TDM Solutions:

www.tdmsolutions.com

2009

Background

TDM Solutions is a company that provides CAD/CAM solutions to a variety of industries, focusing in jewelry, and also including the automotive, casts and molds, prototype, footwear and general mechanical industries.

Developer of design and manufacturing applications, enhancing RhinoGold, and others as RhinoMold, RhinoNest and RhinoShoe.

TDM Solutions was founded in 2001 and the headquarters are in Barcelona, Spain.

Nowadays is working over 25 countries with more than 70 resellers.



What is RhinoGold?

RhinoGold is the preferred software for jewelry design and manufacturing.

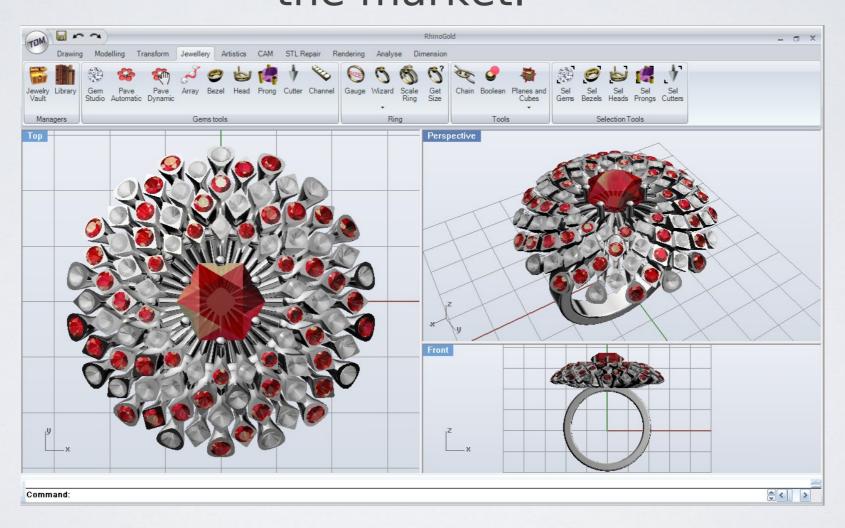
RhinoGold makes it possible for jewelry designers and manufacturers to fully modify and manufacture jewelry precisely but quickly without sacrificing a clear and intuitive interface that both simplifies and cuts down learning time.

Now easier, faster and more powerful thanks to Fleximetrical Technology.





With such tools as Gem Studio, Automatic and Dynamic Pave, the Head Studio, the Bezel Studio, the Ring Wizard, the Ring Scaler, the Channel Studio, Tools for calculating metal and gem weights, the CAM export Assistant, the STL Repair Assistant, and many more, has become one of the most powerful 3D design solutions on the market.

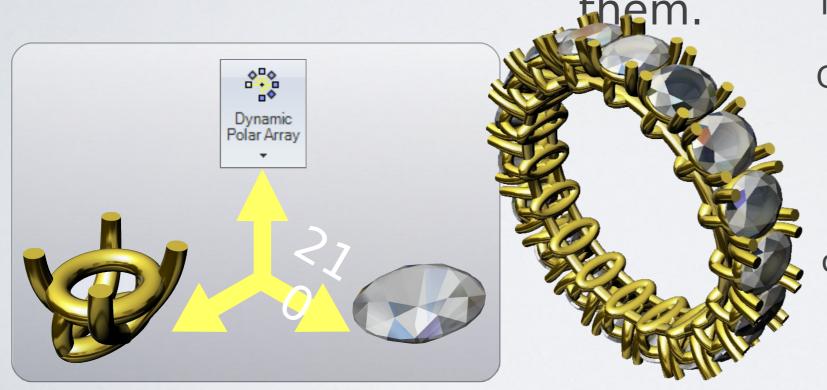


Advantages of RhinoGold

- It is a jewelry specific software designed by jewelers for jewelers.
- Quick to learn, intended to reduce the time taken for the learning curve.
 - Easy and agile, the tools have a real-time preview function.
- Precision and professionalism in all stages of modeling, making it ready to use for manufacture.
- A multitude of advanced tools for experts in the field, intended to cover all the steps of production from initial design to manufacture, not to forget tools for presenting the designs and creating catalogues...
- Includes basic rendering and real-time renderer, all compatible with other renderers such as Flamingo, Penguin, Hypershot, VRay, Brazil and others...
 - An affordable price and no maintenance fees.
 - The possibility to attend classroom or online

This new technology developed by TDM Solutions allows creating parametrical objects to be edited without the complexity of the standard linear parametric tree of parametrical softwares.

The fleximetrical objects and the transformation are editable independently, and create relation between



To create this sample ring we used this three commands: Gem Studio, Head Studio and Dynamic Polar Array.

We can edit the parameters of the array, numbers objects,... Gem size or shape or head parameters, and automatically upgrade your model

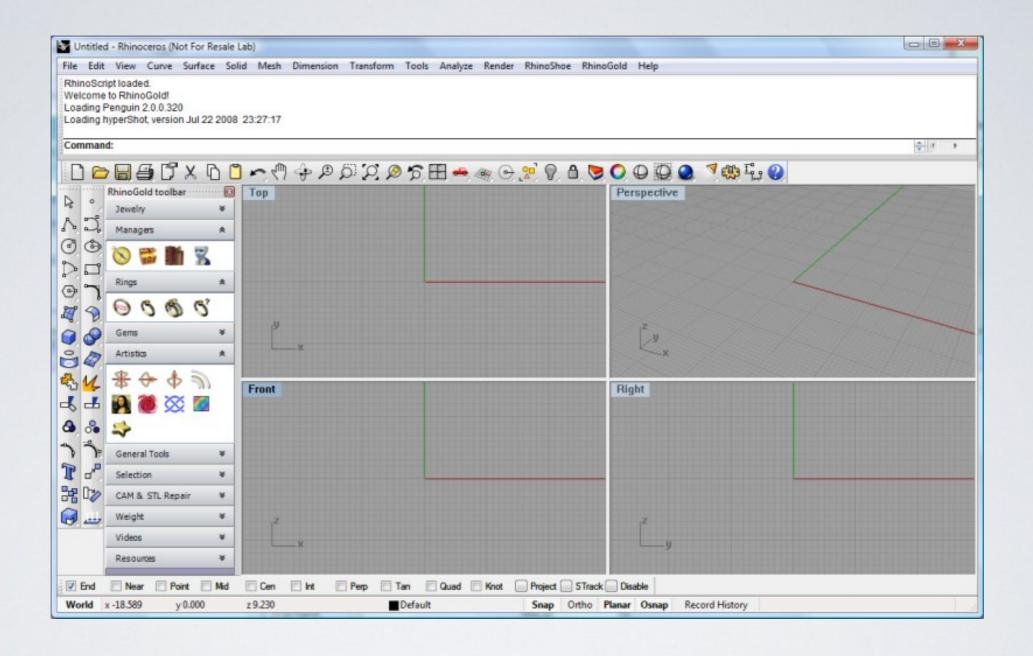
Can you imagine how many combinations you can create in seaches?

Two interfaces in one solution



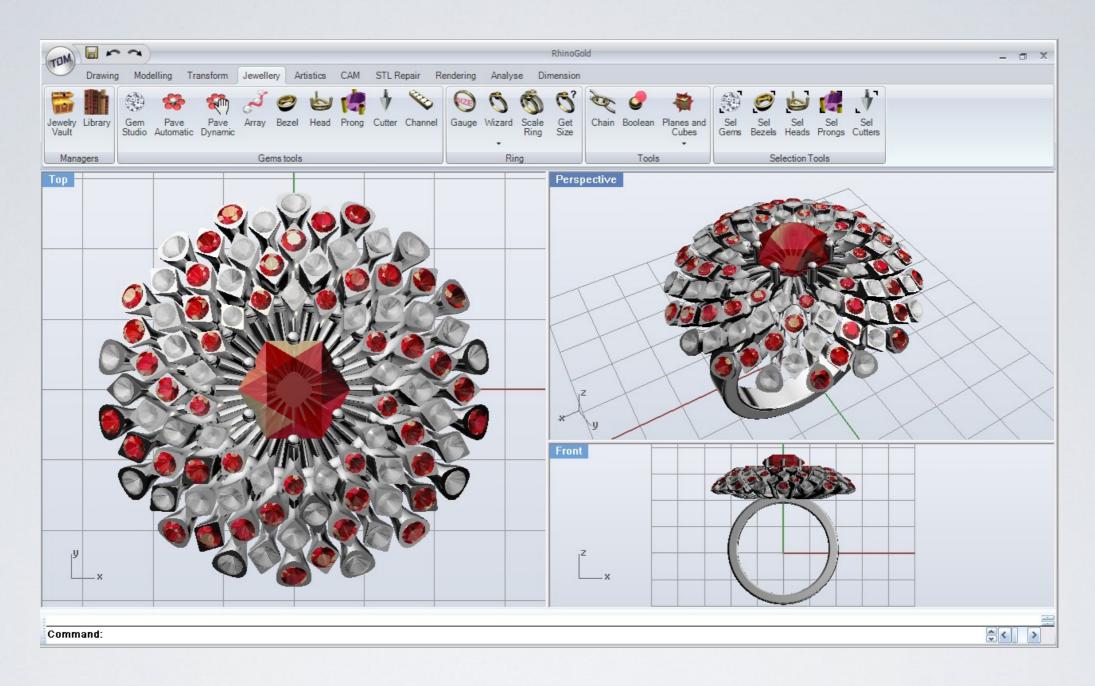
RhinoGold® allows to use two interfaces, one for Rhino users and other for non Rhinoceros users.

Rhinoceros Interface



Completely integrated in Rhinoceros as a plug-in

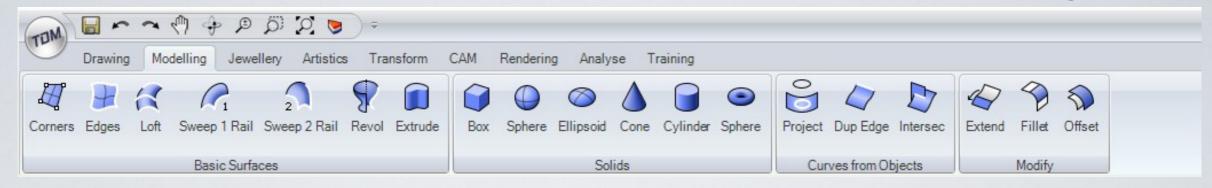
RhinoGold Interface



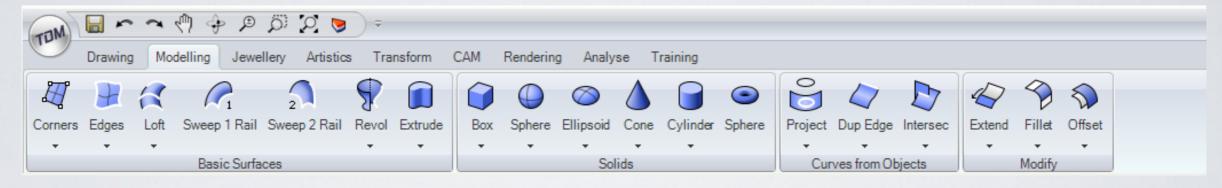
Interface for jewelry designer and manufacturers

