CARPATHIA
GRAPHIX INTERFACE

Users Reference Guide

Xenetech Laser EDI

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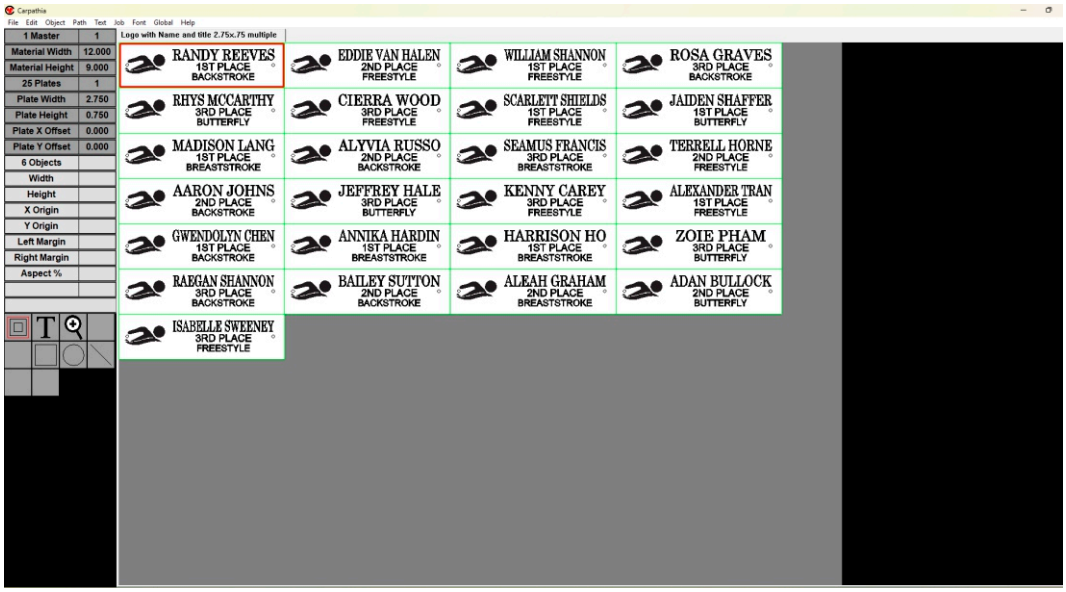
Xenetech Laser EDI

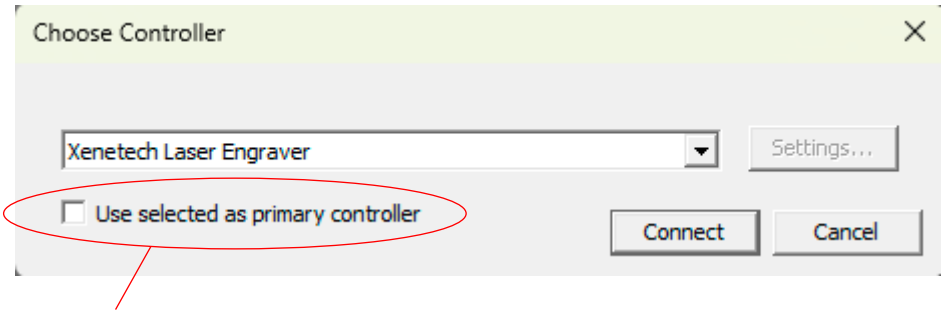
Carpathia software has the ability to run a Xenetech laser directly without the need of a print driver. With the XGW module unlocked in Carpathia, you can go to “File”, then “Output to Controller” and select Xenetech Laser Engraver. This opens the Carpathia Engravers Device Interface, or EDI. The EDI shows your artwork, allowing you to see what is “raster” what is “vector” and what is “grid cutout”, as well as set speed, power, rotation etc. From there the EDI creates an .lsr file and drops it into the “laser inbox” causing the job to show up on the touchscreen of the laser.

The Process

We start with a trophy plate job that in addition to the raster images has cutout holes and a grid cut.



Go to “File”, “Output to Controller” or use the F1 hot key.

