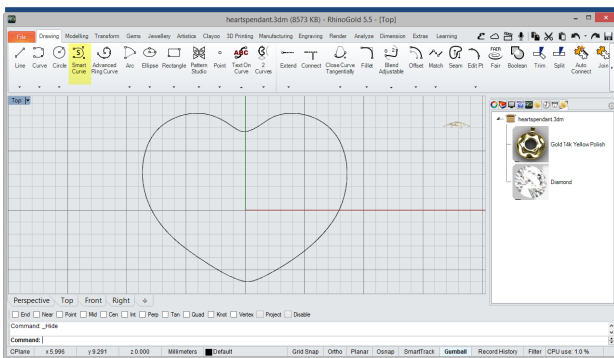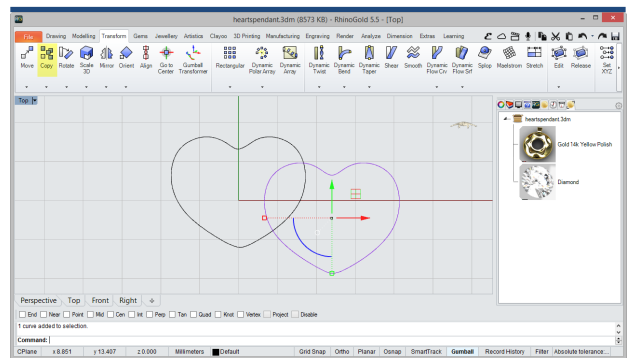# RhinoGold®

Hearts In Love Pendant

In this tutorial we'll try some of the more useful commands in RhinoGold. Powerful tools such as Smart Curve, Dynamic Profile, Gems by Curve, Pipe, Gem Studio, and Curve Shell .
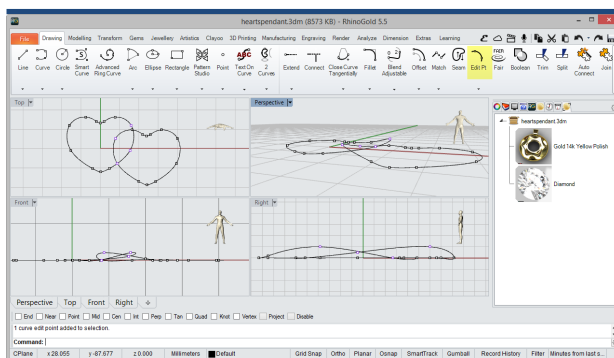

1 ## Smart Curve

First, we'll go to the Drawing tab and select the Smart Curve tool, trace a curve of 15 mm similar to that shown in the image.
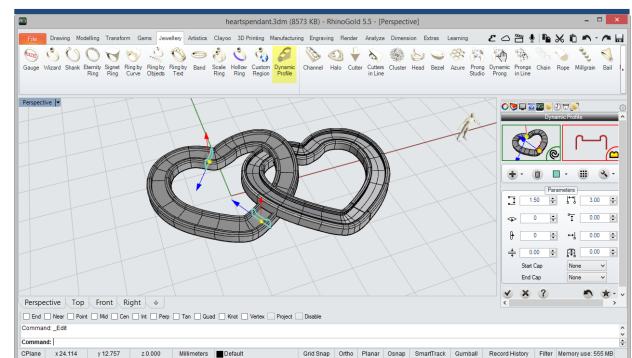

2 ## Copy

Then, we'll make a copy of the curve with the Copy tool, in the Transform tab. We'll position the new curve in the same manner as in the image.
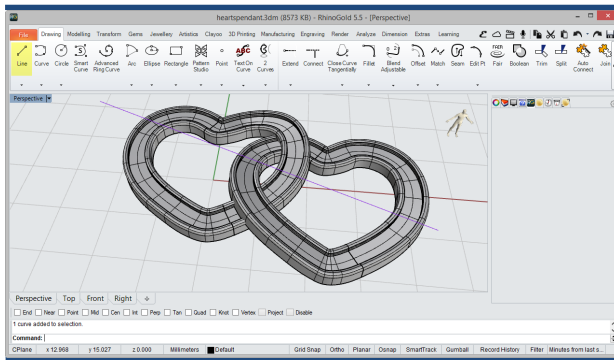