Adaptable Interface

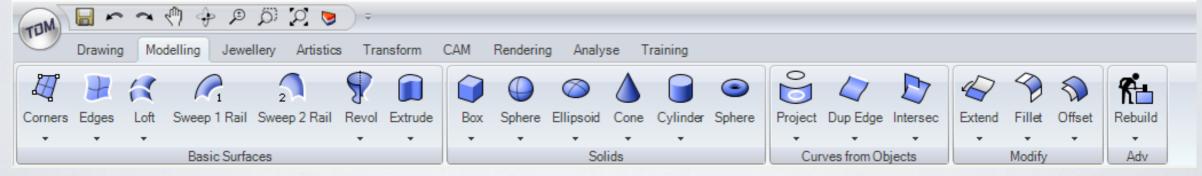
Beginners



Medium

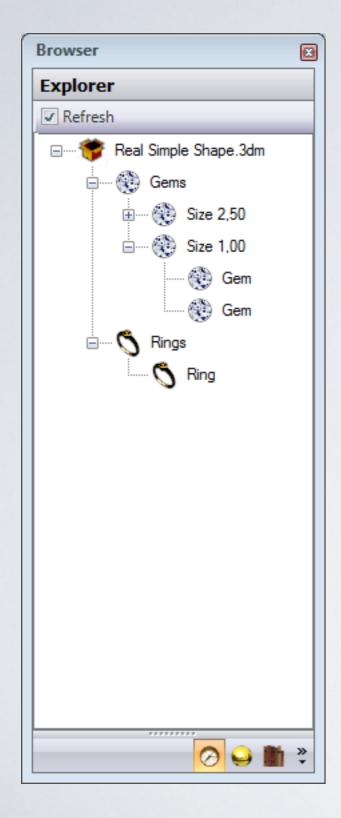


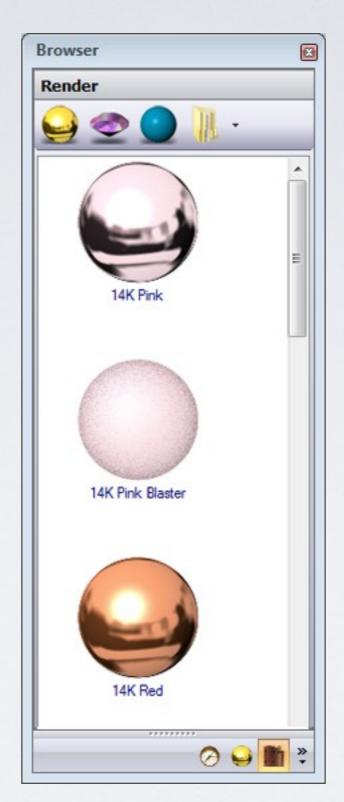
Experts





The Browser







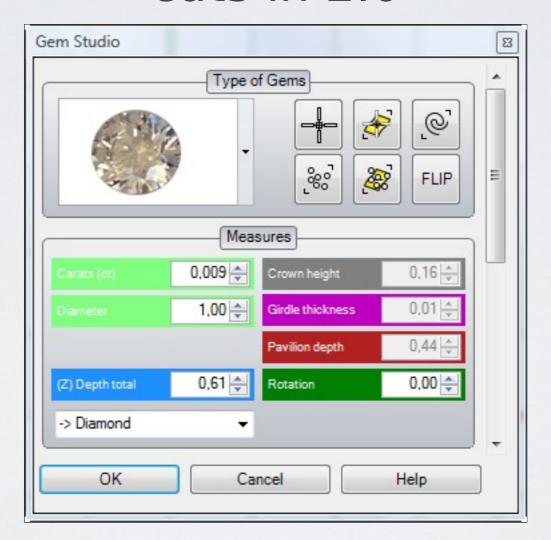


Jewelry Tools



Gem Studio

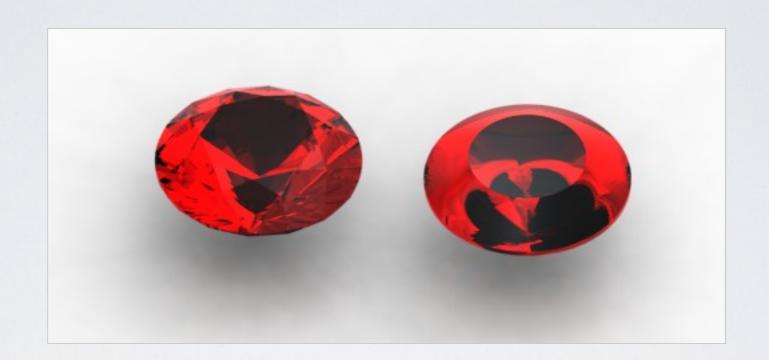
Gem Studio allows us to place different stone cuts in our models in accordance with the GIA (Gemological Institute of America) and custom sizes. New stones cuts in 2.0



Performance Optimization for Gems



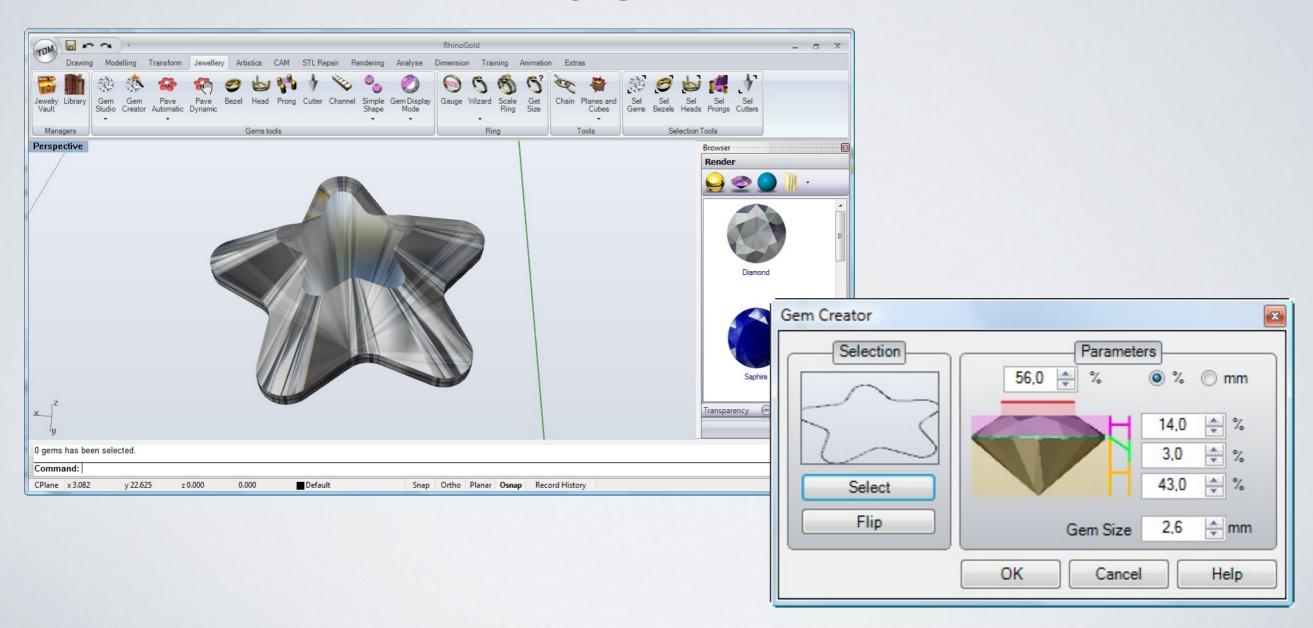
This functionality simplify the gem shape, it improves x24 the performance. Convert in one click to simple shape, and real shape.



Comparison: 200 gems in 2.0 is so light as 8 gems in 1.0

This tool allows us to create any gem shape using a curve.

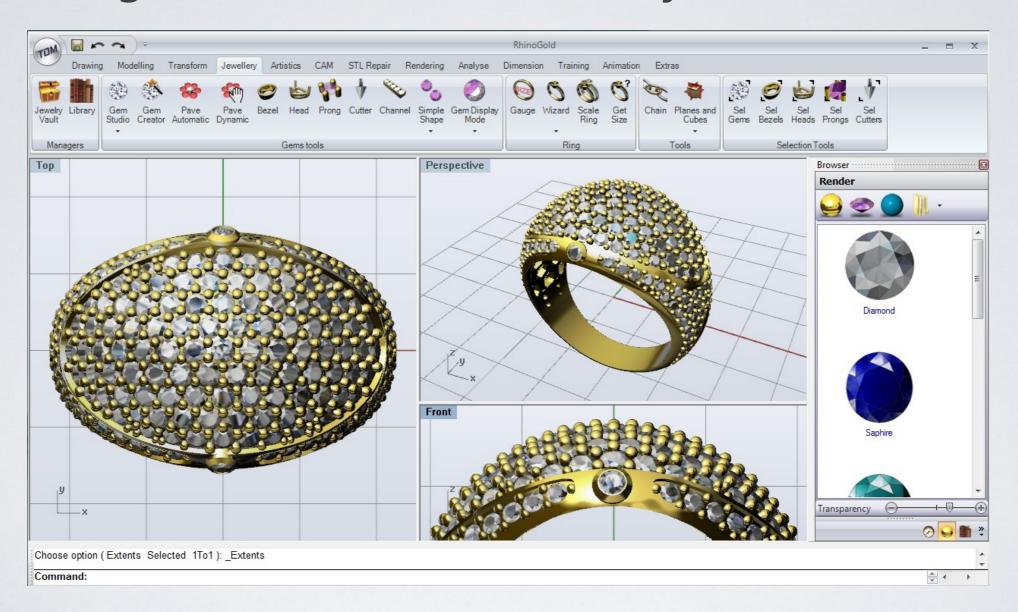
This new functionalities break any limitation using any gem cut.





Paves

RhinoGold offers a powerful tool for pave design, in automatic and dynamic mode.



Types of Paves



Automatic

Create actomatically a pave. We have the option to define one size or use our stock. Patterns available.

Pave UV

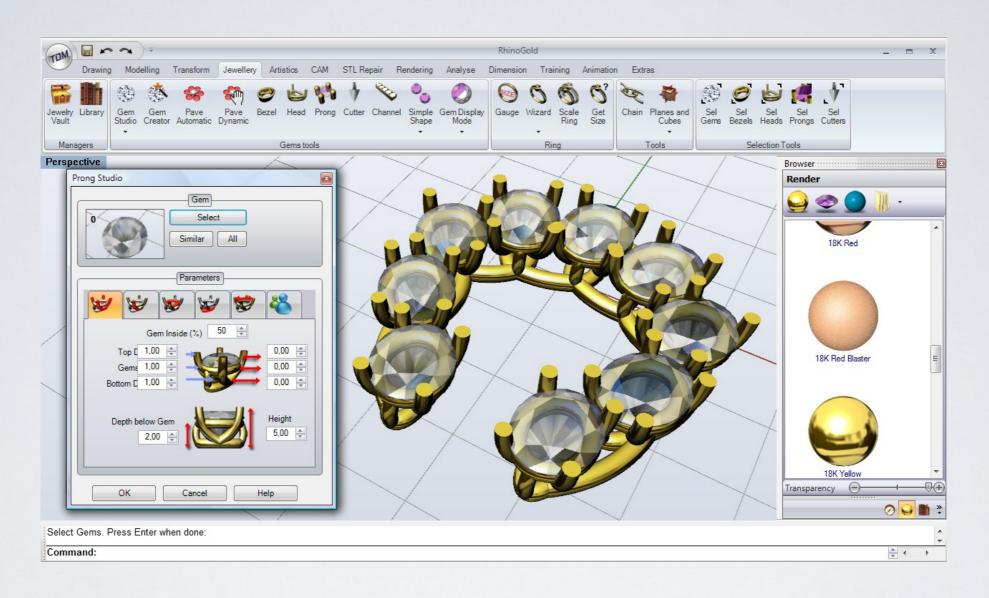
Create automatically a pave along the topology of the surface. We have the option to define one size or use our stock.

Dynamic Pave

Extremely useful to complement the automatic or advanced human paves.



