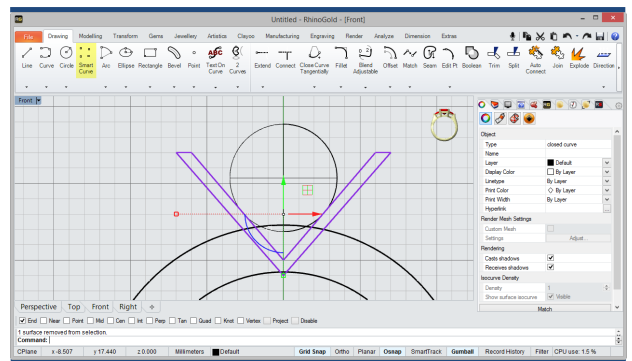
## 6 Extrude

In this step, we will apply the Extrude tool, in the Modelling tab, to the curve obtained in the previous step, define a solid 2mm thick.



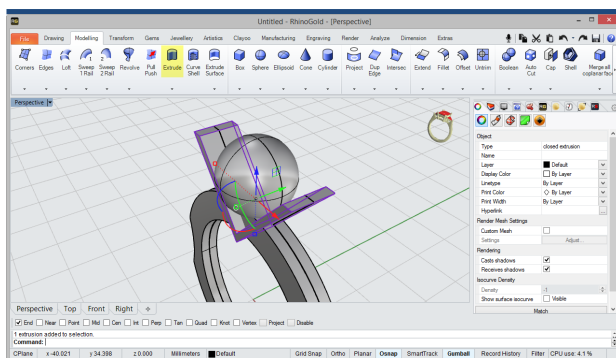
## 7 Pearls

Now, we'll define a 7mm pearl in diameter, with Pearls tool, within the Gems tab.



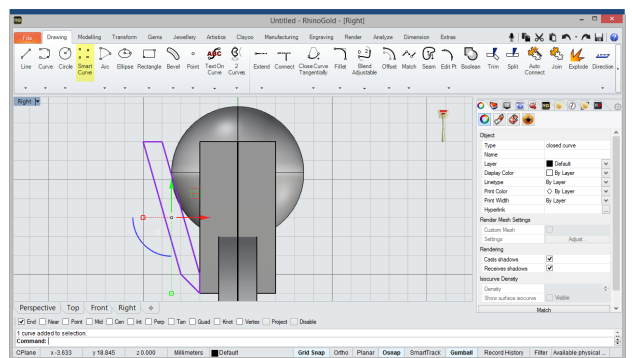
## 8 Move/Smart Curve

Then, we'll position the Pearl above the Shank and will trace a closed curve with the Smart Curve tool with a similar result to the image.



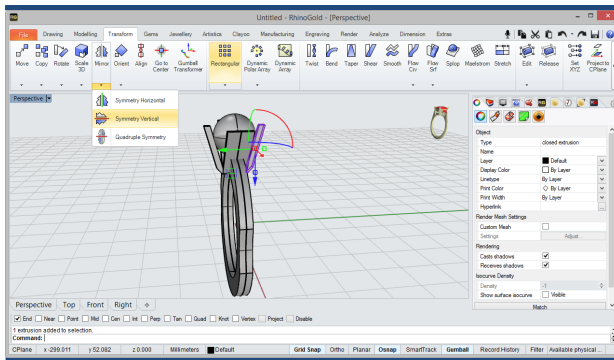
## 9 Extrude

In this step, we'll apply a 4mm Extrusion to the closed curve from the previous step.



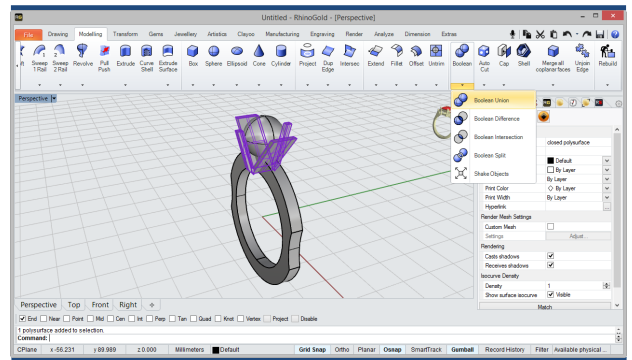
## 10 Smart Curve/Extrude

Now, we'll select the Smart Curve tool and will trace a closed curve as shown in the image, then will apply a 1mm extrusion.



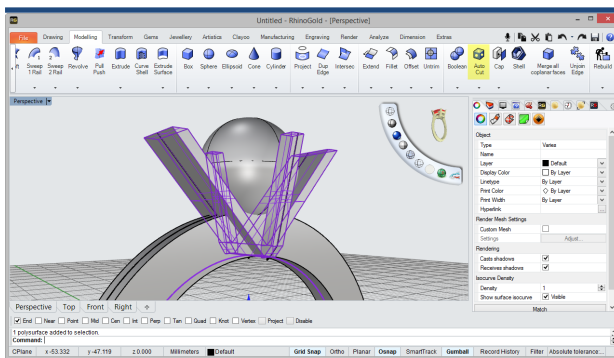
## 11 Symmetry Vertical

Then, with the Symmetry Vertical tool will make a copy of the solid created in the previous step.



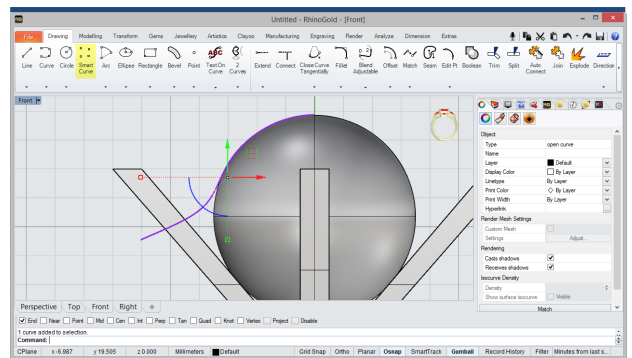
## 12 Boolean Union

In this step, we'll apply a Boolean Union between the extruded solids, as shown in the image.