3 ## Edit Control Points

Now, we'll select the Edit Control Points tool, in the Drawing tab and will rise selected points shown in the image.
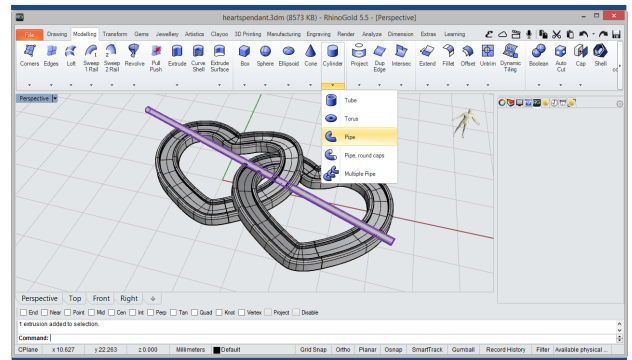

4 ## Dynamic Profile

In this step, we'll go to the Jewellery tab and apply the dynamic profile tool to the previously traced curves defining a profile of 1.50 mm x 2 mm.
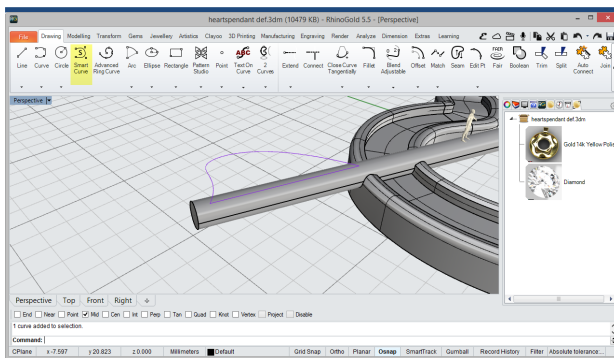
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5 Line

Then, we'll trace a curve through the two Dynamic Profiles with the Line tool, in the Drawing tab.
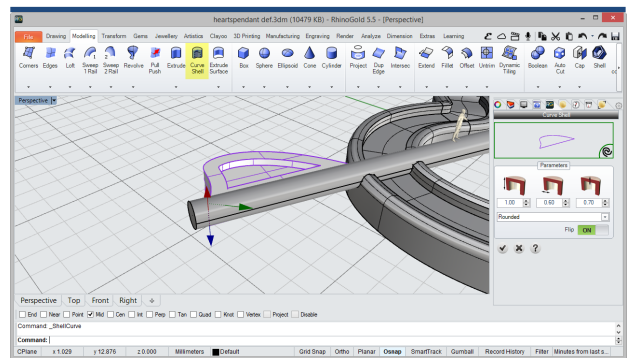

6 Pipe

In this step, from the Modelling tab, we'll define a solid of 1mm with Pipe tool, selecting the curve of the previous step.
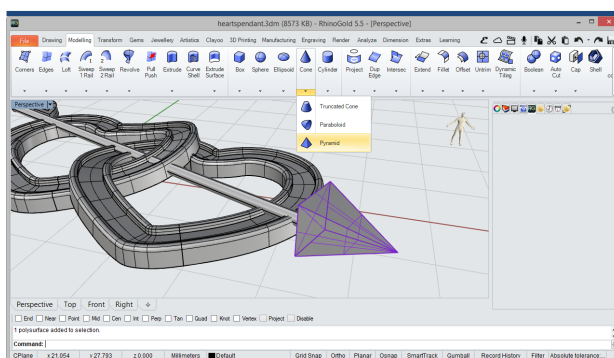

