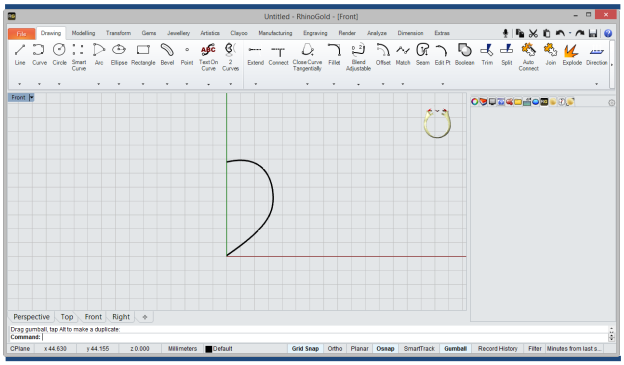
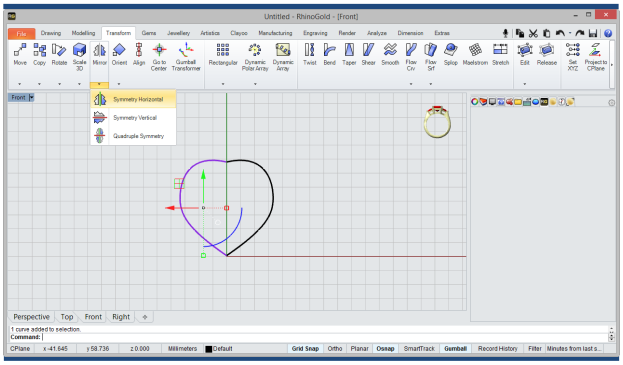
Raspberry Pendant

In this tutorial we will try out some of the most useful commands in RhinoGold. Tools as Clayoo, Pave Automatic, Smart Curve, Symmetry and Copy by Gems.



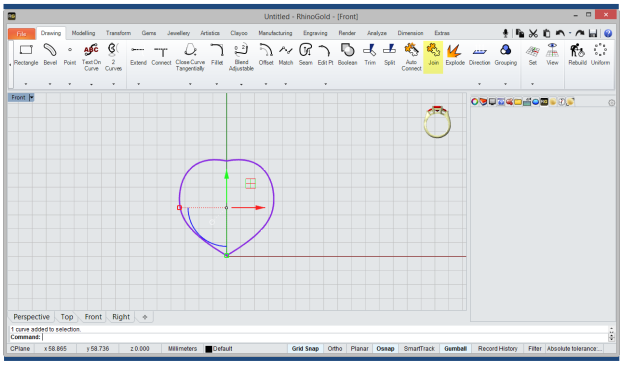
1 Smart Curve

First we'll trace a curve 35mm high and 15 mm of width regard to the axles, Smart Curve tool in the Drawing tab.



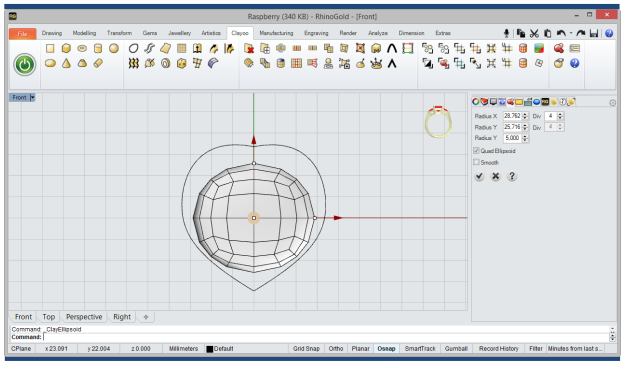
2 Simmetry Horizontal

Now, we'll apply a symmetry to the curve with the Symmetry Horizontal tool in the Transform tab.



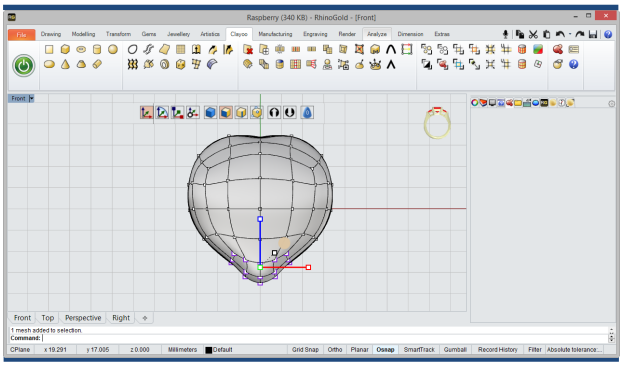
3 Join

Then, we'll link the two curves with the Join tool on the Drawing tab.



