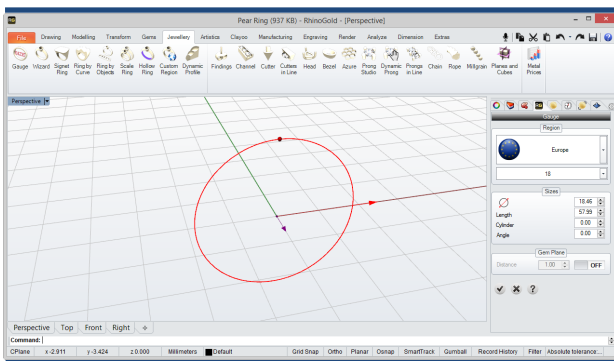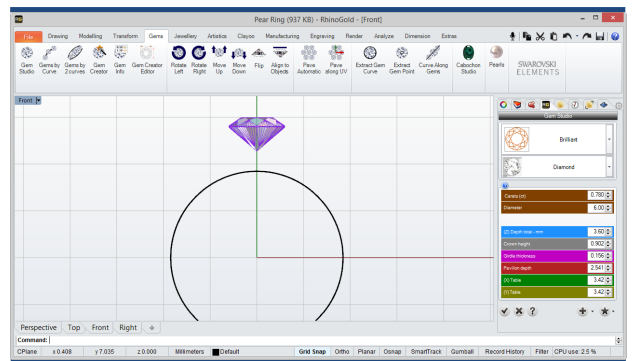# RhinoGold®

Pear Ring

In this tutorial we are going to try some of the more useful commands in RhinoGold. Tools such as Gem Studio, Cutter Studio, Prong Studio, Extract Isocurve and Mirror.
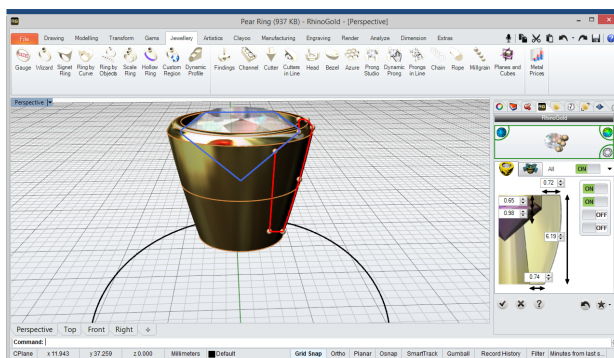

1 Gauge

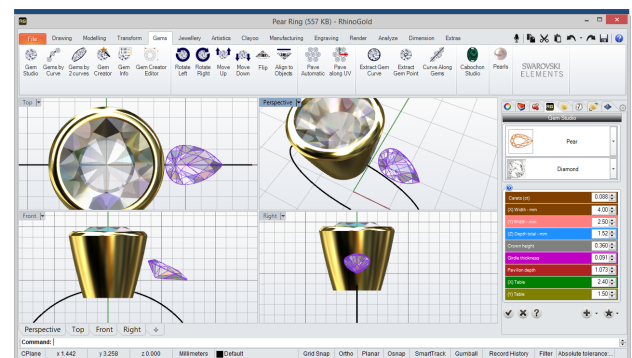First create a ring, European type and size 18, with Ring Gauge tool.

2 Gem Studio

Now create a gem of 6 mm diameter and will position as in the image, with Gem Studio tool.
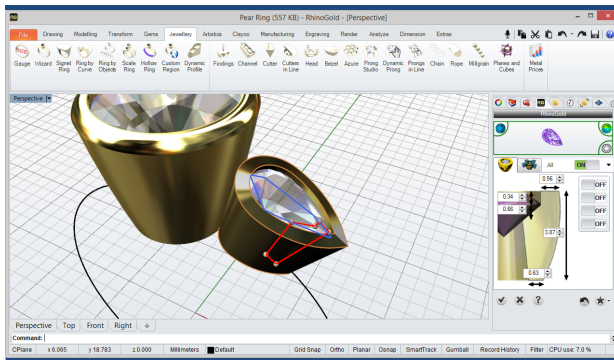