7 Smart Curve

Now, we'll trace a curve of similar form to that shown in the image, with the Smart Curve tool, in the Drawing tab. We'll position it of the same manner that the image.
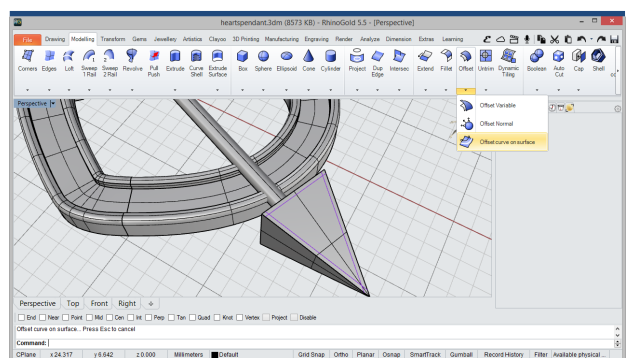

8 Curve Shell

Then, we'll select the Curve Shell too, in the Modelling tab, and apply it on the curve traced above.
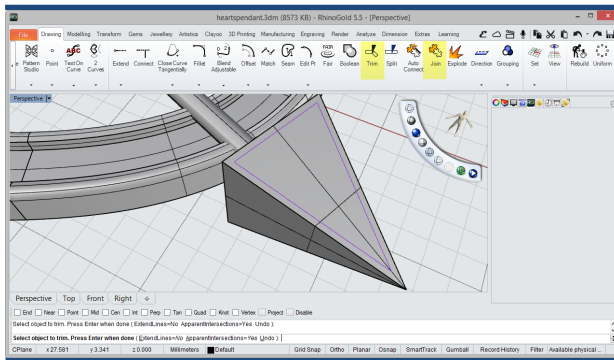

9 Pyramid

In this step, we'll define a pyramid-shaped solid and will position it at the end of the pipe, we'll use the Pyramid tool, within Cone submenu, in the Modelling tab.
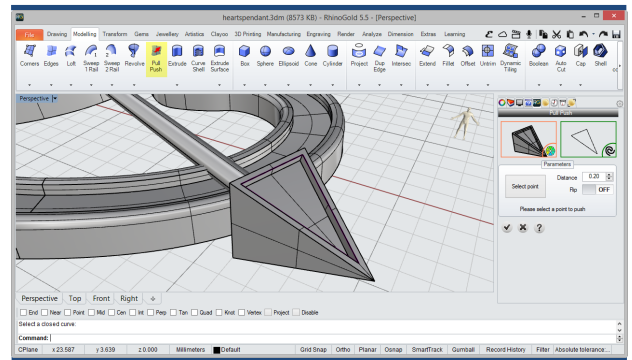

10 Offset Curve on Surface

Now, we'll apply the Offset Curve on Surface tool on the pyramid edges . We'll find this tool in the Offset submenú, in the Modelling tab.
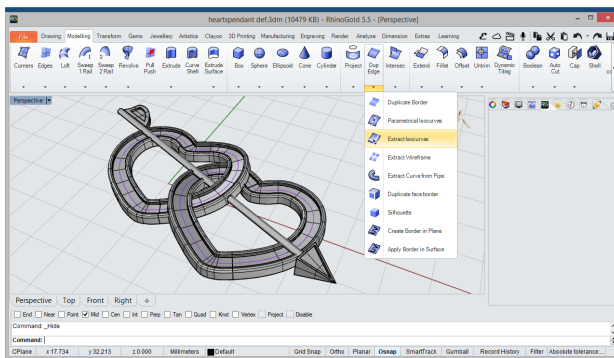
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11 Trim / Join

Then, we'll apply the Trim tool on the curve intersections and join them with the Join tool, in the Drawing tab.
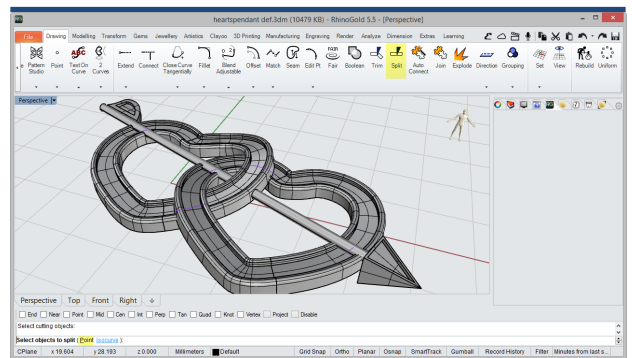

12 Pull Push

In this step, we'll select the Pull Push tool, in the Modelling tab and apply it to the pyramid.