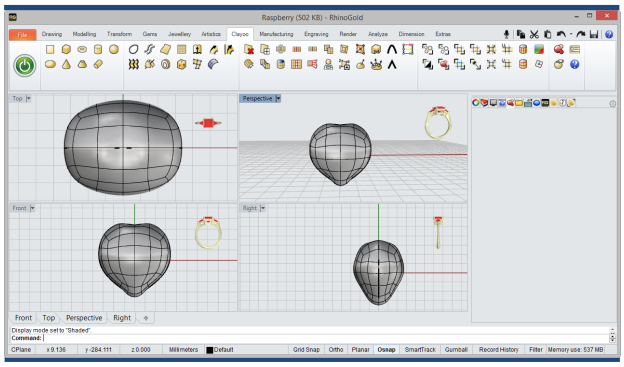
4 Clayoo: Sphere

In this step, we will go to Clayoo tab and we'll activate it then define a solid with the sphere tool.



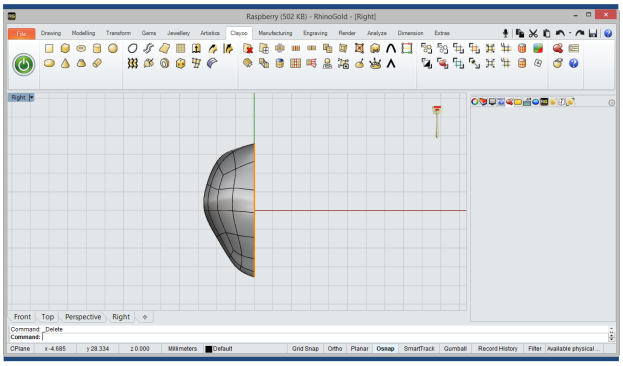
5 Clayoo: Modeling

Now, we will model the sphere taking into reference the curve created at the beginning, use selection tools and Gumball options that appears when you turn Clayoo for modeling of the object.



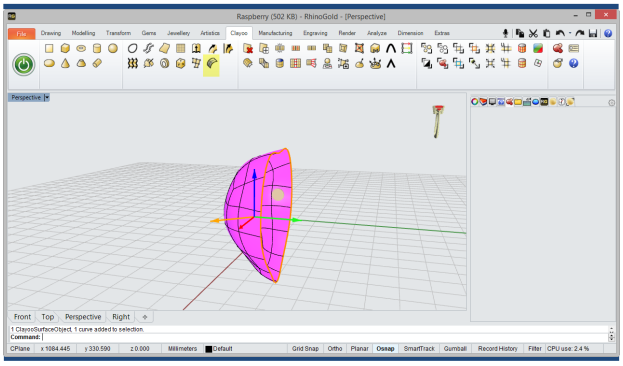
6 Clayoo: Modeling

The result should be similar to the object represented in the picture above.



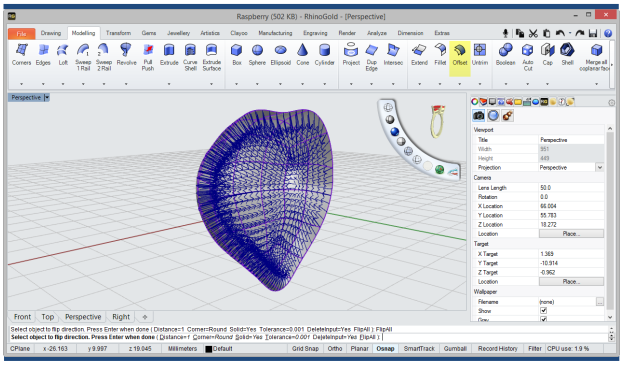
7 Clayoo: Delete

Then, we'll select the faces of half of the object and delete, getting a result as shown in the image.



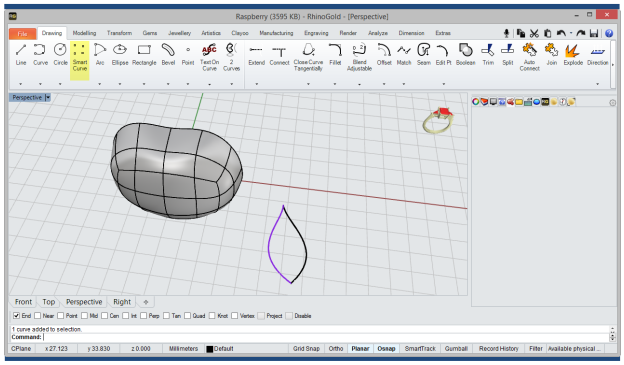
8 Clayoo: To Nurbs

Now, we'll select the Convert to Nurbs tool and apply it to the object.



