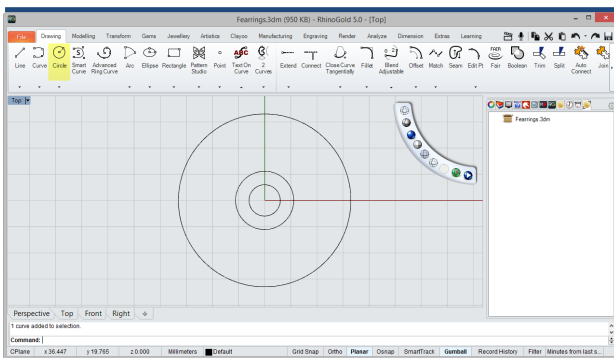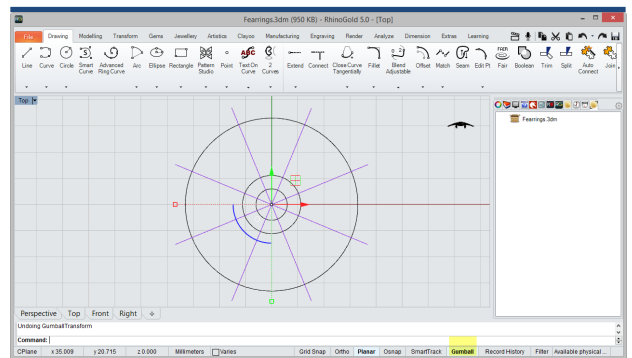# RhinoGold®

Flower Pendant

In this tutorial we will use RhinoGold tools such as Smart Curve, Edit Points, Sweep 1 Rail, Halo, Dynamic Bend and Dynamic Polar Array.
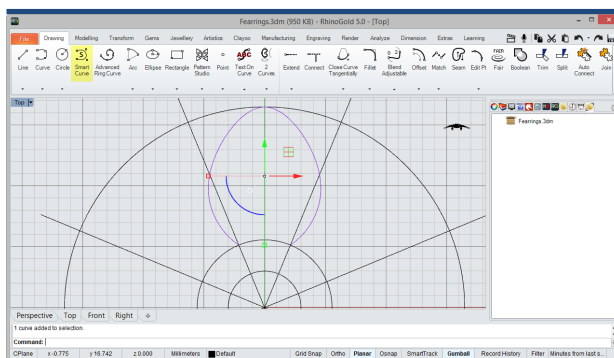

1 **Circle**

First, we'll go to the Drawing tab and select the Circle tool, and define three curves as guides, the center circle radius has 3 mm, 5.5 mm medium and large 16.5 mm.
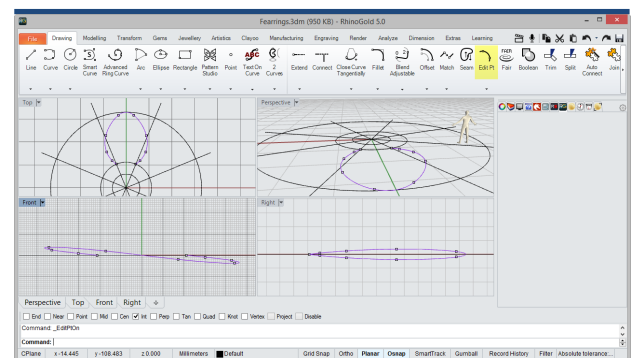
2 **Line/Gumball**

Now, select the Line tool and define four curves, as shown in the image and rotate it with the Gumball command.
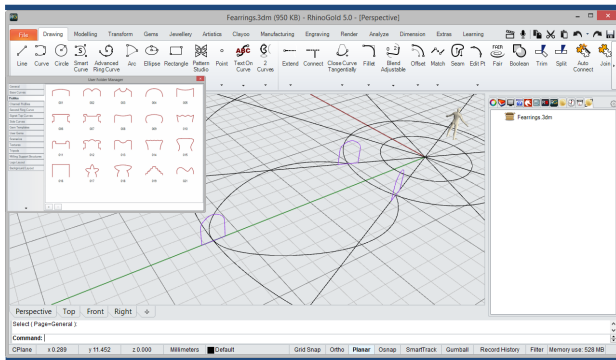

3 **Smart Curve**

Then, we'll trace a similar curve to the image with Smart Curve tool.