13 Extract Isocurves

Now, withini the Duplicate Edge submenu, in the Modelling tab, we'll select the Extract Isocurves tool and extract the central curves of the Dynamic Profiles.


14 Split

Then, from the Drawing tab, we'll apply the Split tool on the extracted curves. We'll activate the Point option to section curves in parts, as shown in the picture. Remove the parts of the curve that intersecting with the solids.
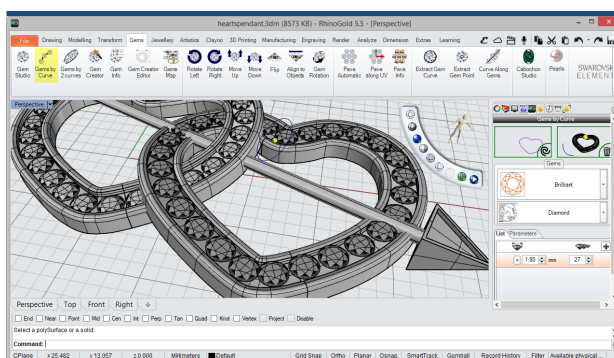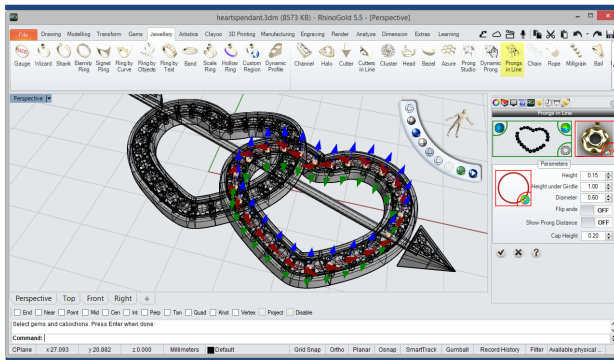

15 Gems by Curve

In this step, from the Gems tab, we'll select the Gems by Curve tool and apply it on the extracted curves, defining Gems of 1.70mm.
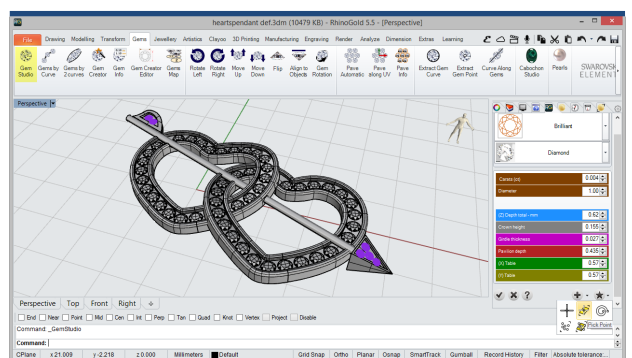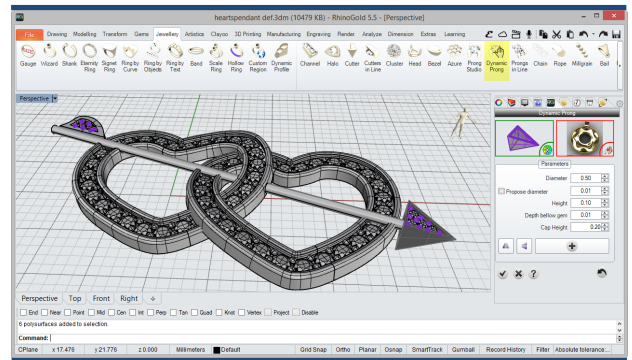

16 Gem Studio

Now, we'll define gems in the two remaining solids using the Gems Studio, we'll activate the Orient by Surface option.
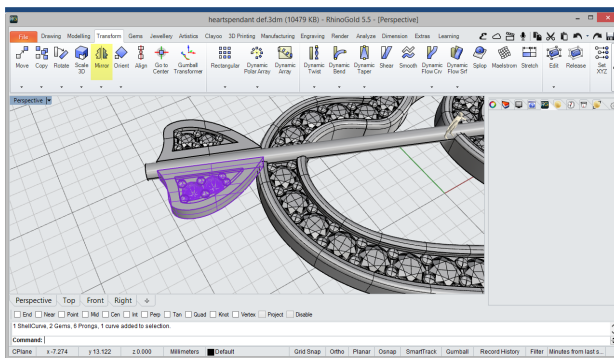
17 Prongs in Line

