

Laser Cutter



Machine:	Laser Cutter
Make/Model:	FSL P20x12
Revised:	3 / 10 / 2023
Author:	Trevor Marks
Location:	Engr. II, rm 2226
Department:	Mechanical Engineering

DO NOT use this machine unless you have been trained in its safe use and operation!

Personal Protective Equipment



Caution
Laser Hazard



Inhalation
Hazard



Caution
Hot Surface



Caution
Fire Hazard

Do's and Don'ts

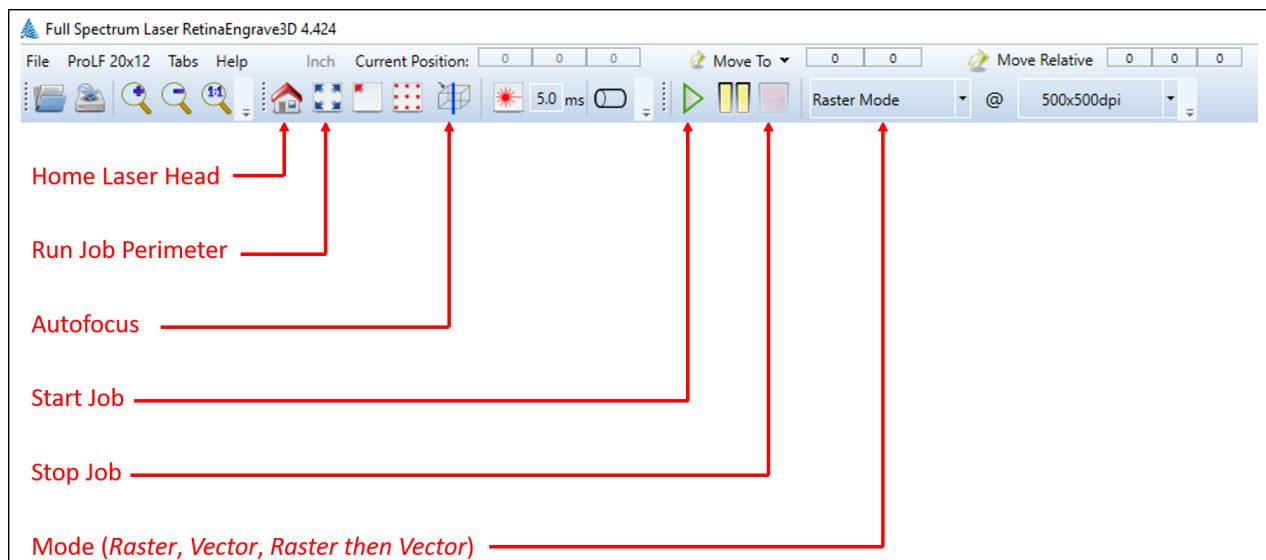
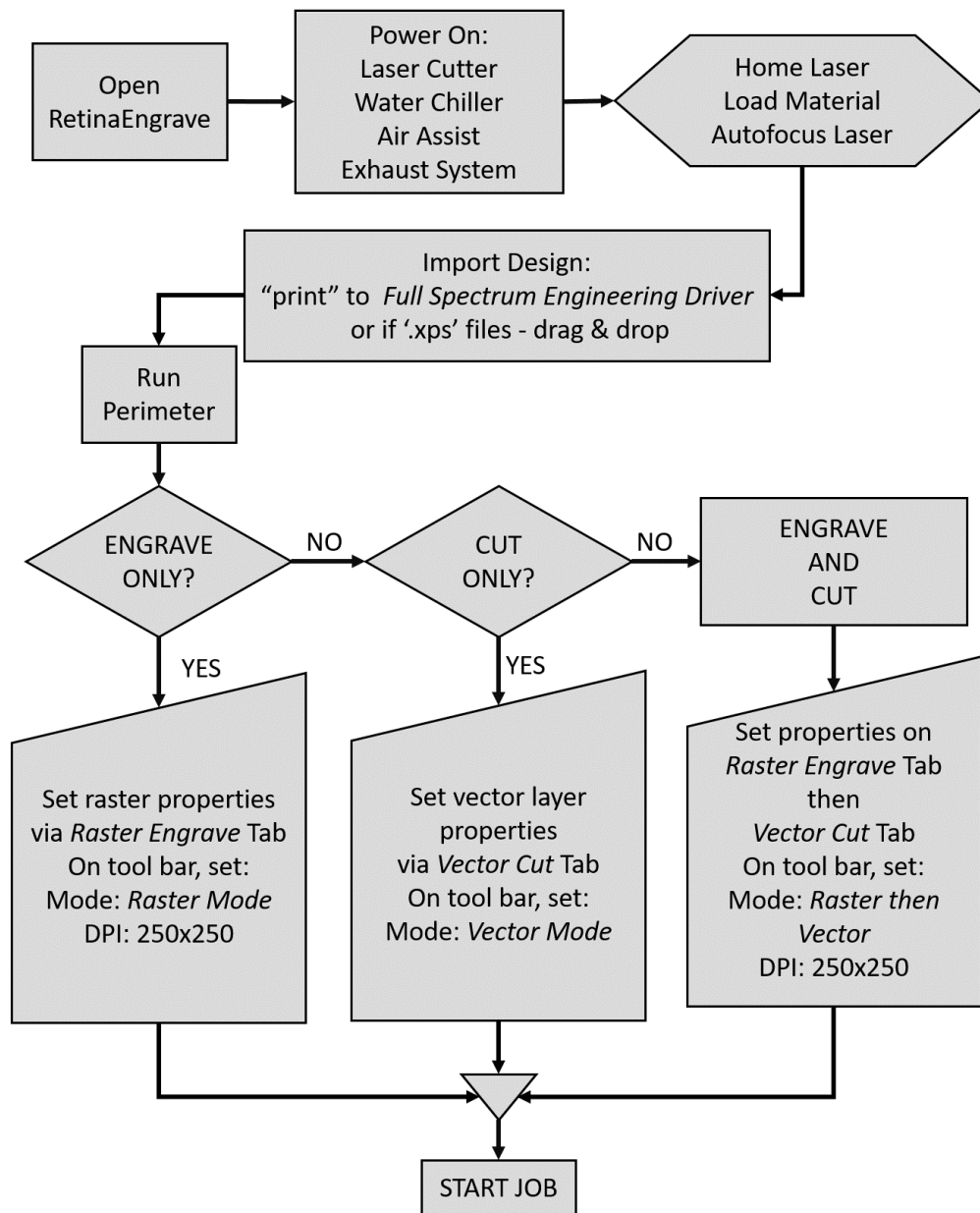
Do:

- Read the laser cutter user manual: [GitHub LINK]
- Read the software user manual: [GitHub LINK]
- Only materials on the **Approved Material** list can be used in the laser cutter.
- Take the time to properly layout your work.

Don'ts:

- Do not use the laser cutter without approval!
- Do not leave the laser cutter while it is cutting.
- Do not use material that is not on the **Approved Material list**.
- Do not engrave or cut any material containing PVC or vinyl. These materials (along with other chlorine containing materials) produce a corrosive vapor that is extremely harmful to humans and will destroy the machine.
- Do not operate the machine with any of the panels removed without permission.

Procedure Checklist



Menu bar details with most used icons highlighted.



Accessories (water chiller, air assist supply, and exhaust system) are turned on using the power strip.

Approved Material List

Only *approved* materials may be used in the laser cutter.

Do not use material if you are unsure what type of material you have.

Material	Cut	Engrave/Etch
Acrylic	•	•
Delrin	•	•
Polyethylene	•	•
Low Odor Rubber	•	•
Silicone	•	•
Vulcanized Rubber	•	•
Polyster	•	•
Nylon	•	•
Denim	•	•
Leather	•	•
Pine	•	•
Cherry	•	•
MDF	•	•
Cardstock/Paper	•	•
Glass		•
Ceramic Tile		•
Anodized Aluminum		•