Bezel Studio, Head Studio and Cutter Studio

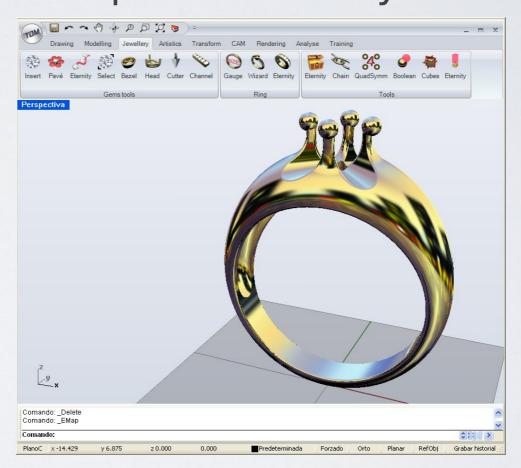




Ring Wizard

Ring Wizard Region: Europe Size Dia. 13,05 🜲 Circ. 41,00 🚖 Front View Current Profile SOUD Position 0.00 THICKNESS Rotation 0.00 0.01 Rotat, V Width 2,00 Height RESET INVERT DIRECTION Cancel Help

Wizard to create rings according to profiles. It is very quick and practical for new users and really powerful for advanced users. The rings are editable parametrically.





Ring Size Creator

RhinoGold creates the base circle, the starting point for modeling our ring, using standard measures from Europe, the UK, the United States and Japan.

Ring Size Creator		
Region: Europe		
Size		
	Diameter	0.00
1 2	Diameter	0,00
2	Circumference	0,00
5	Cylinder	0,00 🚖
6 🔻	Angle	0,00 🚖
ОК	Cancel	Help

Jewellery Vault and Library



Jewelry Vault makes it easy for us to manage our different models. In this way, users can create their own component libraries to use in future designs.

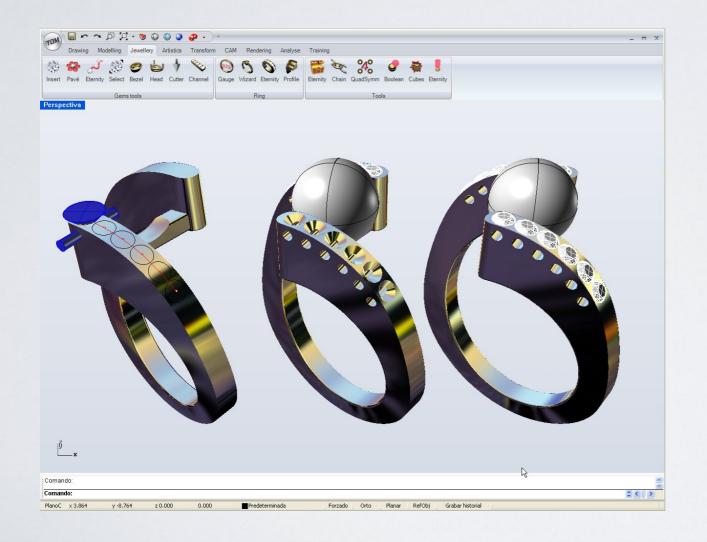
It is integrated to the browser and it is really interesting to create your own parametrical library.

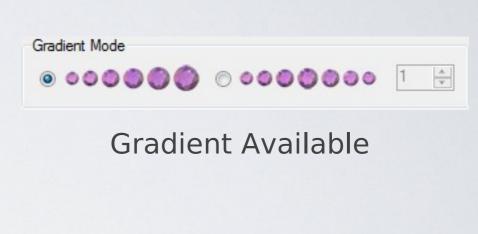


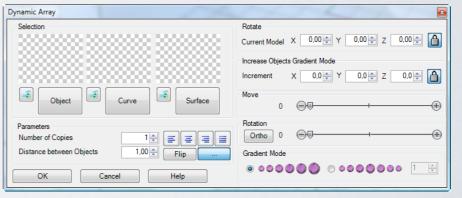


Linear Arrays

It allows us to create arrays both easily and dynamically and permits us to define advanced parameters, such as scaling, rotation, gradients...



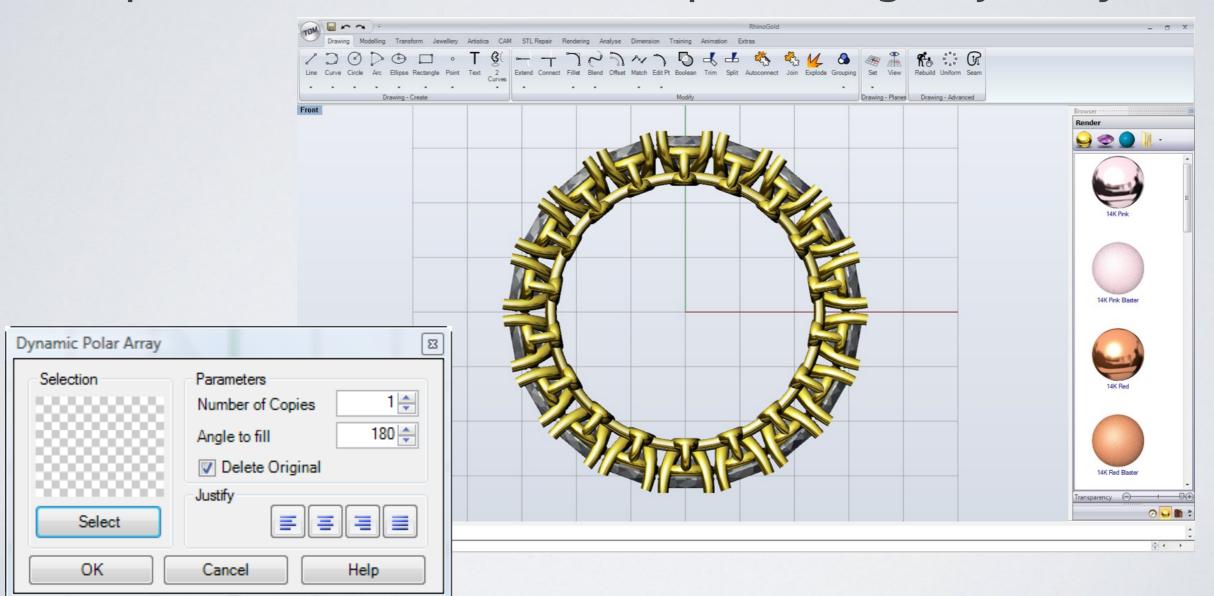






Polar Arrays

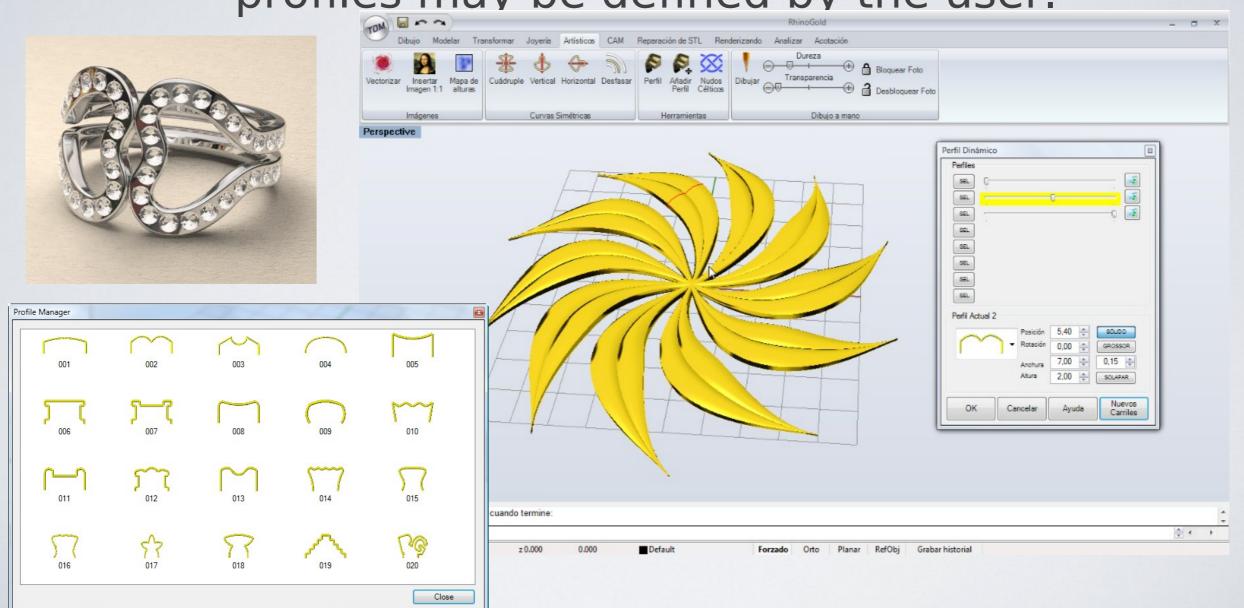
It allows us to create polar arrays easily and dynamically and permits us to define advanced parameters, such as copies, angle, justify...





Dynamic Profiles

This allows us to use our section library to move them, rotate them and change sizes. Very useful for creating any type of accessory in a matter of seconds. The profiles may be defined by the user.

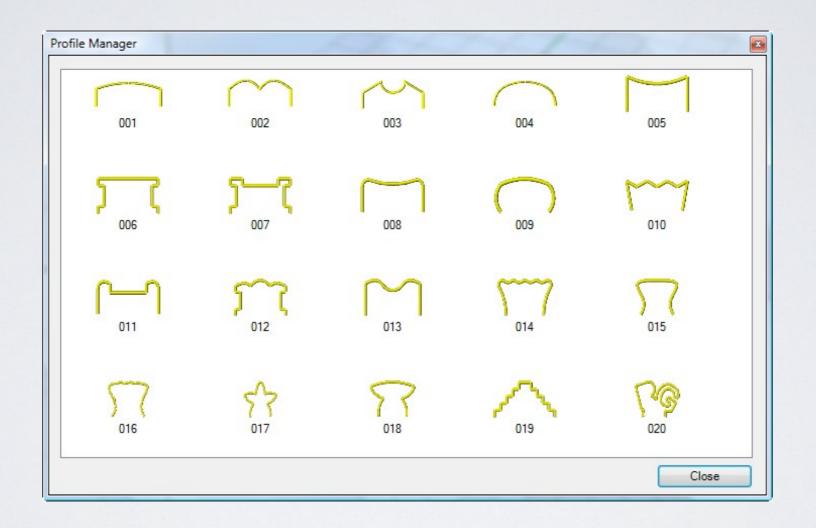


www.rhinogold.com



Profile Manager

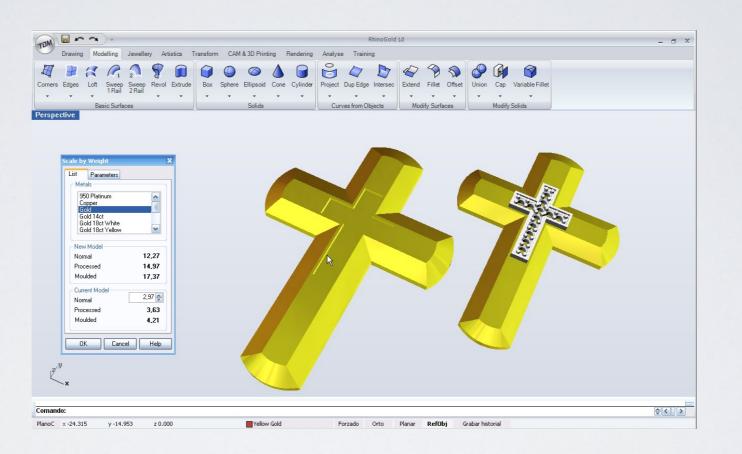
Now is really easy to manage your curve profiles.