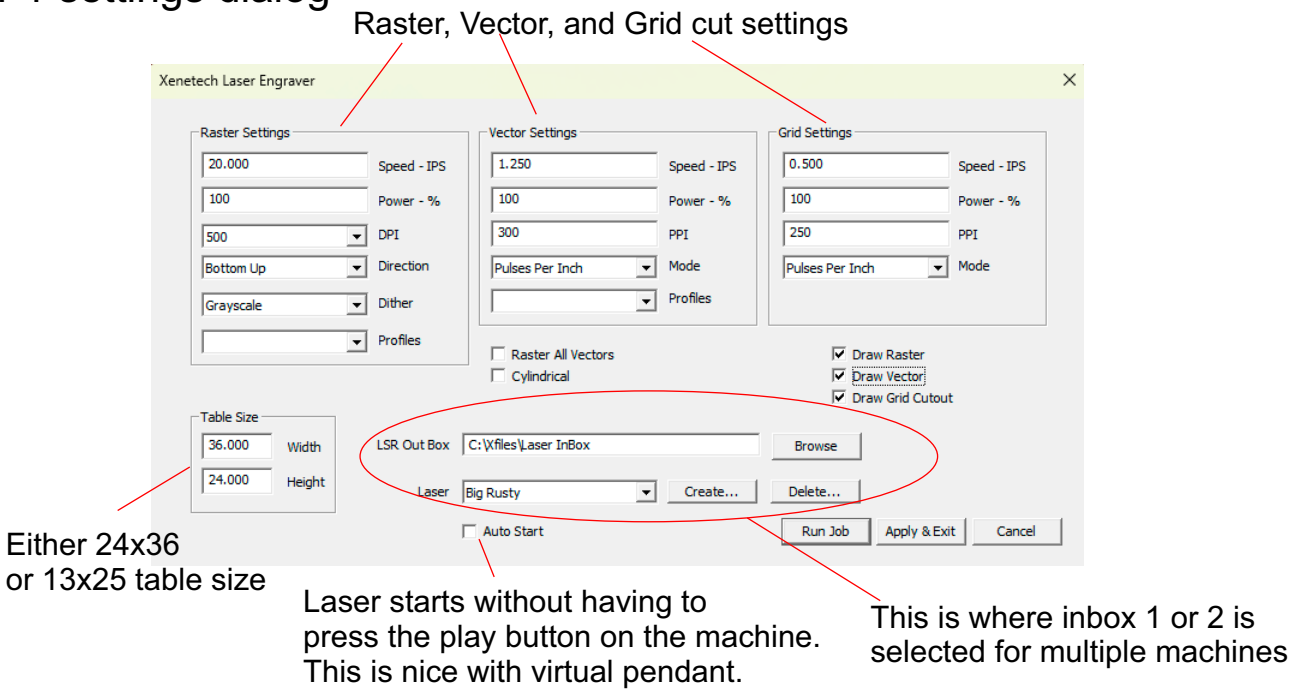


If you are not using any other controllers you can check the “Use selected as primary controller” box to eliminate this step going forward. With this checked this dialog is bypassed and the Xenetech Laser Engraver EDI launches automatically.

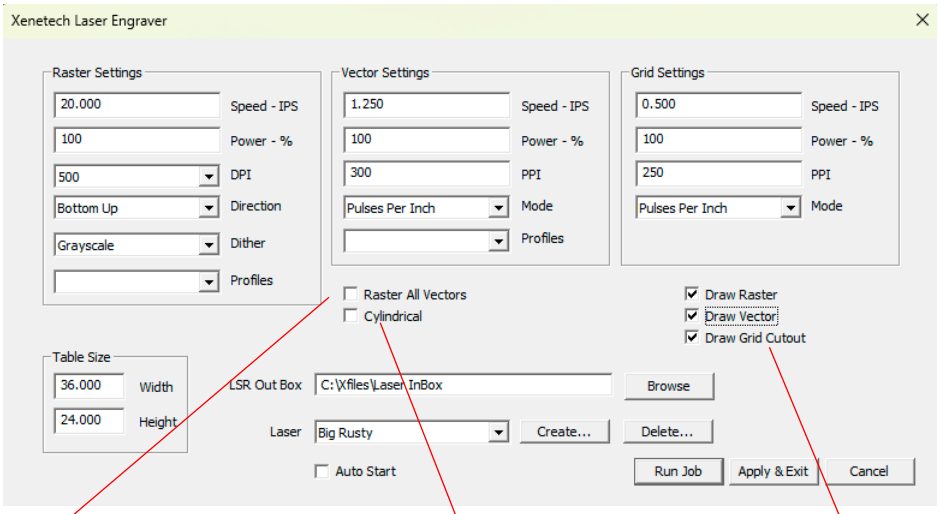
Xenetech Laser EDI

The Xenetech Laser EDI opens with a view of your job. Plates are shown in white, the material size entered shows in gray. Red represents the table size of your laser, and green is out of bounds.