4 **Edit Point**

In this step, we'll go to the Edit Points tool and define the eight lateral points, as picture show, shifting points in the y-axis (vertical): 0.1mm, 0.25mm, 0.5mm, 0.2mm and negative -0,1mm, -0,25mm, -0.5mm, -0,2mm.
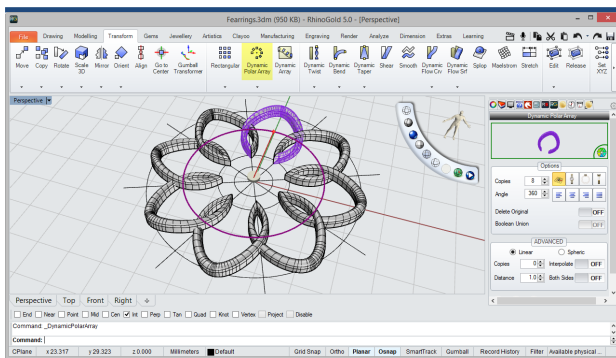
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5 Profiles

Now, we'll go to the User Folder Manager, go to the Profiles tab and select the first profile and close the profile joining another curve at its base.
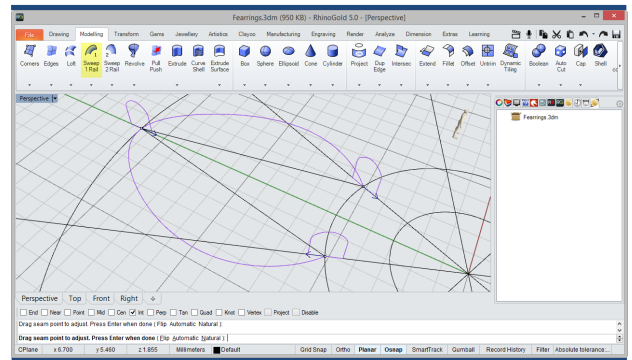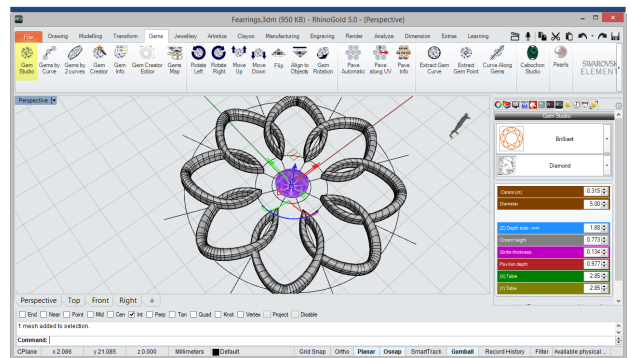

6 Sweep 1 Rail

Then, we'll select the Sweep 1 Rail tool, in the Modelling tab and apply between the traced curves and profiles. We'll respect the directions shown in the image to apply the Sweep tool.
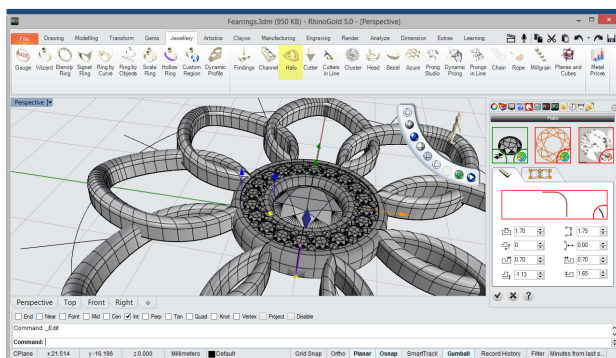

7 Dynamic Polar Array

Then, we go to the Transform tab and select Dynamic Polar Array tool, defining an Array of 8 copies.
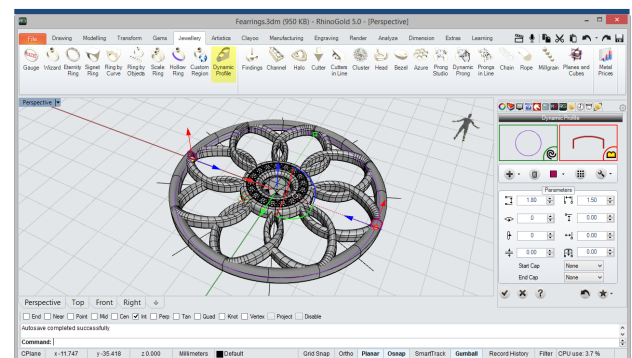

8 Gem Studio

Now, create a gem of 5 mm, with a depth of 1.0mm pavillon depth, with Gem Studio, in the Gems tab.
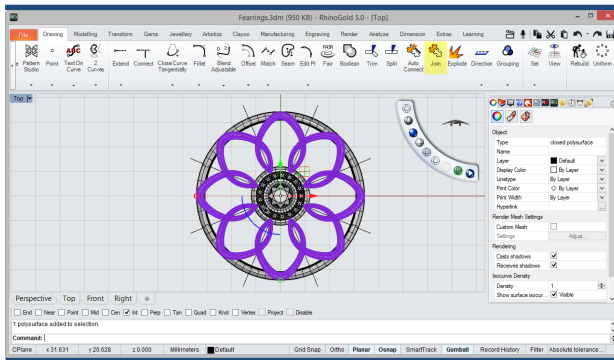