3 Bezel

Then, select the Bezel tool and apply it to the gem, define a similar bezel to image with parameters of the tool
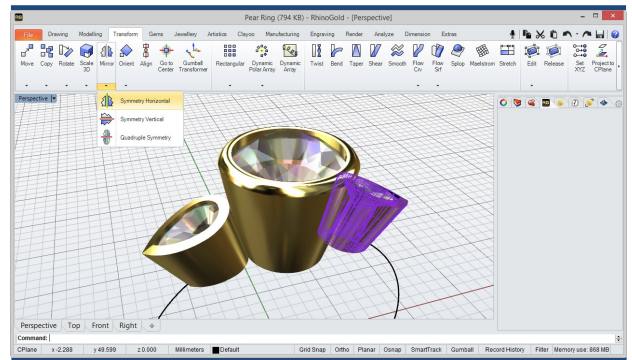

4 Gem Studio

Now, with the Gem Studio tool will create a 4mm gem and will position beside the first, as shown in the picture.
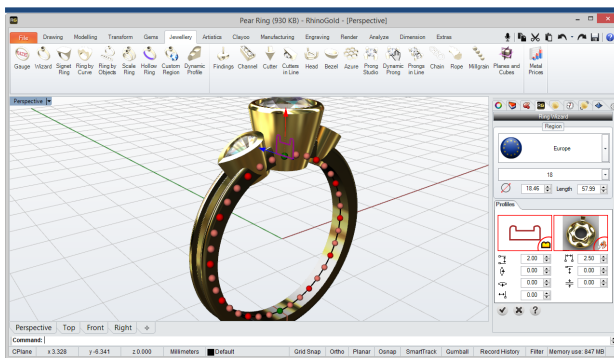
TDM Solutions;

5 Bezel

After creating a new gem, you define a bezel, similar to the image.
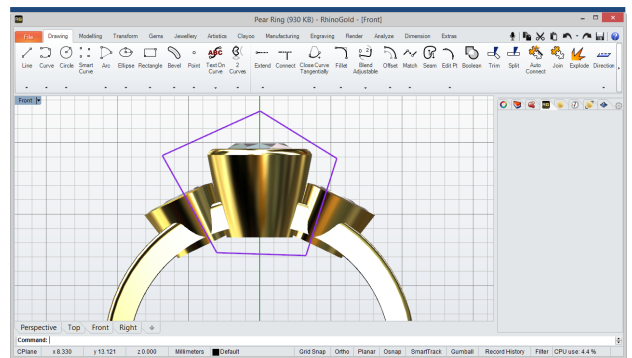

6 Symmetry Horizontal

Now with the Symmetry Horizontal option within the submenu Symmetry tool, create a new piece.

7 Ring Wizard

Then, create a ring with the Ring Wizard tool in Jewellery tab. We will define a profile equal to the image, select the number 011 in the library.
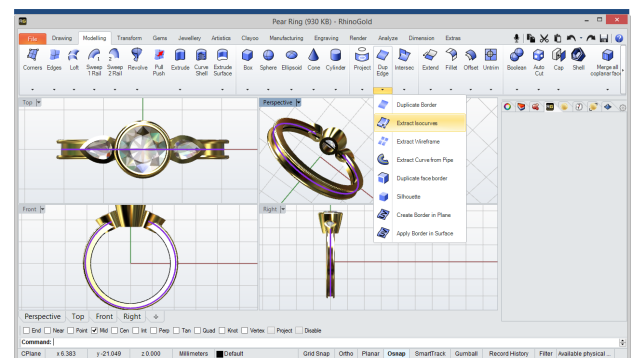

8 Polyline

In this step we will create a curve in the center of the ring, as shown in the picture, with the Polyline option, within the submenu of the Line tool.
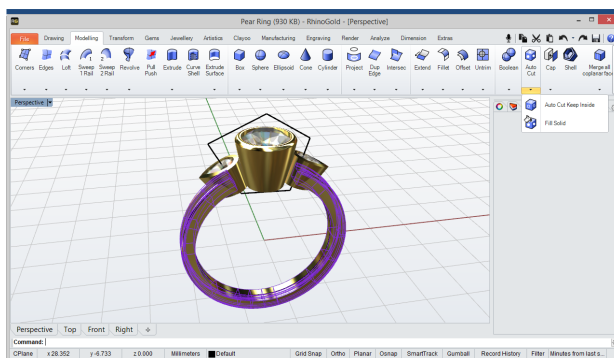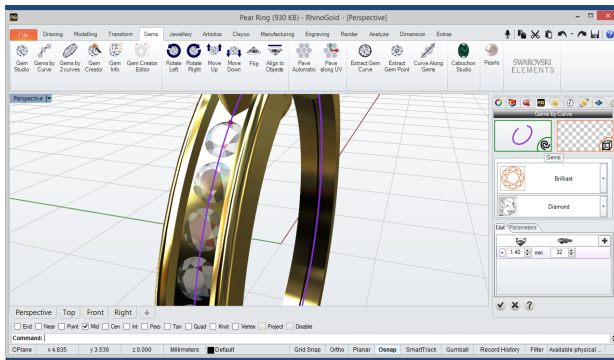