Scale by Weight

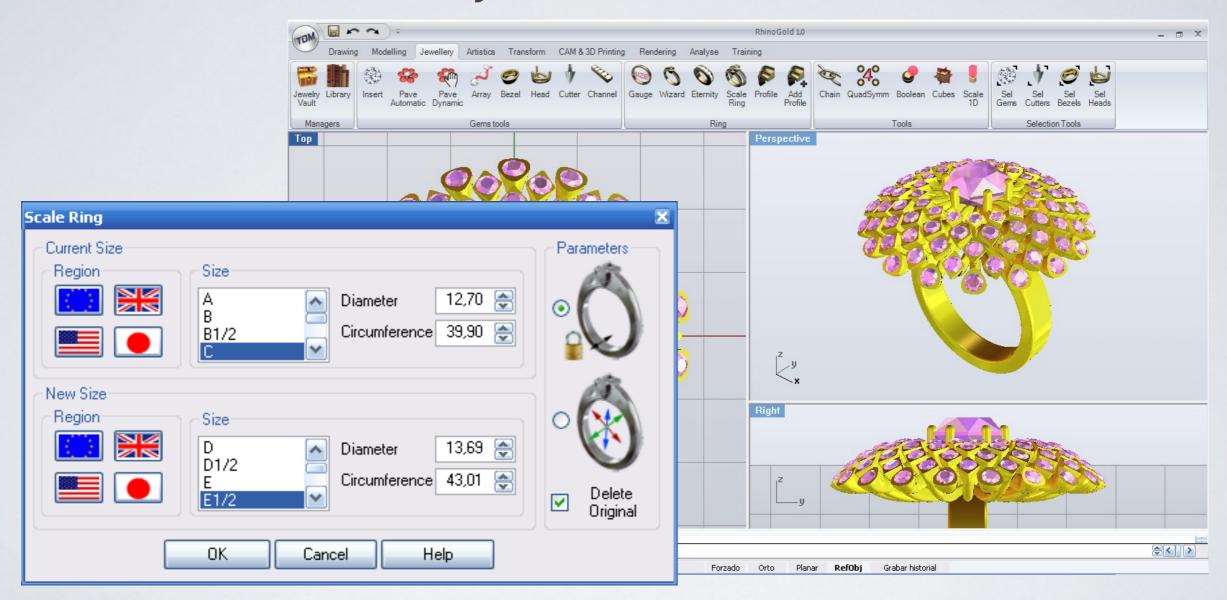
Scale by weight allows scaling just defining the new weight.





Scale Rings

Scale Ring allows us to scale one ring to other sizes just in one click.

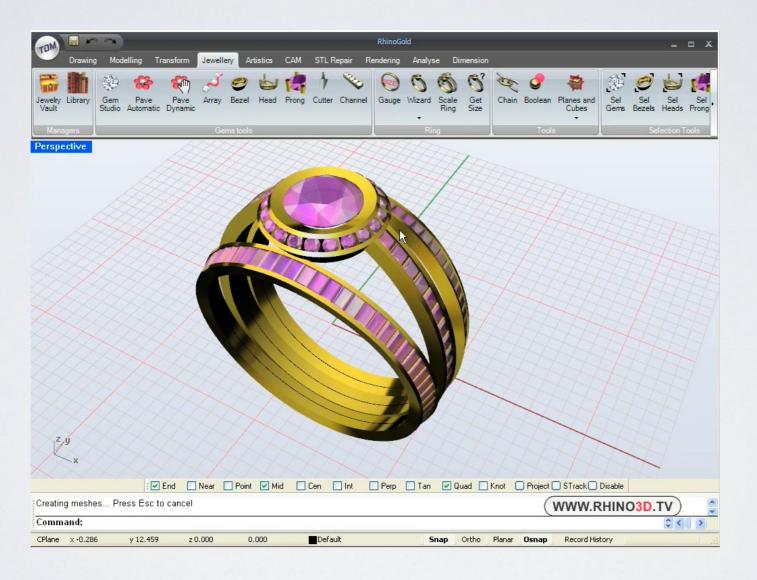






Channel Studio

Channel makes it easy for us to create channels from a curve on a surface.



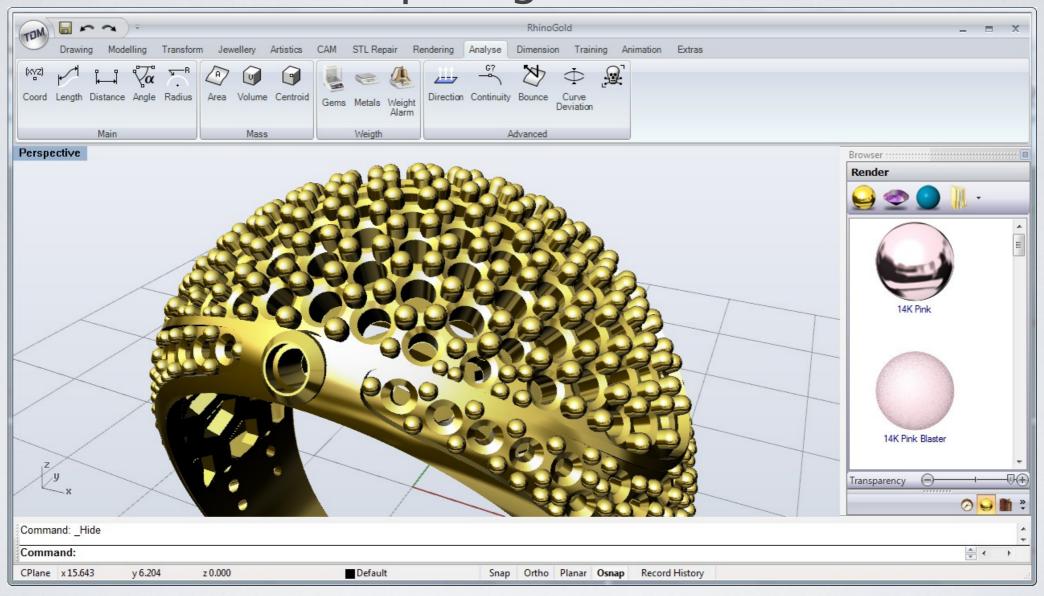
Courtesy of www.Rhino3d.tv





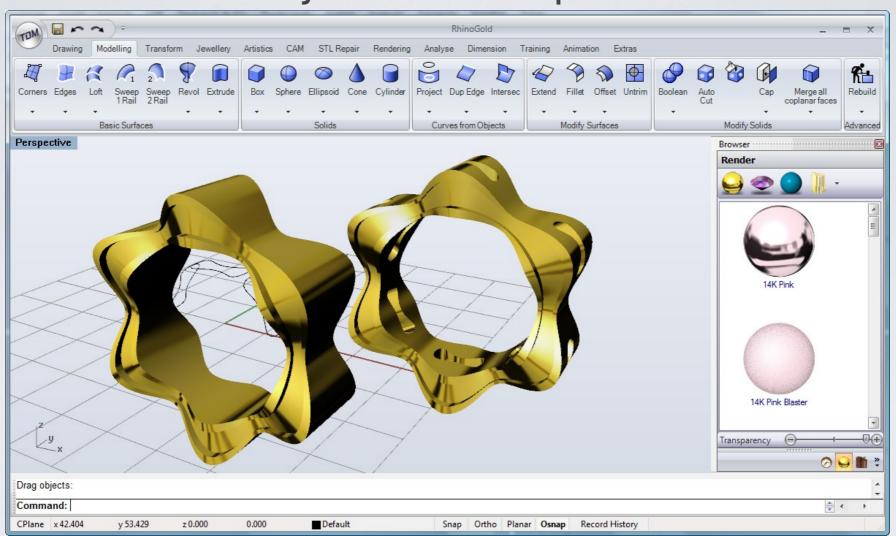
Copy by Gems

Powerful and easy tool to copy any object from stones. Useful for creating grain or complex prongs.



AutoCut & AutoFill

Allows cut 3D objects using curves. This tool reduces the process of extrude planar curves and Boolean difference in just one step.



AutoFill is the opposite function, it removes the cuts of the 3D objects.

Improve the effectiveness





Go to center



Autoconnect curves



Extract pipe center



Quadruple symmetry



Vertical symmetry



Horizontal symmetry



Curve from Gems



Render Gem Display Mode



Shaded Gem Display Mode



Wireframe Gem Display Mode



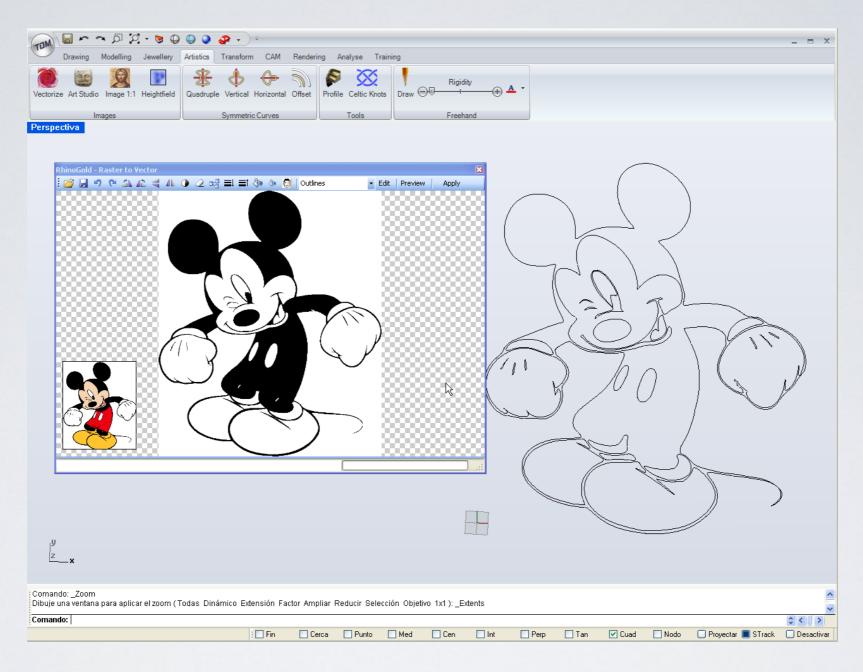
Extract Gem Base Curve



Offset In/Out



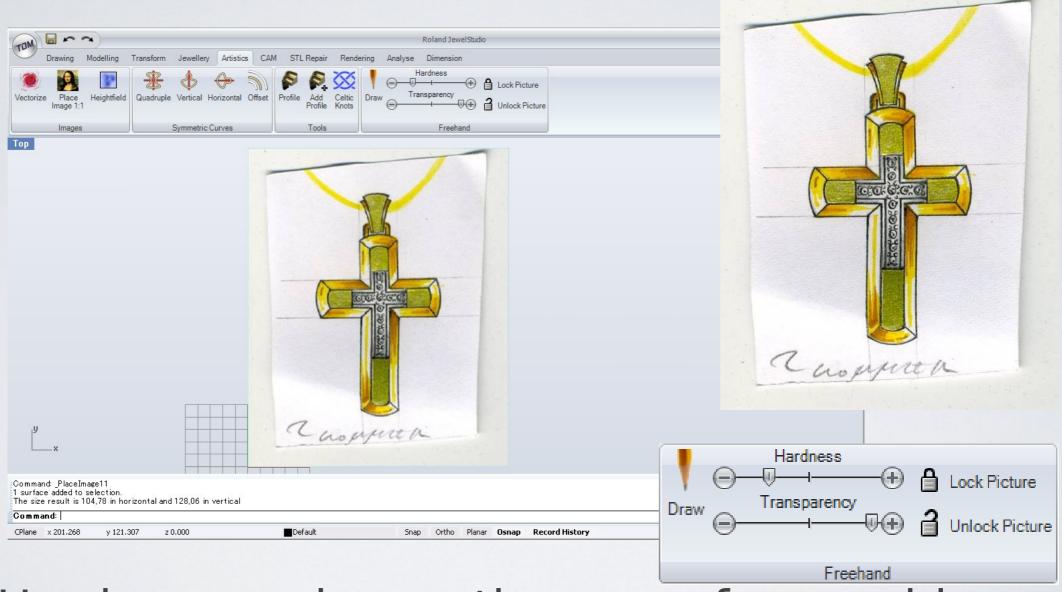
Raster to Vector



Convert images and hand drawings to graphic vectors, useful for 3D design, milling and engraving.

Place Image 1:1

We can import any sketch, drawing or image at 1:1 scale just in one click.