9 Halo

Then, we'll go to the Jewellery tab and apply a Halo on the gem, look that the Halo walls come into contact with the gem and swept surfaces.
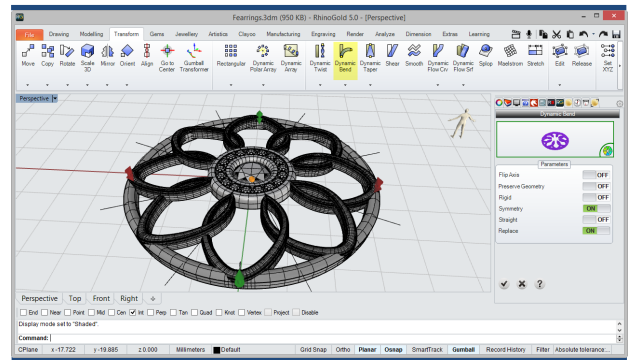

10 Dynamic Profile

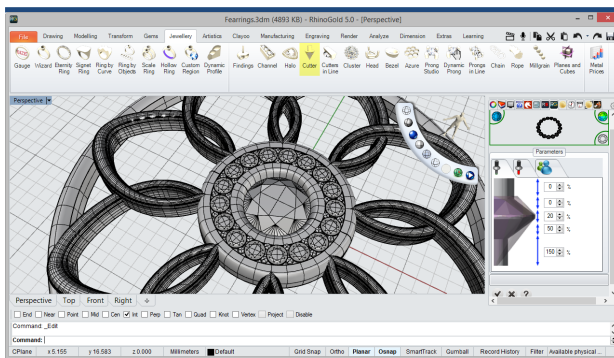Now, apply a Dynamic Profile 1,80mm x 1.50mm in the larger circle curve.

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11 Join

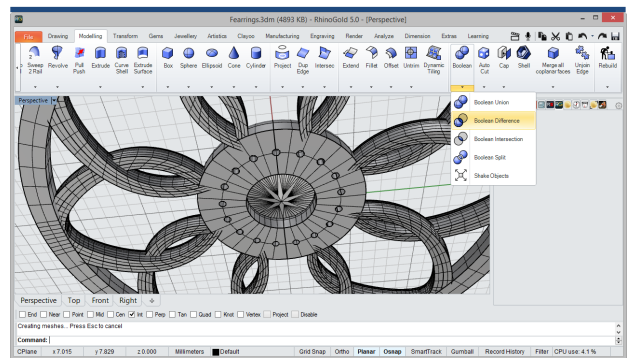Then, we'll put together swept surfaces with the join tool, on the Drawing tab.

12 Dynamic Bend

In this step, we'll select the Dynamic Bend tool in the Transform tab and apply it to Dynamic Profile and joined surfaces.
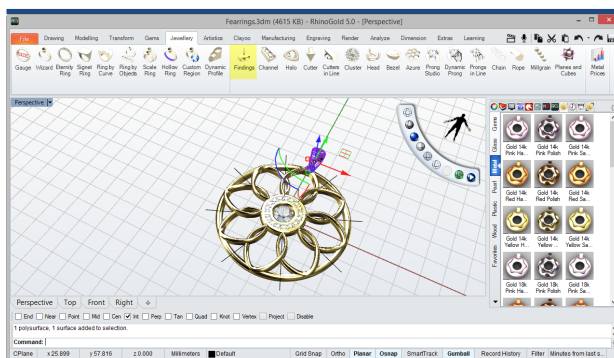

13 Cutter

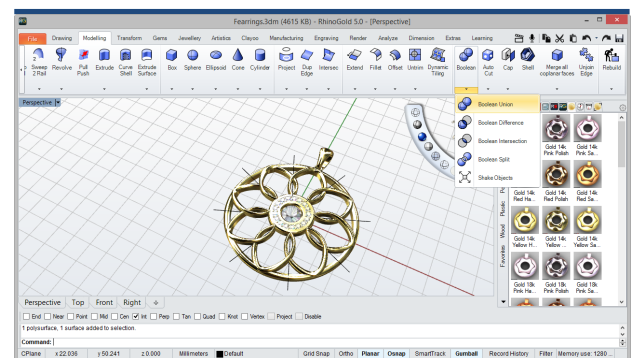Then, we'll define the Cutters to Halo gems, with the Cutter tool, in the Jewellery tab.

14 Boolean Diference

Now, we'll apply a Boolean Difference to subtract the Cutters from Halo surface.

15 Findings

Then, we'll select a Finding for a pendant on the Findings Library.

16 Boolean Union

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

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