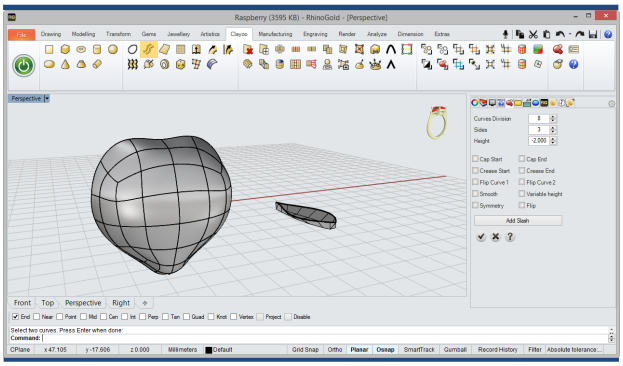
9 Offset

In this step we will leave Clayoo and we'll go to the Model tab and select the Offset tool, we'll apply this tool to the object and will respect the parameters of the command line.



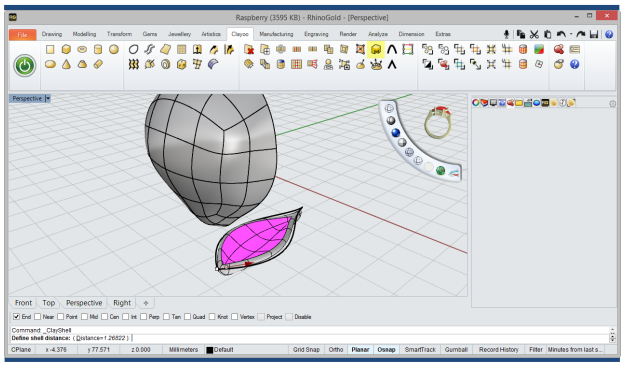
10 Smart Curve

Then, we'll select the Smart Curve tool and define a closed curve similar to that of the image.



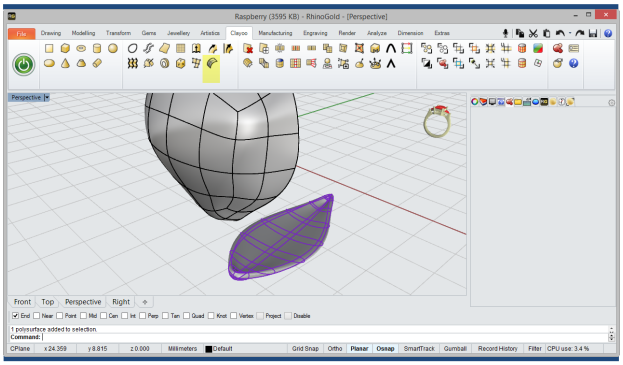
11 Clayoo: Create by 2 Curves

Now, we'll activate Clayoo again and select Create by 2 Curves tool and apply it to the curve created in the previous step.



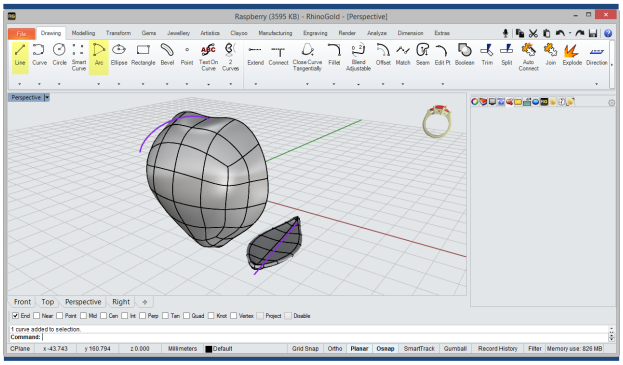
12 Clayoo: Shell

After we'll apply the Shell tool to the surface created in the previous step, define a thickness of 1 mm.