Then, we'll define the prongs of the Gems located in the dynamic profiles with the Prongs Inline tool, in the Jewellery tab.
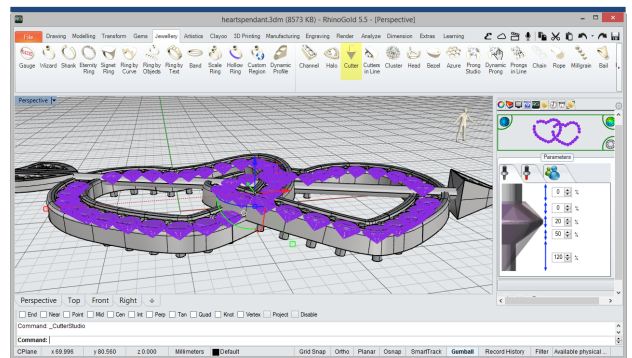

18 Dynamic Prong

In this step, we'll define the prongs in the gems of the remaining solids with the Dynamic Prong tool.
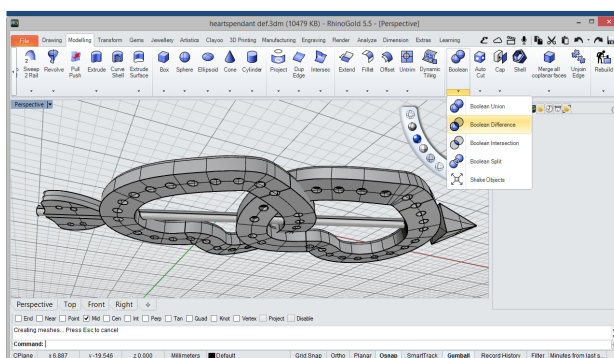

19 Mirror

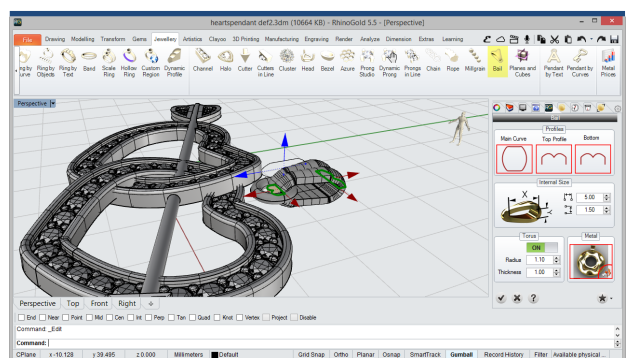Now, we'll apply a Symmetry to the extruded solid at the extreme from the Transform tab.

20 Cutter

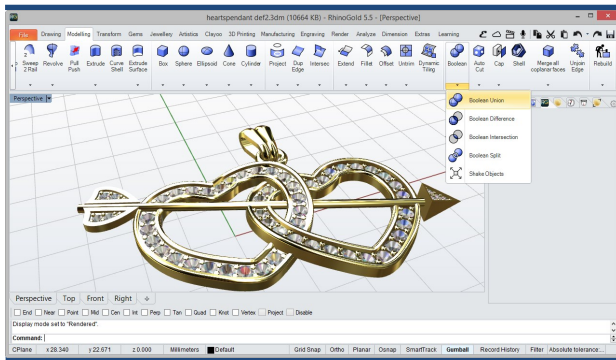Then, we'll define gems cutters with Cutters tool, in the Jewellery tab.

21 Boolean Difference

In this step, we'll apply a Boolean Difference between cutters and dynamic profiles to subtract them from the surfaces.

22 Bail

Now, we'll select the Bail tool, in the Jewellery tab and define a solid as the picture shows.

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23 **Boolean Union**

Finally, we'll apply a Boolean Union to unite all solids.