

**VOCABULARY**

- Laser
- Vector Image
- Raster Image
- Engrave- Black Fill or Stroke
- VLS6.60
- UCP software
- Rotary Jig

**NOTES:**

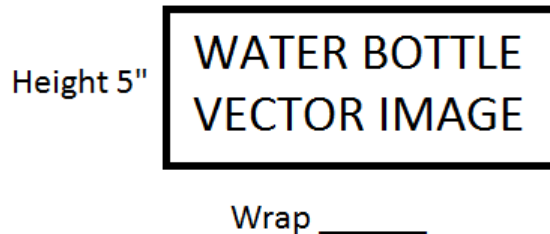
**PVC AND VINYL MATERIAL ARE NOT ALLOWED IN THE LASER:** If you are ever wondering if the material you are going to use is ok, it is better to ask before using then using it and have it ruin the laser.

**SETTING UP YOUR VECTOR FILE FOR WATER BOTTLE**

- Open a new document 10 inches x 10 inches
- Create your vector image in Illustrator for your water bottle
- Find out how big your image can be
  - Use a caliper to measure the diameter of the water bottle

Diameter \_\_\_\_\_ x 3.14 = \_\_\_\_\_ - .5" = \_\_\_\_\_ Wrap (widest your image can be)

- Height of the printable area is 5"



- Your vector image should be black
  - There will be no cutting through the material only engraving
  - Select your whole image by dragging a box around everything with the selection tool
    - Right click
      - Group
  - Right click on your design
    - Transform
      - Rotate: 270 degrees \_\_\_\_\_ →
      - Click OK
- Your image should be completely set up before going down to the laser

Your image should be facing this direction.




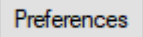
**SETTING UP THE ROTARY JIG IN THE LASER**

- Open the door in the front of the laser
  - Slide out the tray and carefully set on the floor next to the CNC Mill out of the way.
  - If the tray does not come out you may need to lower the bed of the laser (skip these steps if you already took out the tray)
    - Open UCP
      - Turn on the laser
        - Use the arrows on the front of the layer to lower the bed
- Make sure the laser is OFF before putting in the rotary jig
  - THE ROTARY JIG ONLY GOES IN THE LARGE LASER

It can be much smaller than this and a different shape, your image does not need to wrap around the water bottle.

- Set the rotary jig on the silver bed and use the two small holders on the right side of the laser to set it in
  - Plug the tan corn for the jig into the upper right side of the laser
- Place your water bottle into the jig
  - Move the sliding piece so your water bottle stays in place
    - Use the red lever to lock it in place
    - Now you may turn on the laser







- Open the Illustrator file on the computer that is set up with the laser.
  - File
    - Print
      - VLS6.60
        - Setup 
        - Go to 

- Materials Database
  - Find the material you are using
    - Fixture type: Rotary (in the drop down)
    - Diameter 2.875 (double check with the caliper)
    - Apply
    - OK
    - Print
    - Print

**Metal Water Bottle:**

- Metal
- Aluminum
- Anodized

- Open the UCP software from the desktop for the laser
  - Turn on the laser if it is not already on
  - **CHECK THAT THE EXHAUST IS ON (switch on the wall)**
  - Your image should show on the screen
    - It will look different because of the rotational jig
  - Use the Focus tool  to move the laser to the center of your water bottle
  - Click the Relocation tool 
    - Select the middle box of your design
    - Click to pointer
  - Go back to the  tool and check the top and bottom of your image to make sure it won't engrave off of the water bottle
  - Press the large green play button 

**NEVER WALK AWAY FROM THE LASER WHILE IT IS WORKING  
FIRES CAN HAPPEN AND YOU ARE RESPONSIBLE FOR ANY COST**