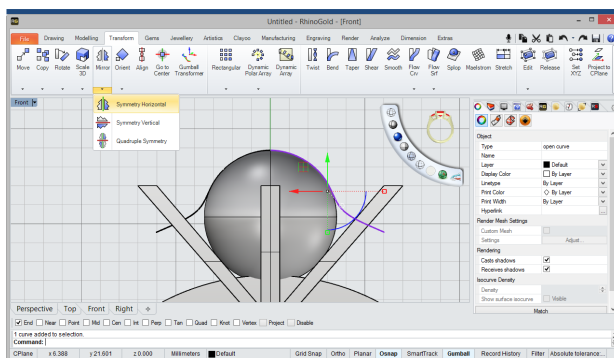
## 13 Auto Cut

Now, following in the Model tab, we'll select the Auto Cut tool and apply it between the Gauge curve and the joined solids, to subtract the excess.



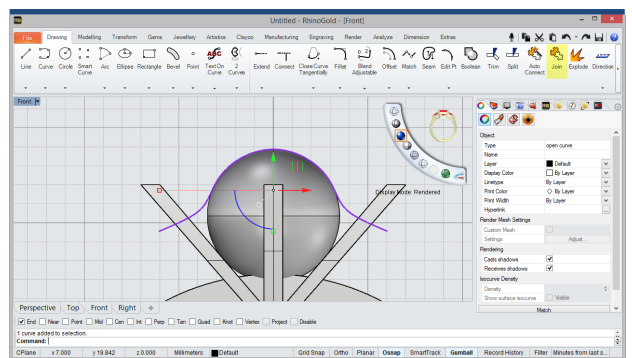
## 14 Smart Curve

Then, we'll select the Smart Curve tool and will trace a curve, as shown in the picture.



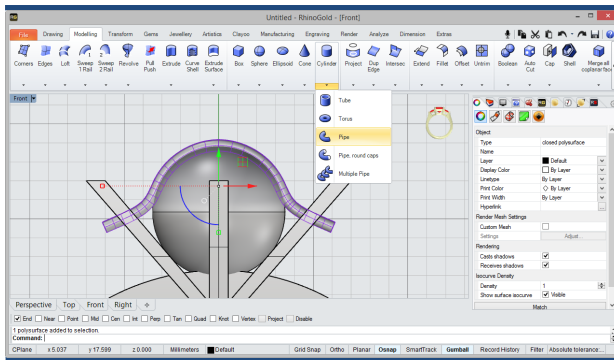
## 15 Symmetry Horizontal

In this step, we'll select the Symmetry Horizontal tool and apply it to the curve drawn in the previous step.



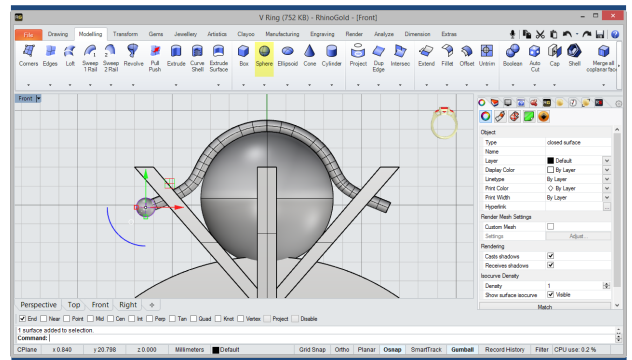
## 16 Join

Now, in the Drawing tab, we'll select the Join tool and apply it to the two curves.



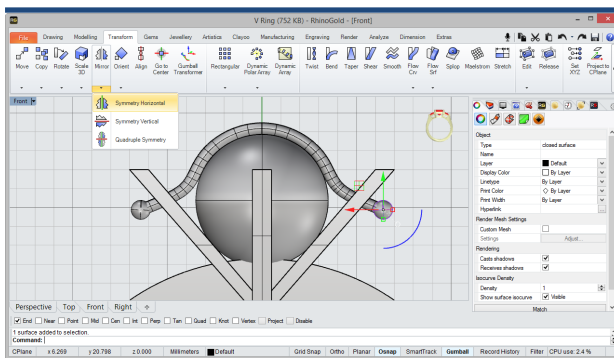
## 17 Pipe

Then, We'll select the Pipe tool, within the Cylinder submenú, in the Model tab and define a solid as of the previous step curve.



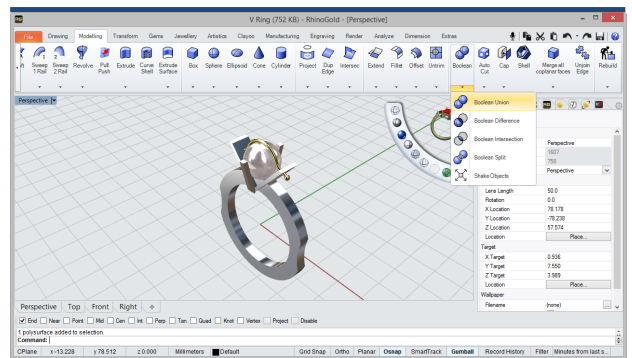
## 18 Sphere

In this step, we'll add a sphere at the end of the pipe with the Sphere tool, in the Modeling tab.



## 19 Symmetry Horizontal

Now, we will make a copy of the sphere with the Symmetry Horizontal tool.



## 20 Boolean Union

Finally, we'll apply a Boolean Union to join the shank with the group of joined solids above.