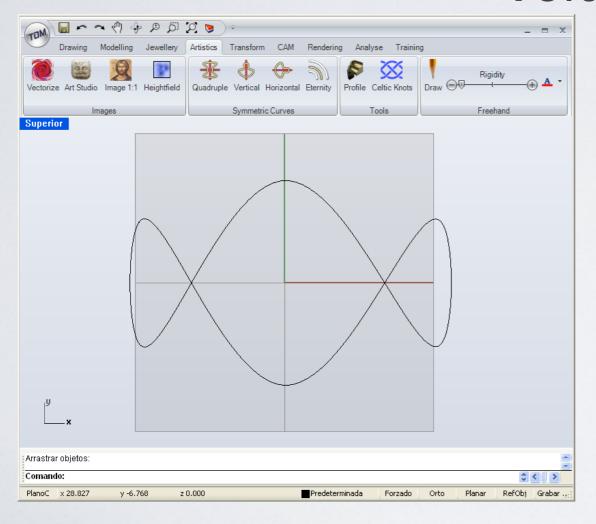
Hardness and smooth curves for graphic

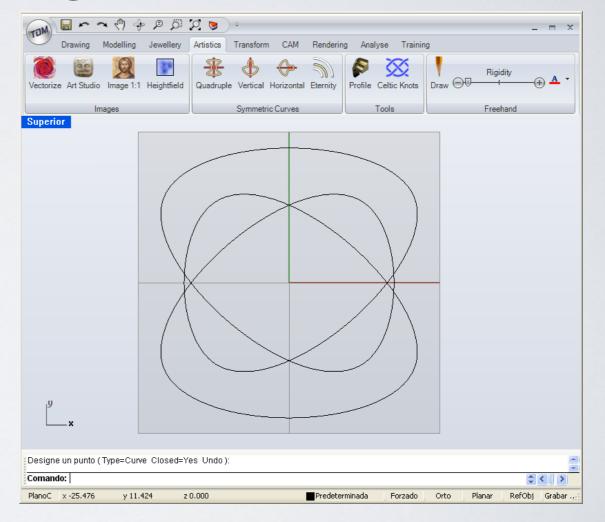
tablets. www.rhinogold.com



Symmetric curves

Jewelry manufacturers do not create a half and then copy it symmetrically. This is the reason for this tool, it is highly useful to get a sense of volume.

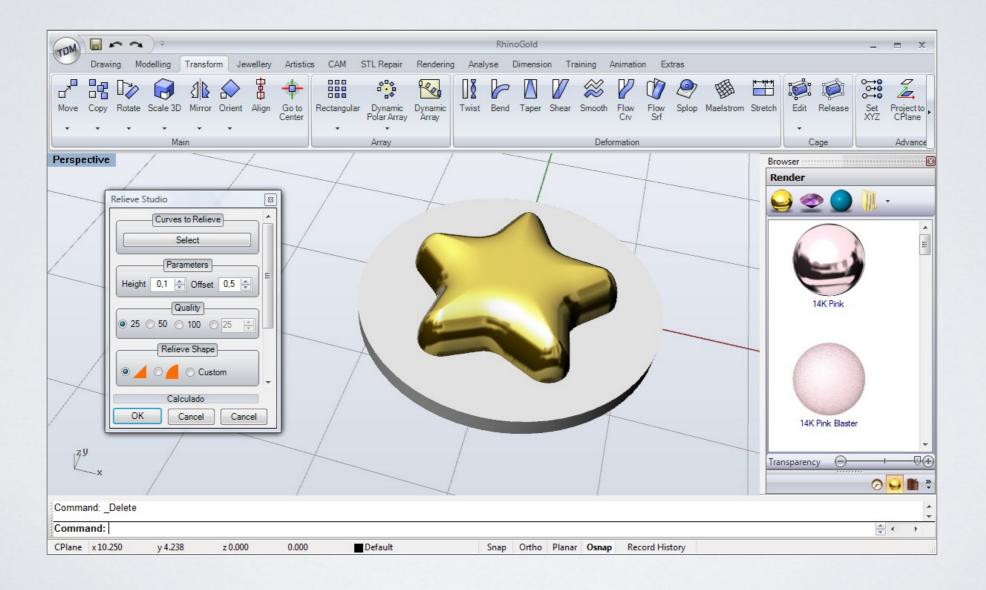






Relief Studio

This tool creates reliefs from curves. We have the option to define the relieve profile. The result can be created in meshes or surfaces.





Heightfield by Colors

Creates 3D models from pictures, but in color. Define a height for each color, and pumping on the transparency.









From an image, create easily a 3D texture on an object.

3D textures are fully manufactured because is a standard geometrical object.

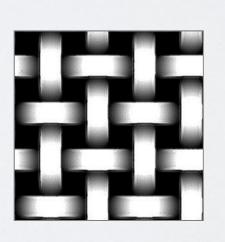
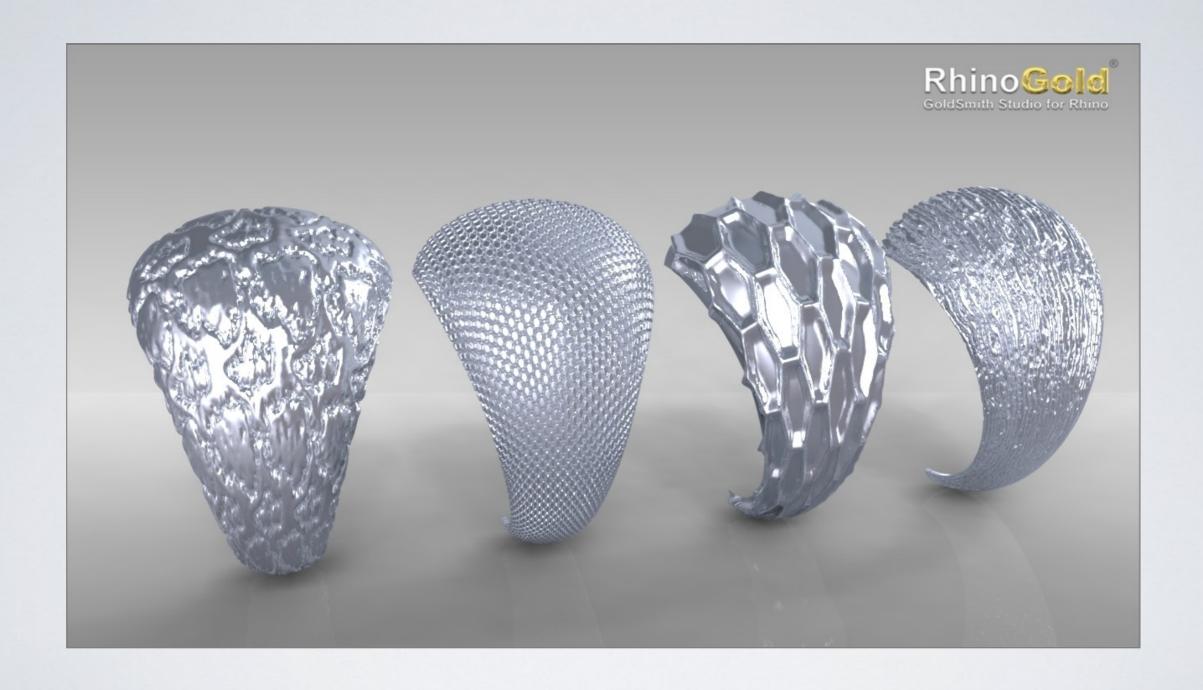


Image sample used in this sample in format jpeg.



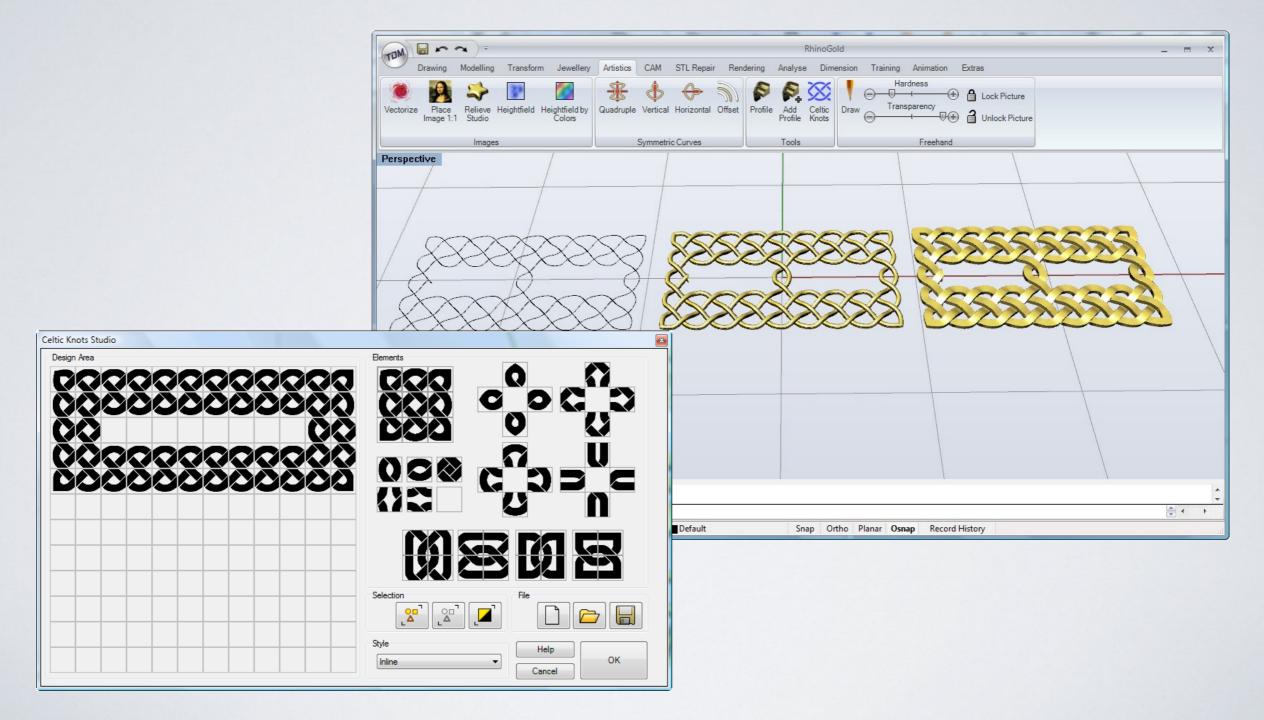
Textures 3D





Celtic Knots

Creates Celtic knots in 2D and 3D, in curve and solids





Manufacturing Tools



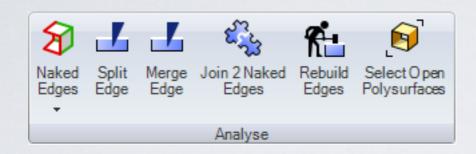
STL Repairing Wizard

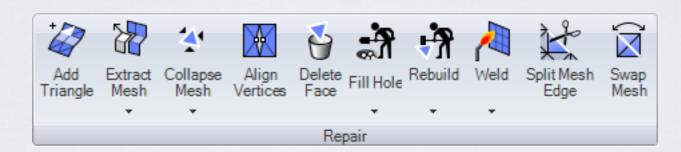
Wizard to repair and export geometry to STL for 3D Printers.