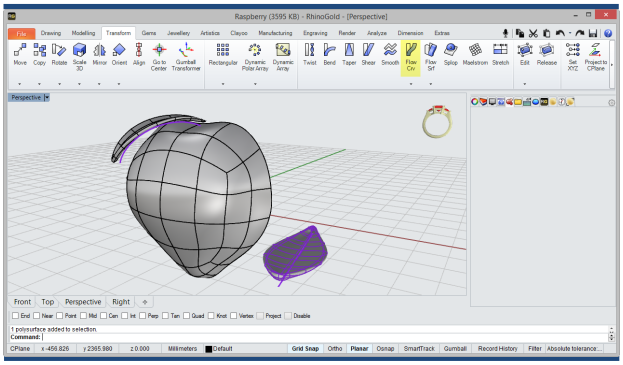
13 Clayoo: To Nurbs

Repeat the process with Convert to Nurbs solid obtained above.



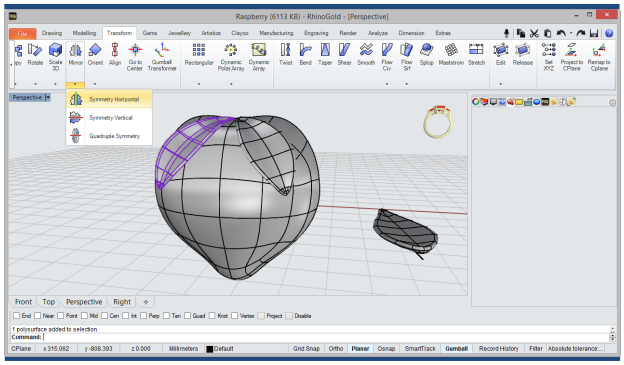
14 Arc/Line

In this step, we'll define two curves, an arc positioned at the top of the first solid and a straight located below the last solid, as shown in the image.



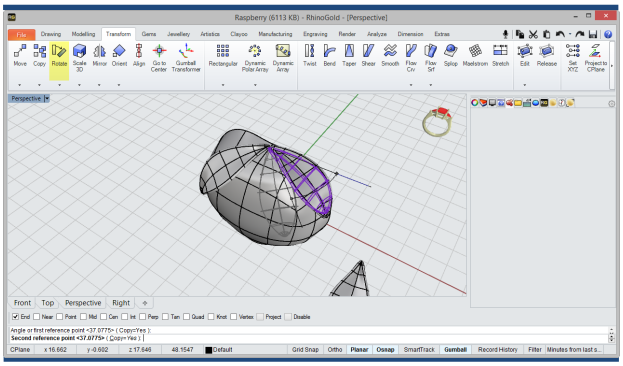
15 Flow Curve

Then, we'll select the two curves created in the previous step and the last solid created and apply the Flowing Curve tool, obtaining the same result as shown in the image, the second solid above the first.



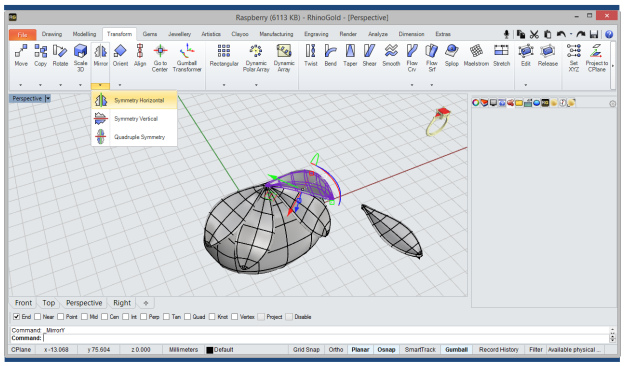
16 Simmetry Horizontal

Now, we'll apply a Symmetry Horizontal at the solid positioned at the top. It is important that all solid are touching each them.



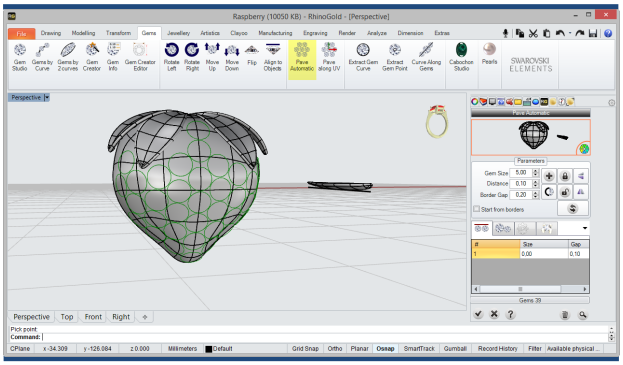
17 Rotate

Then, we'll select the Rotate tool and we'll apply it the above solid, with the copy option activated on the command line.