9 Auto Cut

Select the Auto Cut tool and apply it between the curve created earlier and the ring.
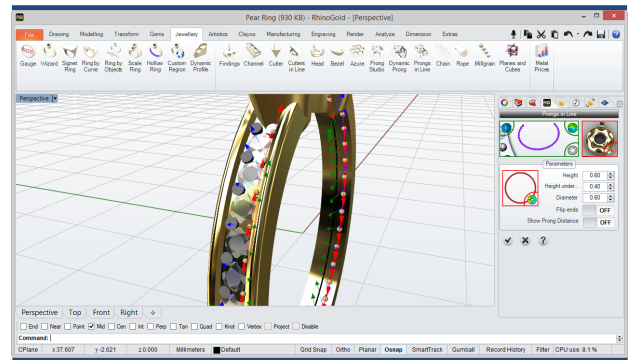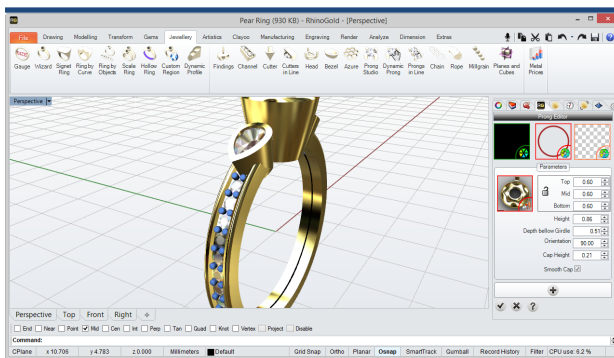

10 Extract Isocurves

Now with the E xtract Isocureves option of Duplicate Edge tool, extract the profile curve of the ring, as shown in the picture.
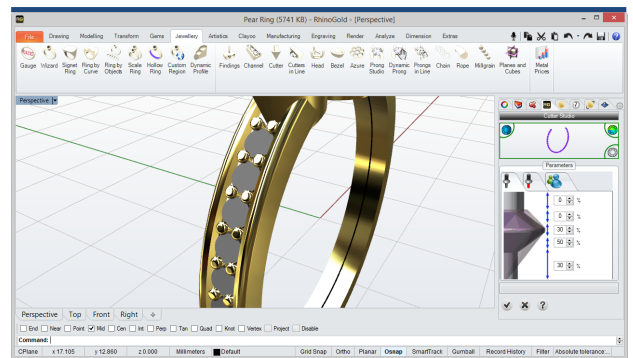
TDM Solutions

11 Gems by Curve

Then apply gems of 1.40 mm along the curve selected above, with Gems by Curve tool.

12 Prongs in Line

Now, define the prongs subject to the gems with Prongs in Line tool.
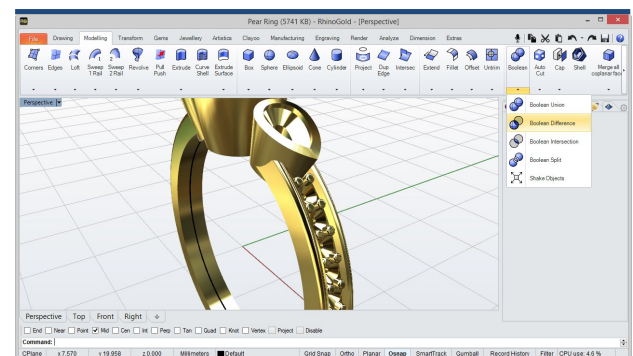

13 Prong Editor

Then we will edit the prongs with parameters panel and will position correctly, as shown in the picture.