STL Repairing tools Allows Analyzing, Repairing and Modifying your





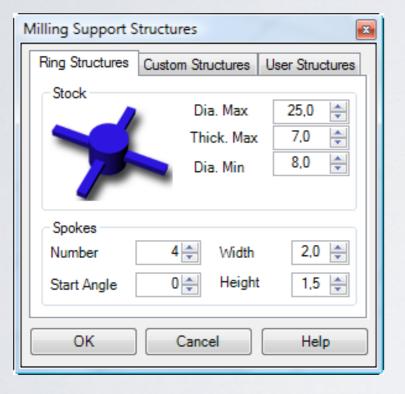


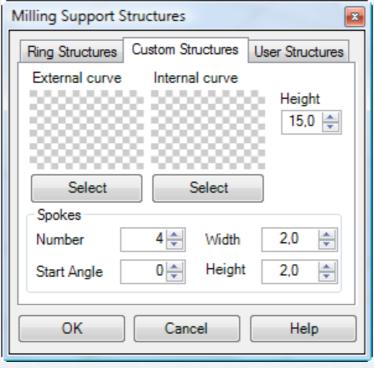


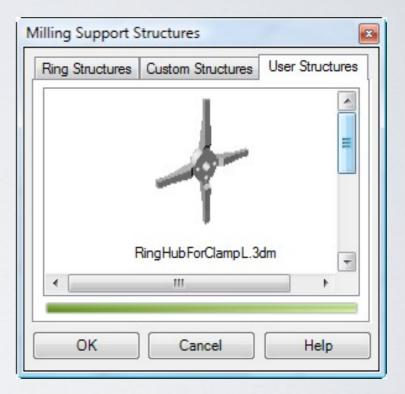
Milling Support Structures

Creates milling support structure standard and custom, and allows managing own designs.

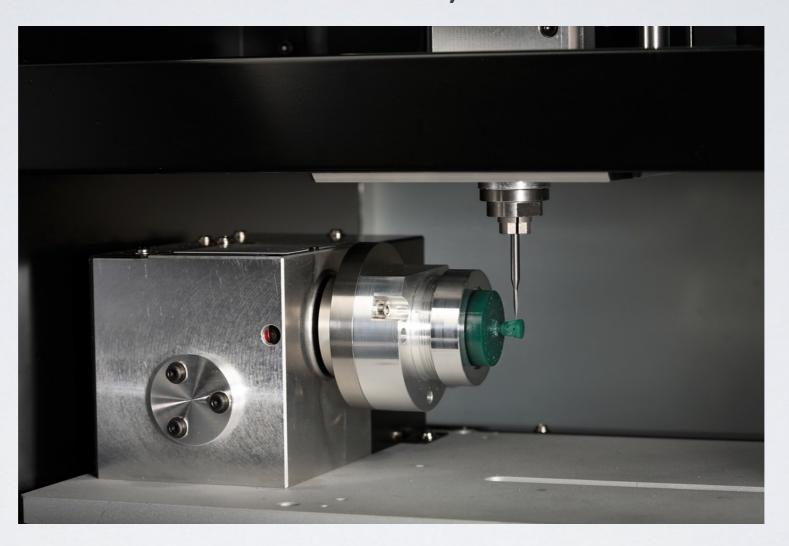
Includes Roland JWX30 Milling Support Structures.







Improved! Integration to CAM systems
Is fully integrated with the most popular CAM Systems, such as Modela Player, SRP Player, DeskProto,...



Roland JWX30

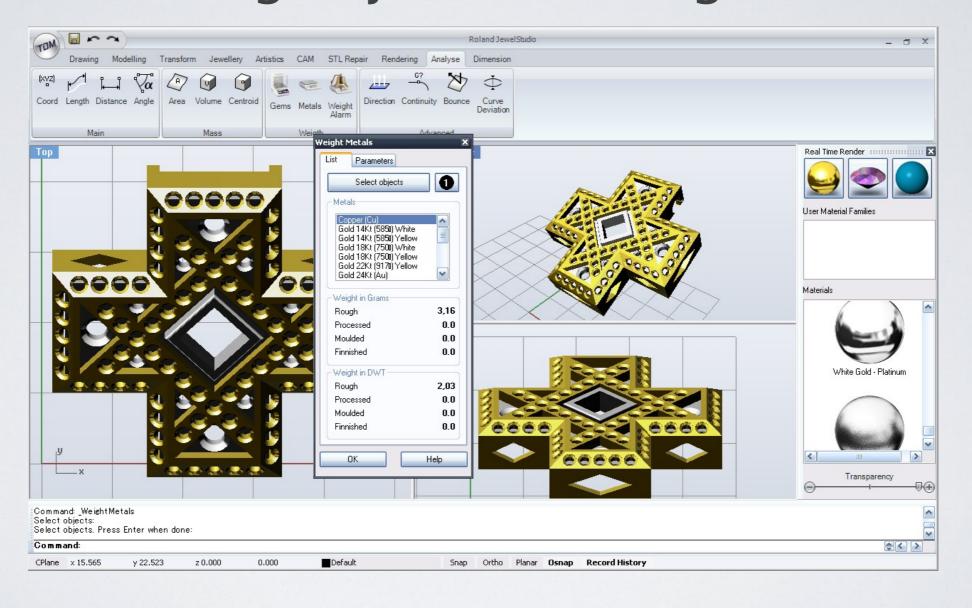


Analyze Tools



Weight for Metals and Gems

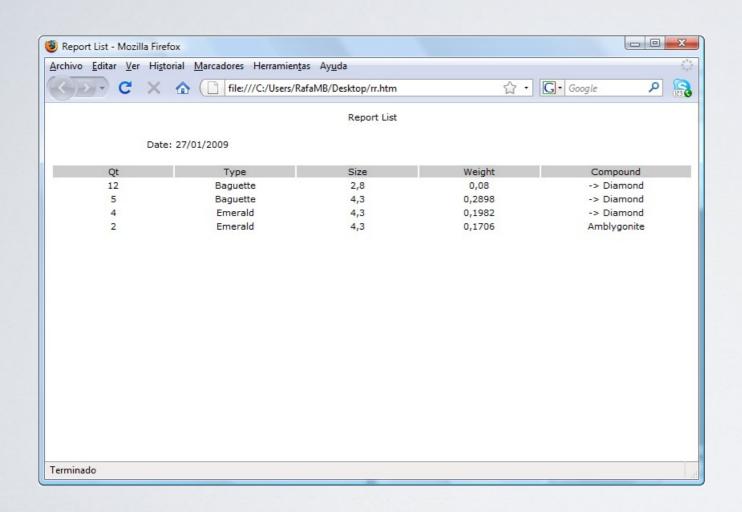
RhinoGold® Weight calculates the weight of our designs just in a single click.

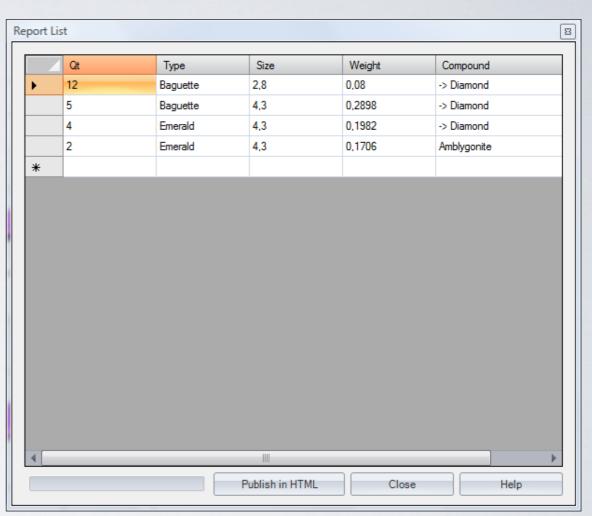




Report

This tool creates a report of your model





Report in HTML

Report

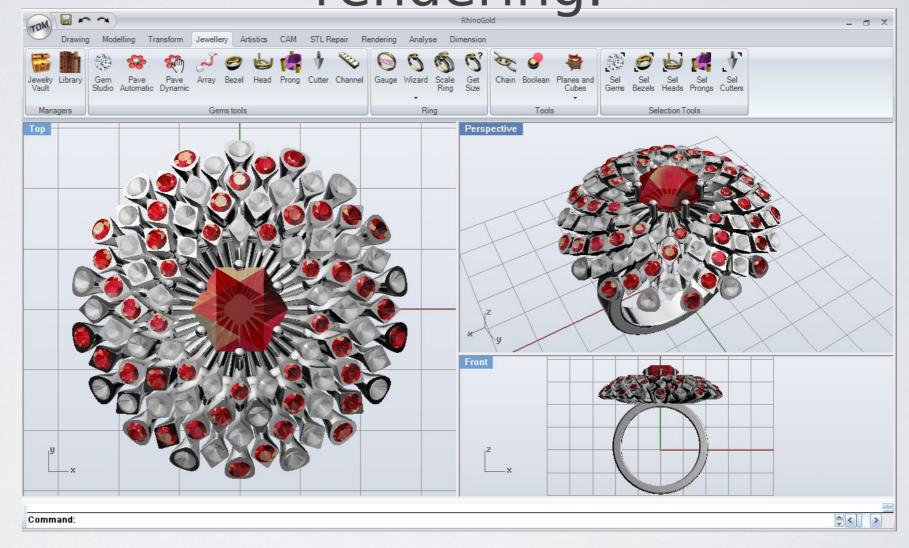
www.rhinogold.com



Communication tools

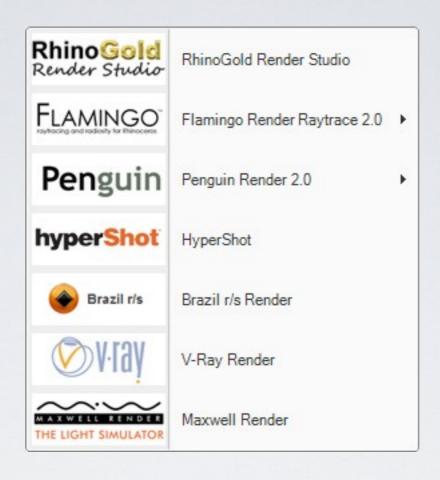


Real time Rendering RhinoGold includes a real time rendering.





Rendering Compatibility



RhinoGold is totally compatible with Flamingo, Penguin, Brazil, HyperShot, V-Ray and Maxwell

www.rhinogold.com





Rendering Compatibility



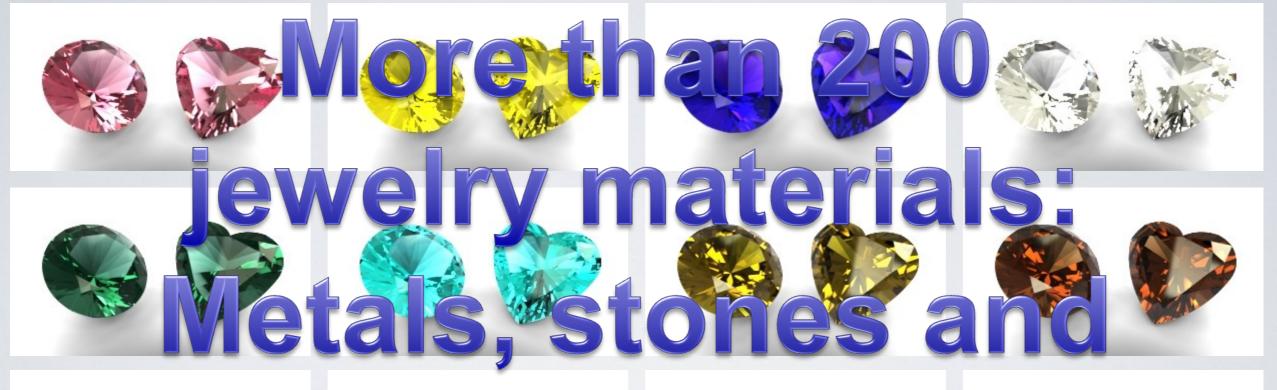
and includes jewelry material library for Flamingo, Brazil and HyperShot.