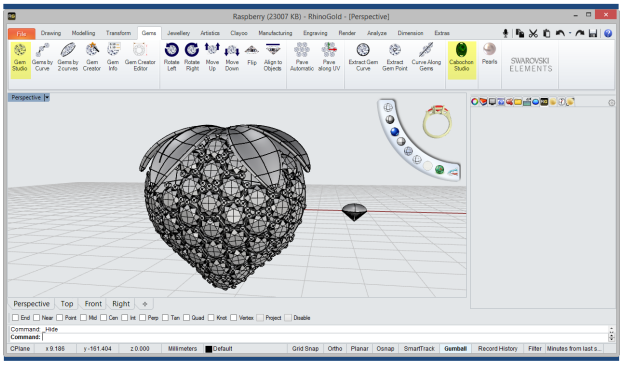
18 Symmetry Horizontal

Now, we'll apply a Symmetry to the solid copied, obtaining a result as shown in the image.



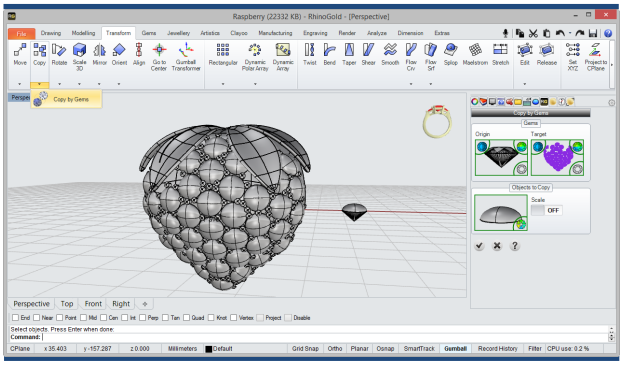
19 Pave Automatic

Then, select the Pavé Automatic tool in the Gems tab and apply it in the first solid created with gems of 5 mm in diameter.



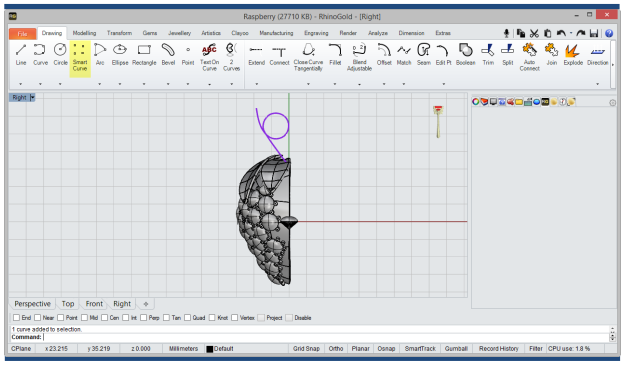
20 Gem Studio/Cabochon Studio

In this step, we'll define a Gem of 5 mm in diameter with a Cabochon located above the same diameter and 2mm high. These gems we'll define it with the Gem Studio tool and Cabochon tool, within the Gem tab.



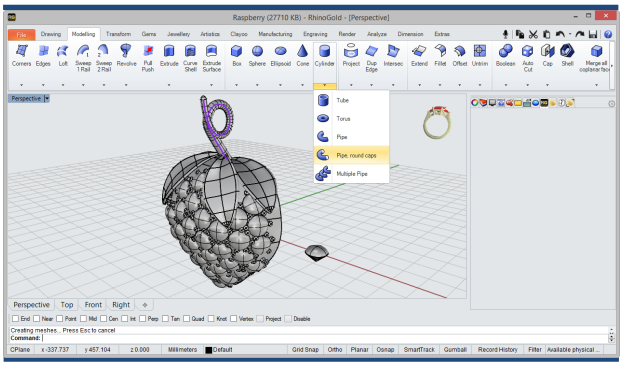
21 Copy by Gems

Now, select the Copy by Gems tool, in the Transform tab and apply between gems created in the previous step and Pavé gems, as shown in the image above.



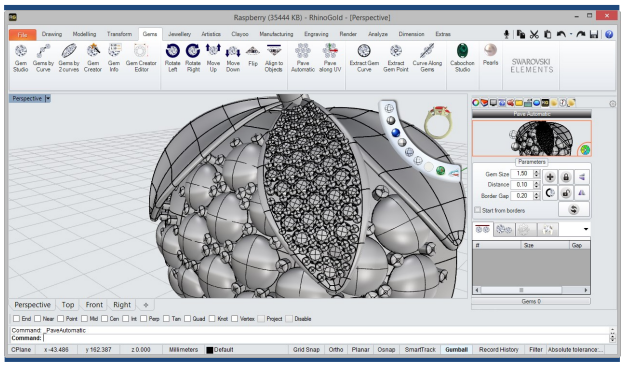
22 Smart Curve

Then, We'll define a similar curve to which it shown in the image above, with the Smart Curve tool in the Drawing tab.



