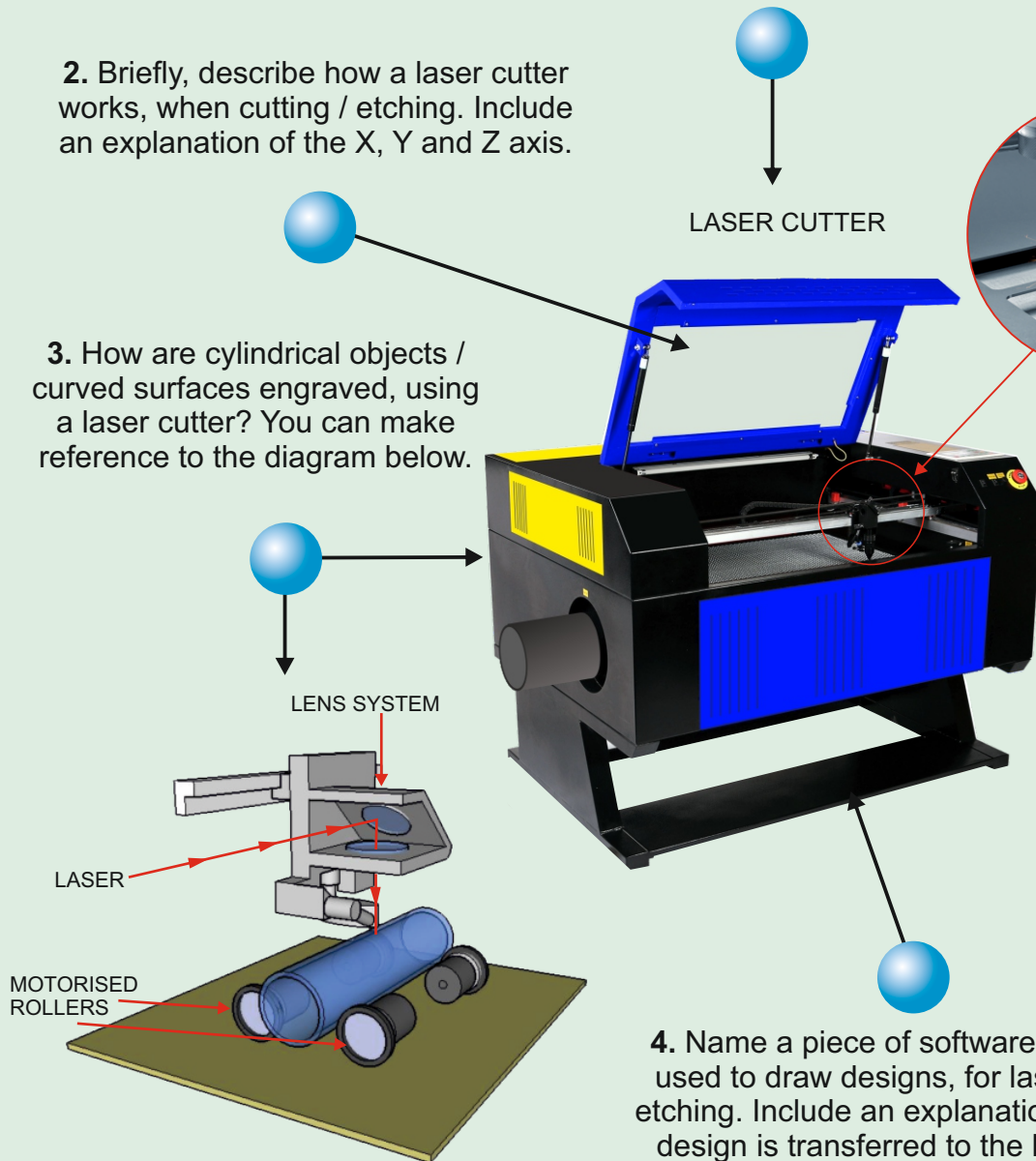


1. Describe the type of work, that can be carried out using a laser cutter. What is laser cutting? What is laser etching / engraving? Include images.

2. Briefly, describe how a laser cutter works, when cutting / etching. Include an explanation of the X, Y and Z axis.

3. How are cylindrical objects / curved surfaces engraved, using a laser cutter? You can make reference to the diagram below.



4. Name a piece of software that can be used to draw designs, for laser cutting / etching. Include an explanation of how the design is transferred to the laser cutter.

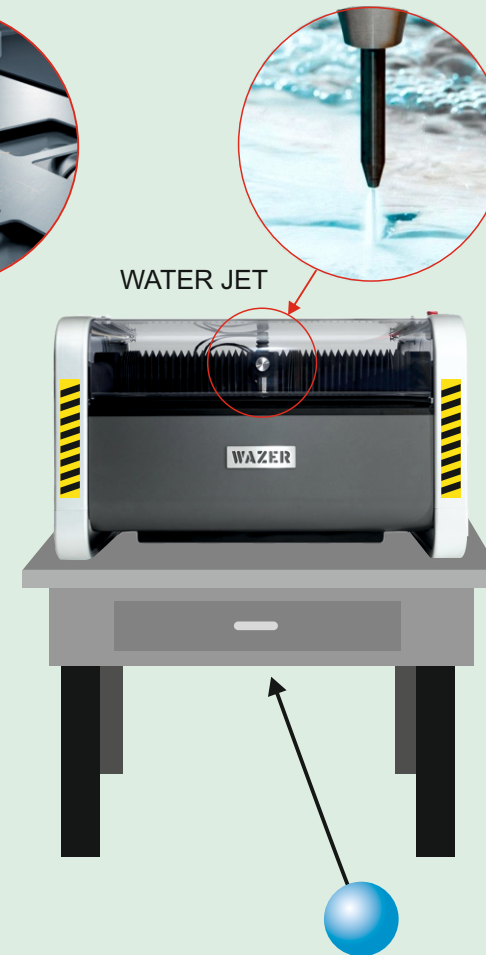
EXTENSION TASK

Search the internet for images of materials cut by a laser cutter and those cut using a water jet. Clearly identify the machine used to cut the shapes.

8. What are the advantages of a water jet cutter?

7. Sketch a diagram of a 'high pressure nozzle' and label the parts. Then, explain how water and abrasive is combined, for the cutting process.

6. How is software used to produce a design / pattern, to be cut by a water jet?



5. Briefly explain how a Water Jet works. Paste an image or draw a sketch, to support your answer.