F1 settings dialog



Xenetech Laser EDI

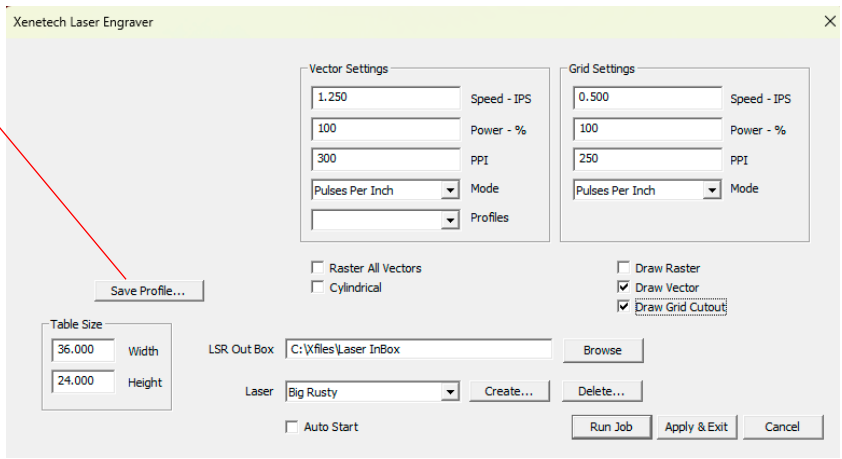


Raster all Vectors allow you to engrave very thin high detail lines for small detail engraving

Cylindrical must be checked to run a Xenetech round attachment. See the Roundy section for more.

You can select which to engrave, and once you click “apply & exit” the artwork on the screen shows only what will engrave. A good way to make sure there are no outlines on text etc.

With either the Engrave Settings or Vector Settings turned off you can save a profile in the one still turned on. There is no save profile for Grid Settings as of yet.



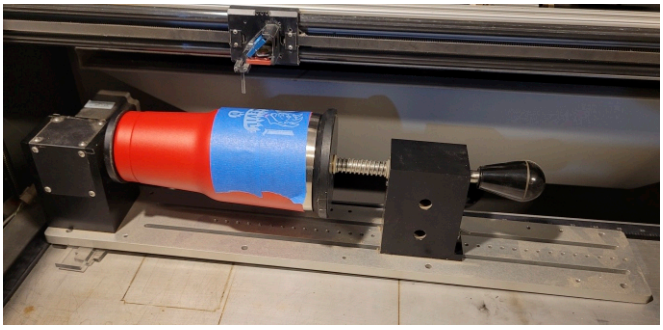
Running Xenetech Cylindrical

There are many ways to set up a cylindrical job. In this example we measure the area to engrave, set our plate to that size then use center center as the origin location.

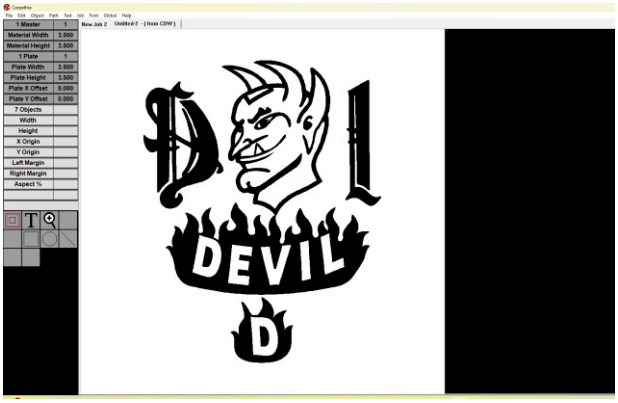
Xenetech did not have a specific location for the cylindrical to be used on the table. I use the top left of the table and prop up the end that is required to get the object level with the bridge.