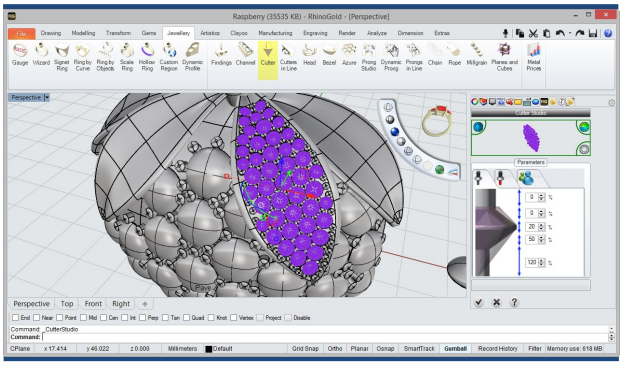
23 Pipe, Round Caps

Next, we'll define a pipe to the curve created in the previous step, with the Pipe, round caps tool, on the Modeling tab, with 2 mm in diameter at the bottom i 1.5 mm at the top.



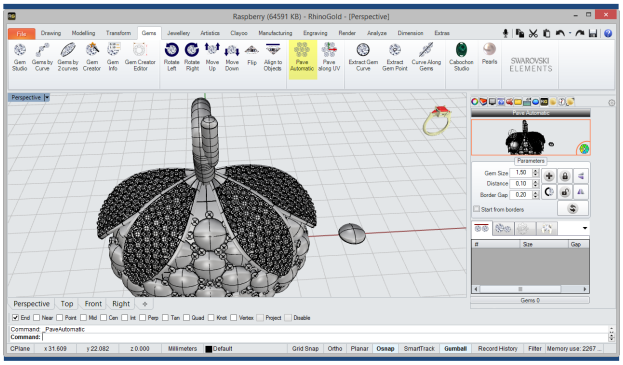
24 Pave Automatic

Now, we'll select the Automatic Pavé tool and apply in one solid of the top, with gems of 1.50 mm maximum.



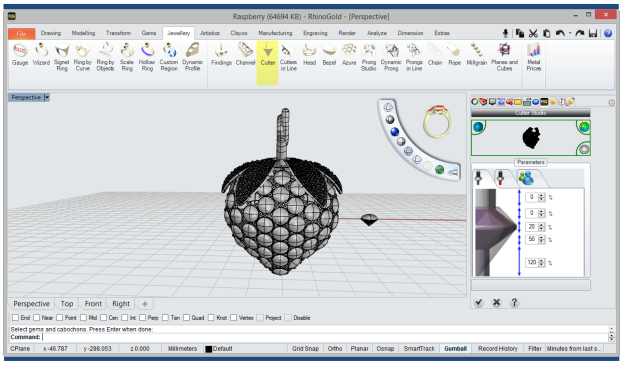
25 Cutter

In this step, we define the gems Cutters with Cutter tool, in the Jewellery tab.



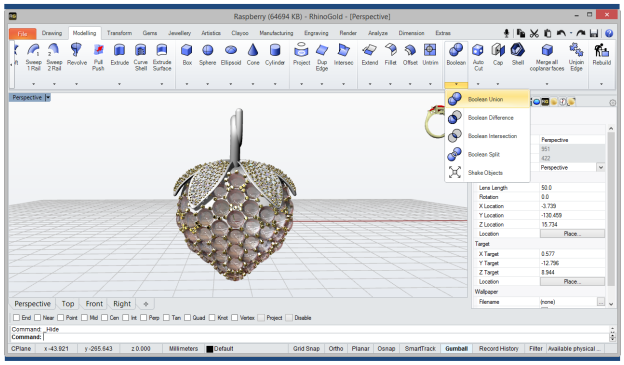
26 Pave Automatic

Then, we'll apply a Pave to all top solids with the Pave Automatic tool, withs gems of 1.50 mm maximum.



27 Cutter

Now, we'll select the Cutter tool and we'll apply it to as large Pave gems, as pictured above.



28 Boolean Operations

Finally, we'll apply a Boolean Difference to cutters for subtract from the surfaces of solids and then unify all solids with a Boolean Union.