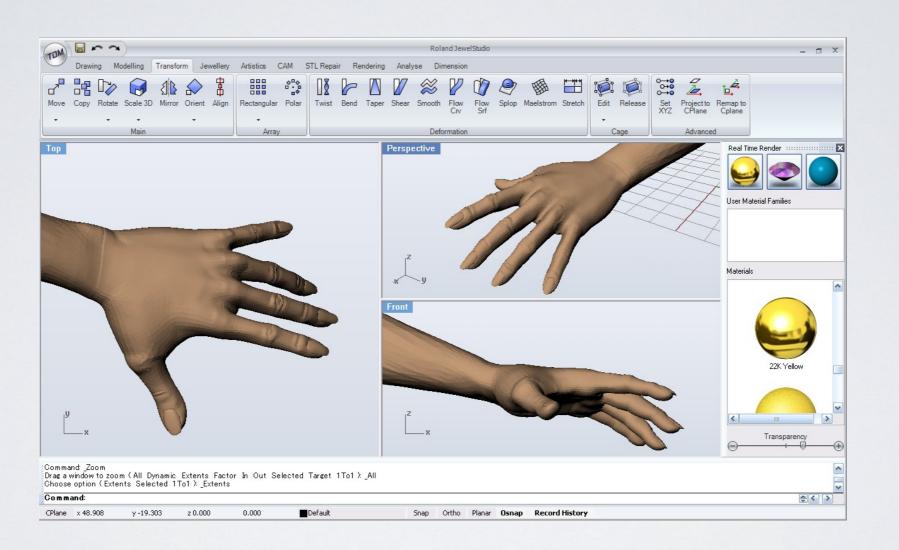




Scenario

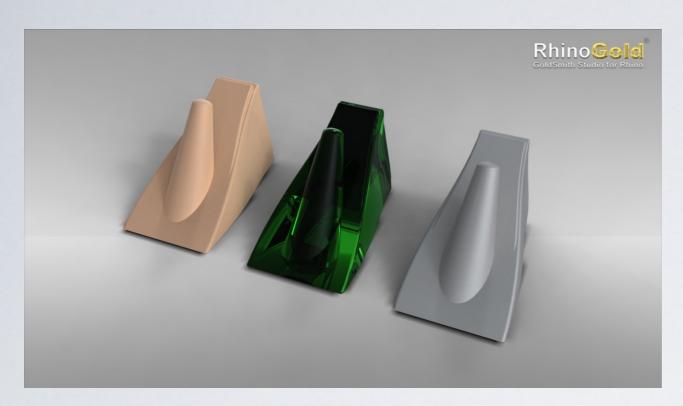
This allows us to add design presentation scenarios.

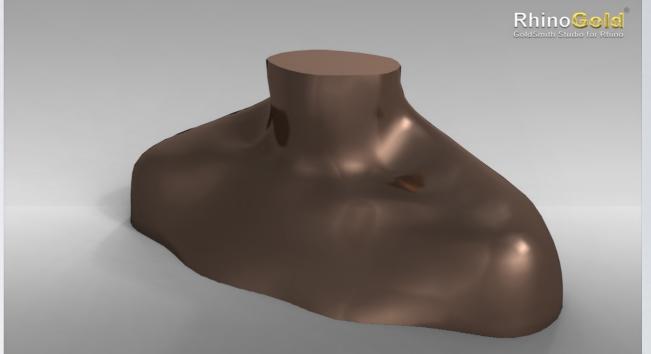
The scenarios are modifiable and can be fully managed by the user.











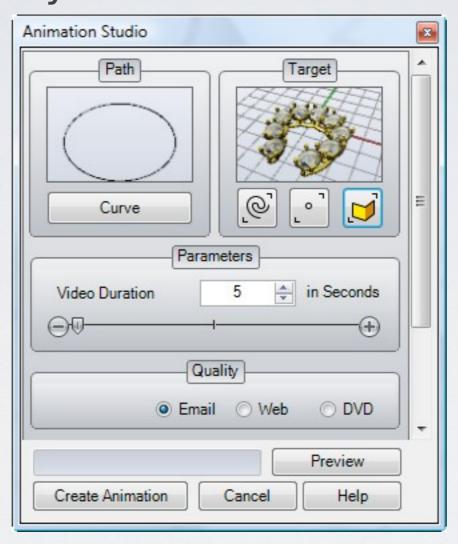


Courteswafwarhnogodd.com

Animation Studio

This allows us to create videos in seconds.

The user defines the camera parameters, the video quality: email, web and DVD, the favorite render and export it using your favorites codec.



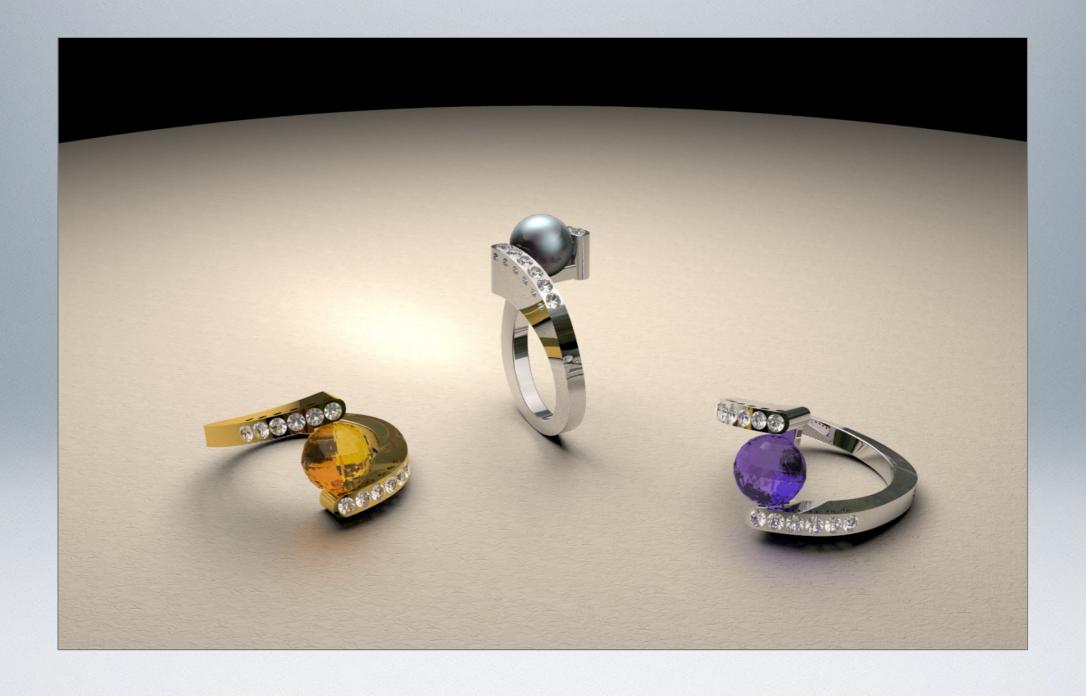


Gallery

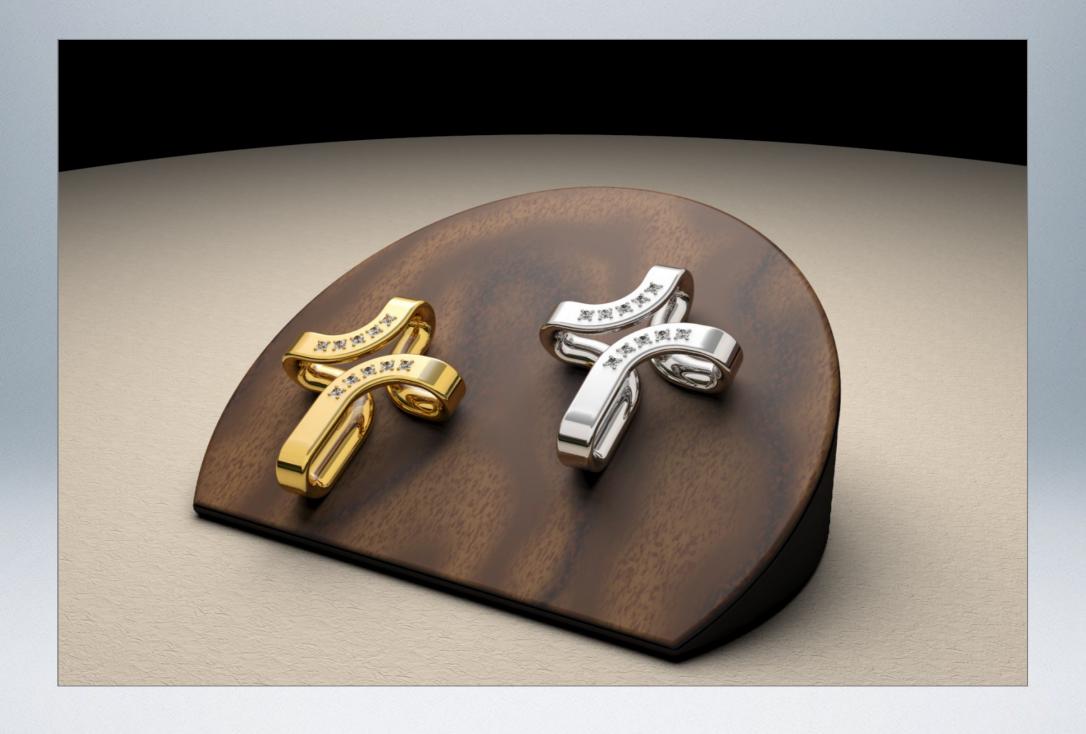


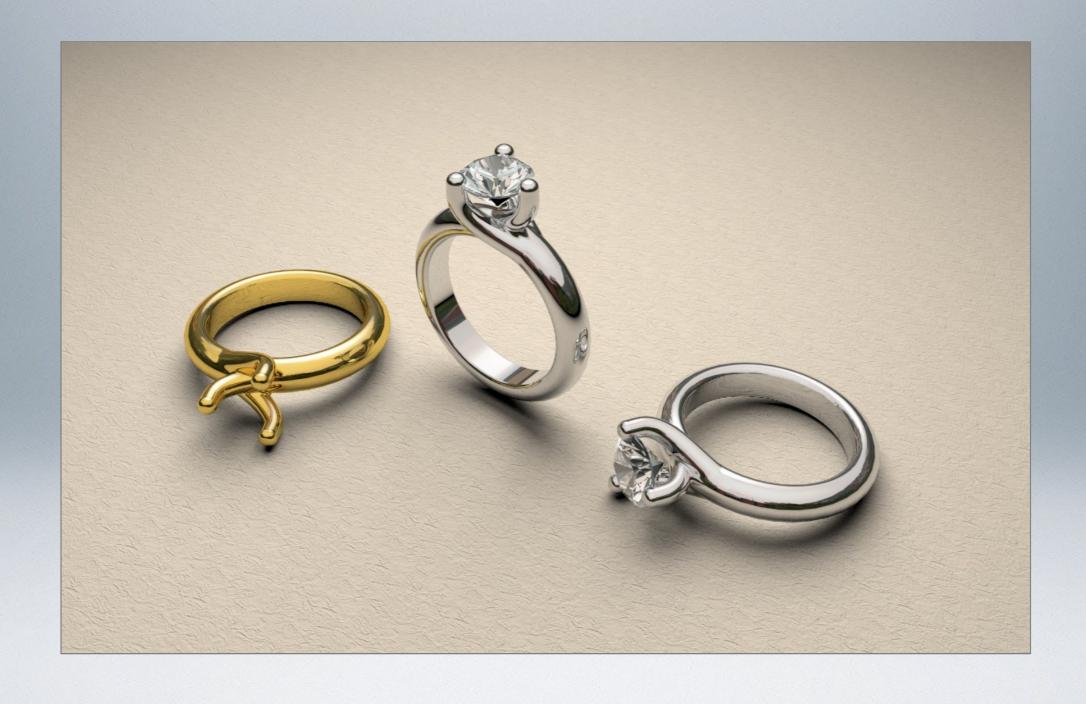


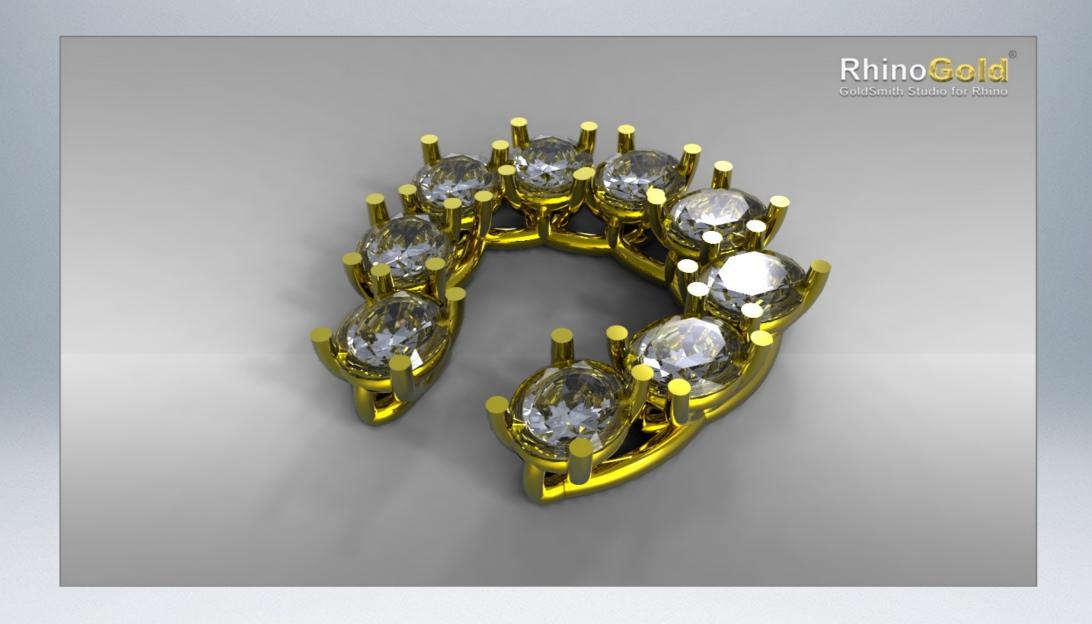
Virtual Jewelry - Athens (Greece)