14 Cutter Studio

Now, apply the cutters to gems created in the previous step, with the Cutter Studio tool, will respect the parameters of the image.
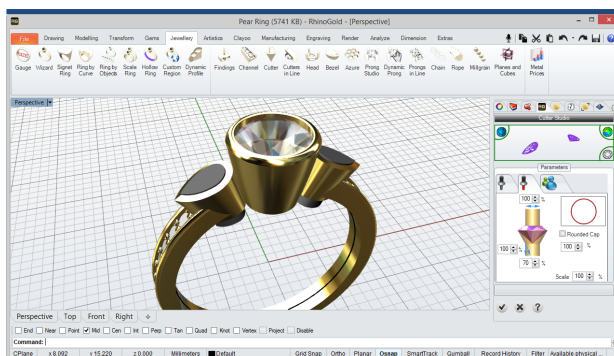
15 Cutter Studio

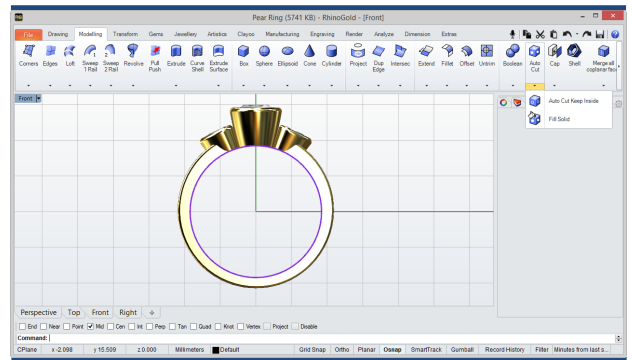This step will place the cutters to the two side gems, as pictured above.

16 Boolean Difference

Then apply a Boolean Difference all ring cutters to subtract from the surface.
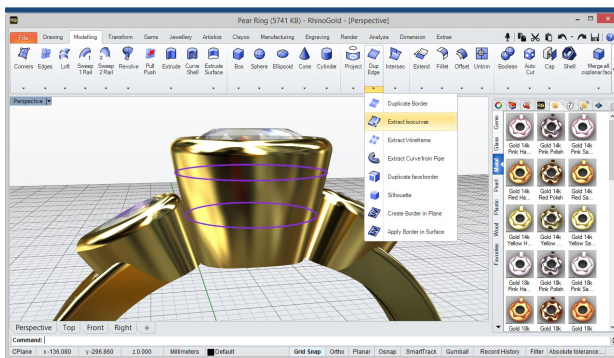
TDM Solutions;
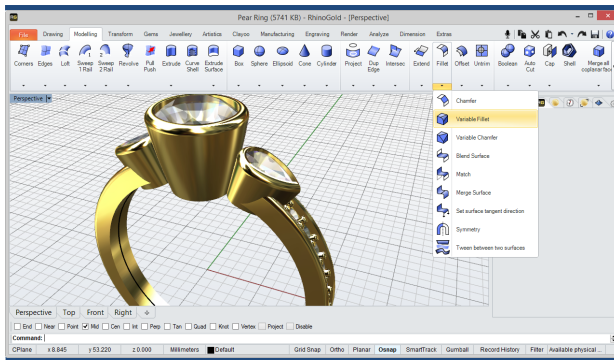
17 Variable Fillet

Now, we will apply in the bezels, the Variable Fillet option of the Fillet tool.
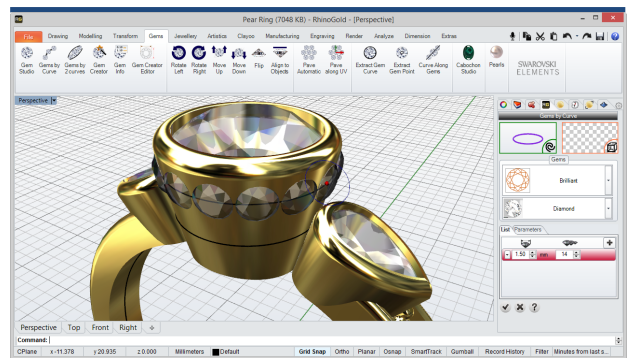