I marked a center line on the gear box of my cylindrical so after boot up, I jog to the center line, then leave the Y axis stationary and only move the X axis to set a center point.

In the example shown here I am using a large Yeti tumbler with the mouth on the cone, and the base on the flat plate at the gear box. The gearbox end had to be blocked up to level the cup to the bridge. I jogged out to the location that I wanted to be center of the artwork and set temp home on the Xenetech touch screen.



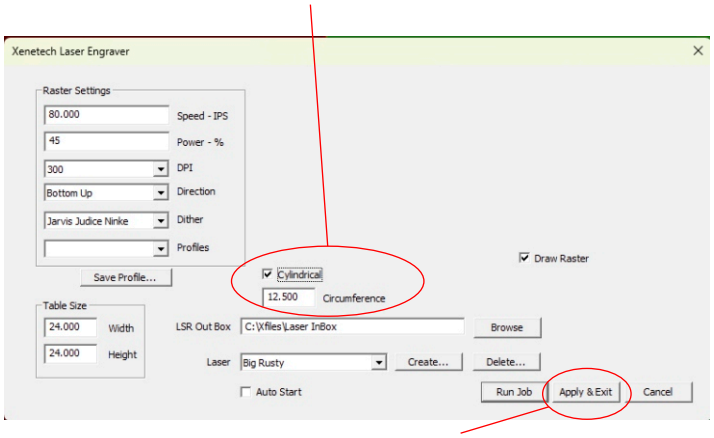
I set my work space in Carpathia to 3.5” by 3.5” knowing that is the area I want to stay inside of.



Running Xenetech Cylindrical

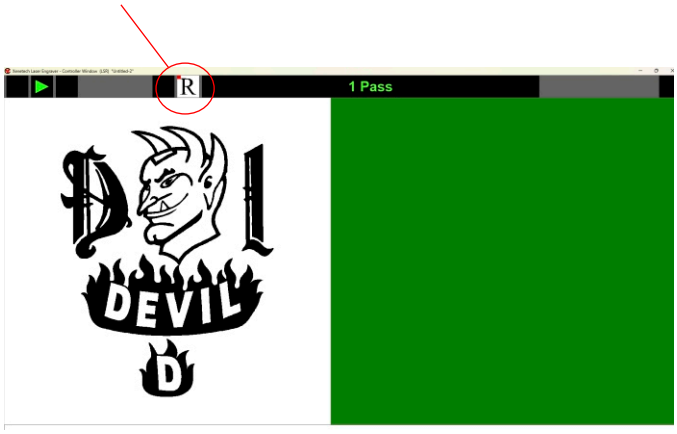
With the artwork set in Carpathia output to the “Xenetech Laser Engraver” which will open the EDI for Xenetech laser.

Check the “Cylindrical” checkbox and set the circumference of the object you are engraving. This large tumbler circumference is 12.5”



After pressing the “Apply &Exit” button the EDI no longer shows the red table since it is irrelevant in this mode.

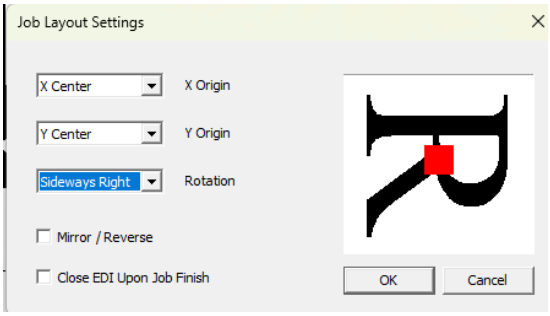
Click into the origin and rotation menu



Running Xenetech Cylindrical

In this example I wanted to run using a center, center origin. The red dot on the R indicates the origin location relative to the artwork.

I then selected sideways right since the cup is mounted in the cylindrical with the top to the right.



After selecting the OK button the EDI will now show the artwork rotated. The R at the top of the screen shows the rotation angle and the origin location. The job is now ready to run. As you can see in the original picture I ran a test on blue tape to make sure it all comes out the way I expect.