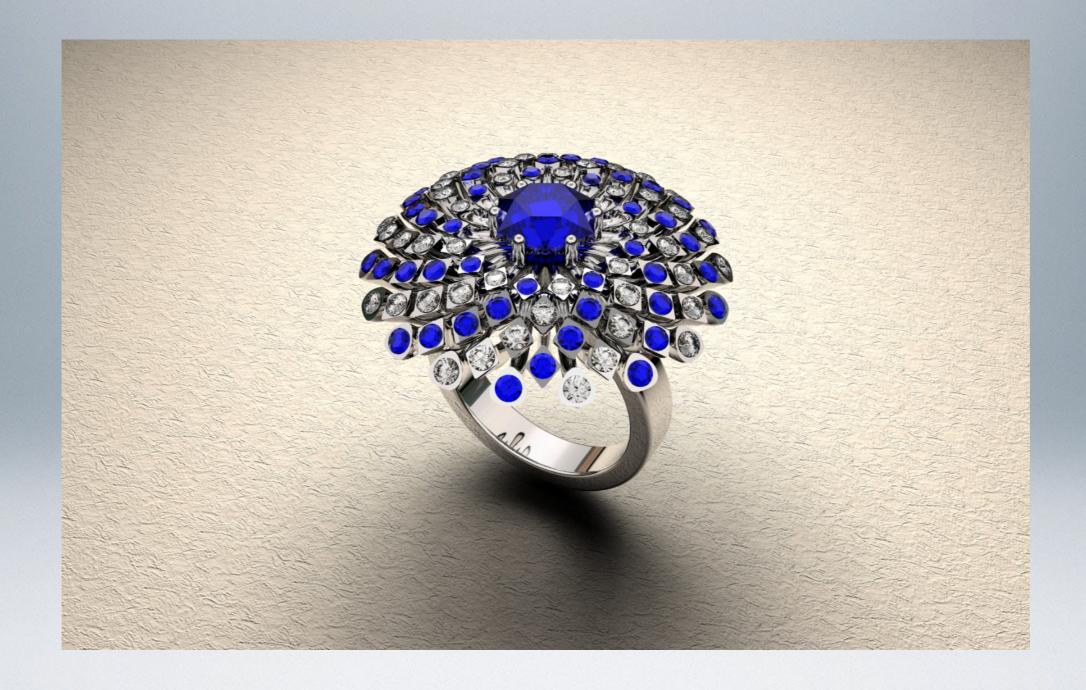






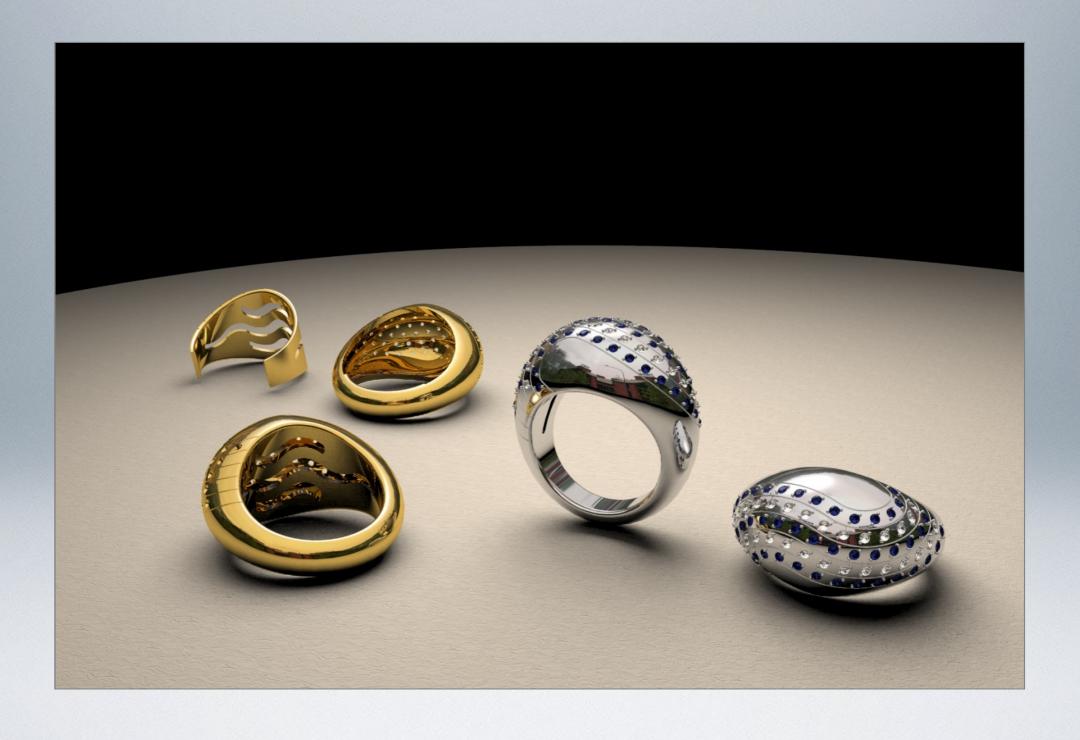


















Javier Alonso - Córdoba (Spain)

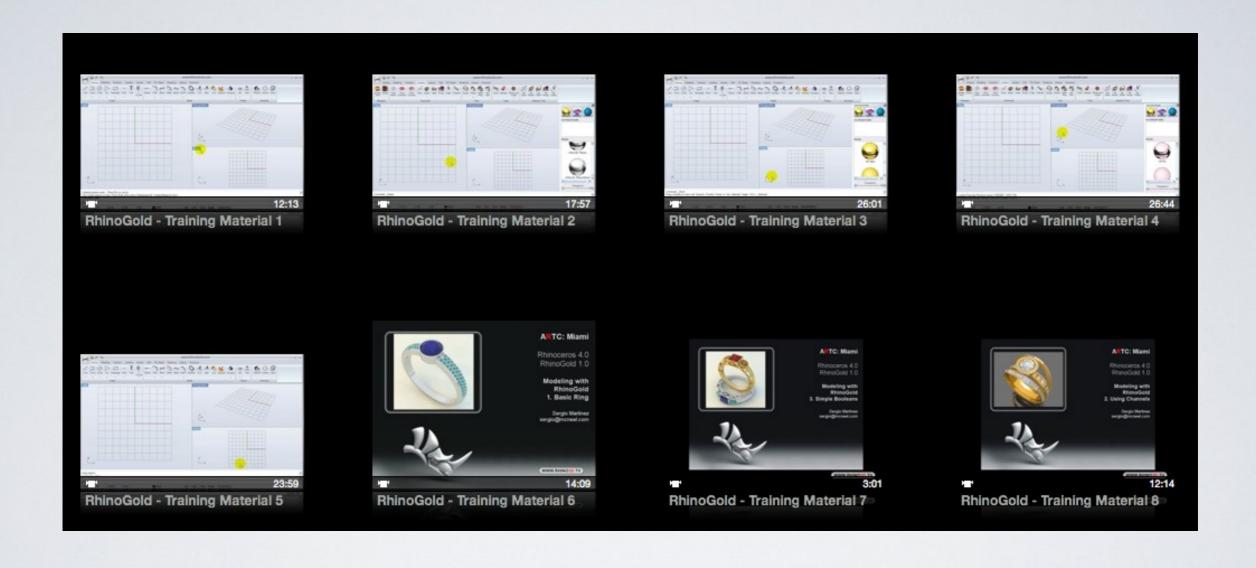


How to learn RhinoGold

How to learn RhinoGold



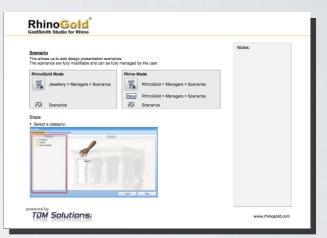
Training Material - Videos Step by Step



Command Description









Training Guide



Training Guide



www.rhinogold.com

Training from beginners and experts,

146 pages, including all the generic and jewelry commands and process. rhinogold.com







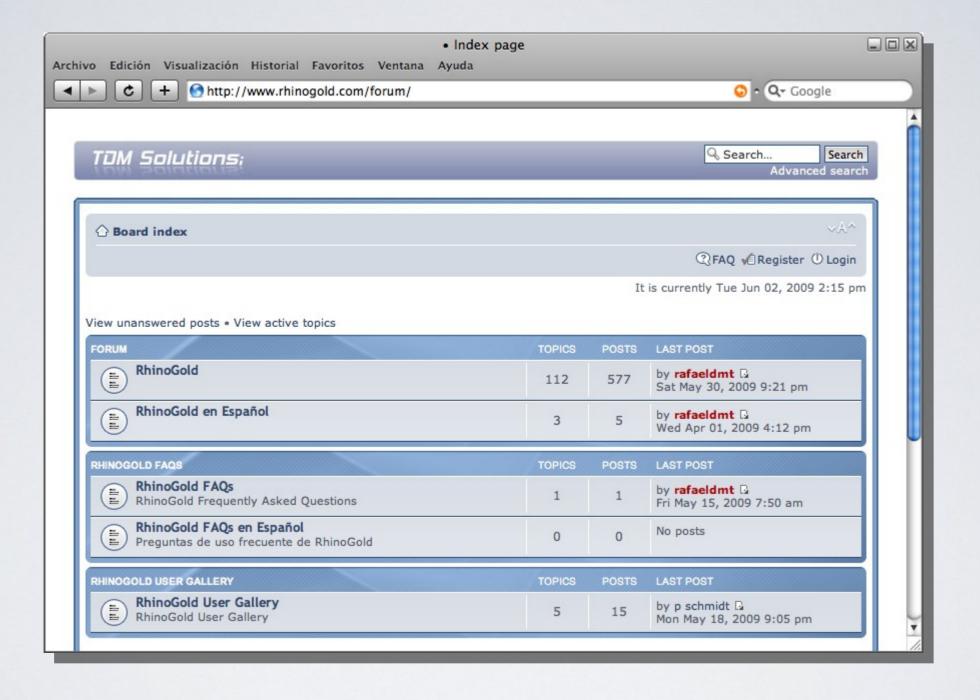
iPod and iPhone Videos



www.rhinogold.com



Public Newsgroup and Free Support



Educational and School Lab Licenses



Without limitations, functionality and time

Roland DG integrates RhinoGold in Roland JWX30 worldwide.





www.rolanddg.com

TDM Solutions:

www.tdmsolutions.com