18 Auto Cut

Then will adjust the size bezels Ring, select the Gauge curve and apply the Auto Cut tool.
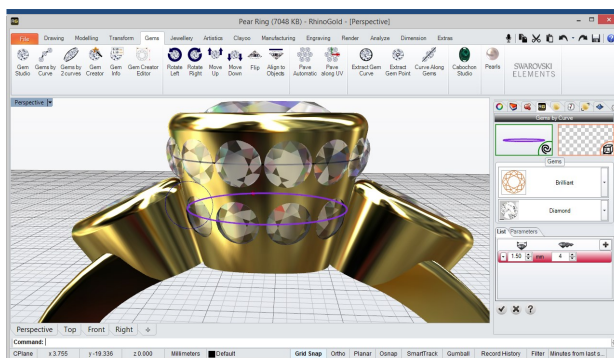

19 Extract Isocurve

In this step we will extract two curved bezel with Extract Isocurves tool.
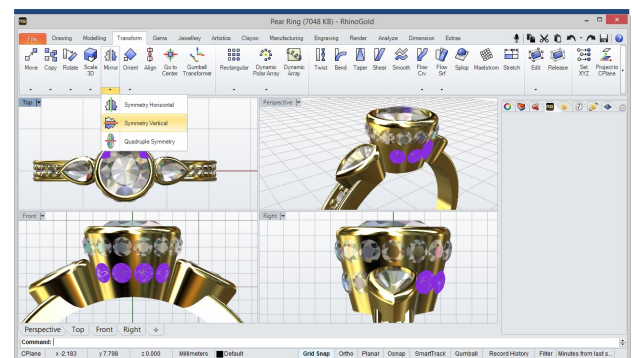

20 Gems by Curve

With the Gems by Curve tool will apply gems of 1.50 mm using one of the guiding curves extracted above.
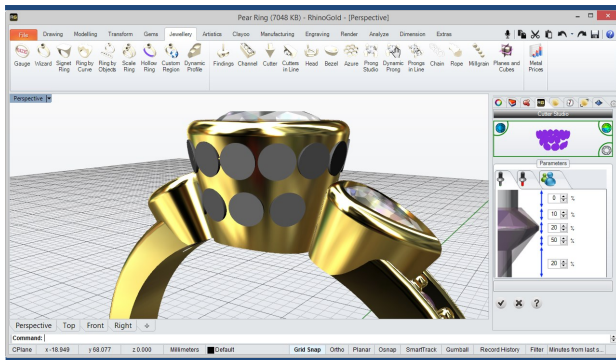

21 Gems by Curve

Repeat the application of Gems by Curve with the other extracted curve, applying four gems, as shown in the picture.
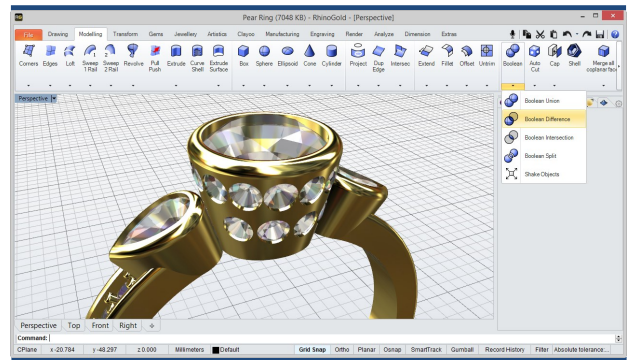

22 Symmetry Vertical

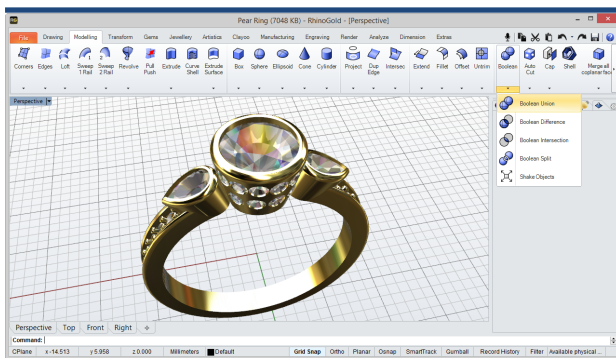Now select the four gems and we will apply a Symmetry.

23 **Cutter Studio**

Then apply the cutters to last gem created with the Cutter tool.

24 **Boolean Difference**

Now, select the option of Boolean Difference and apply it to the cutters to substract of the ring surface.

25 **Boolean Union**

Finally we will unite all solids with Boolean Union to unify the ring.