

Laser Cutter



Machine:	Laser Cutter
Make/Model:	FSL P20x12
Revised:	3 / 16 / 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

Select Specifications

45 W CO₂ Laser

Working Area: 20" × 12" (508 mm × 304 mm)

Height: < 6.5" (161 mm)

Max. load: 25 lb (22 kg)

Do's and Don'ts

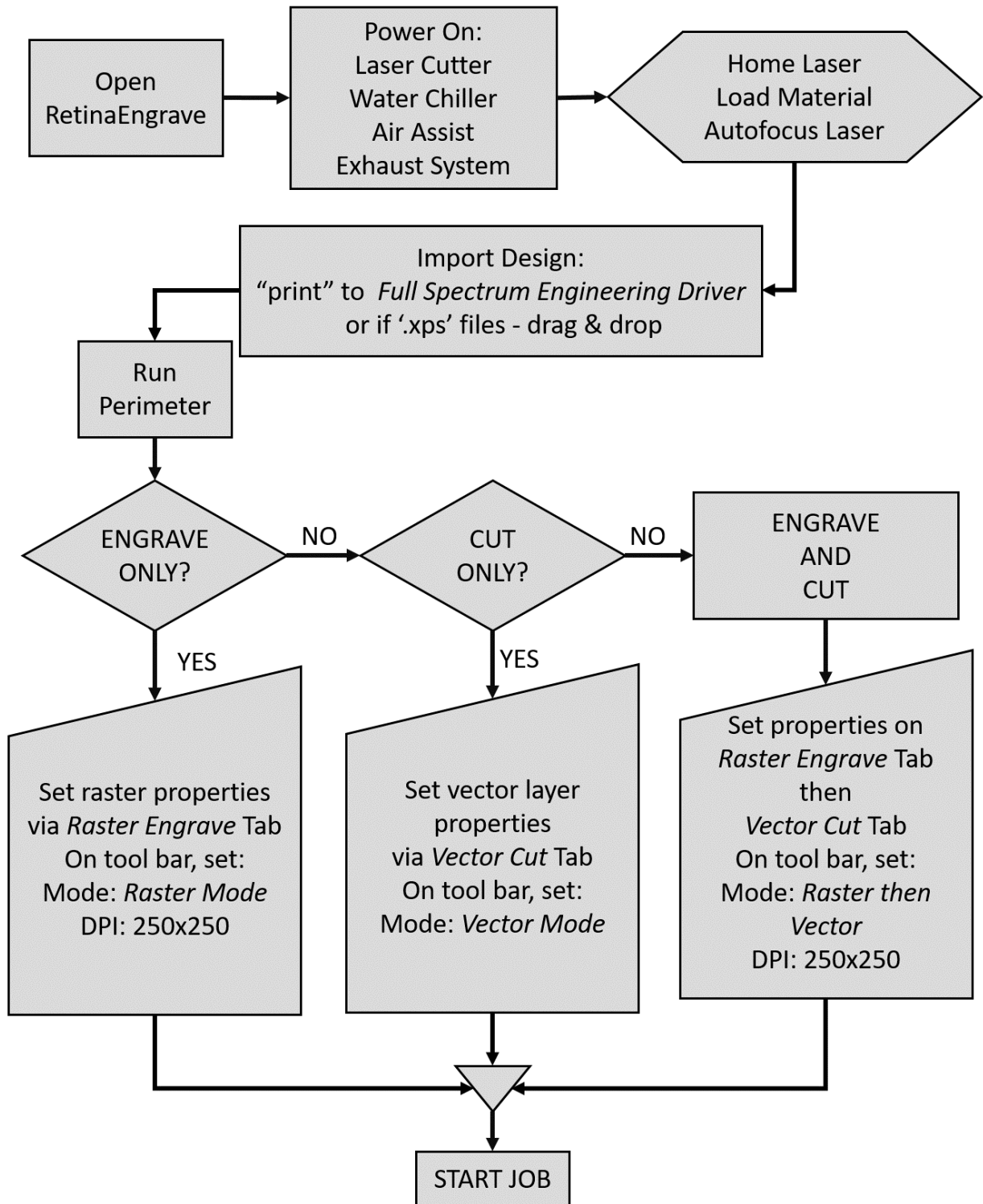
Do:

- Read the laser cutter manual: [\[GitHub LINK\]](#)
- Only use materials on the **Approved Material** list
- Follow the *Procedure Flow Chart* (see next page)

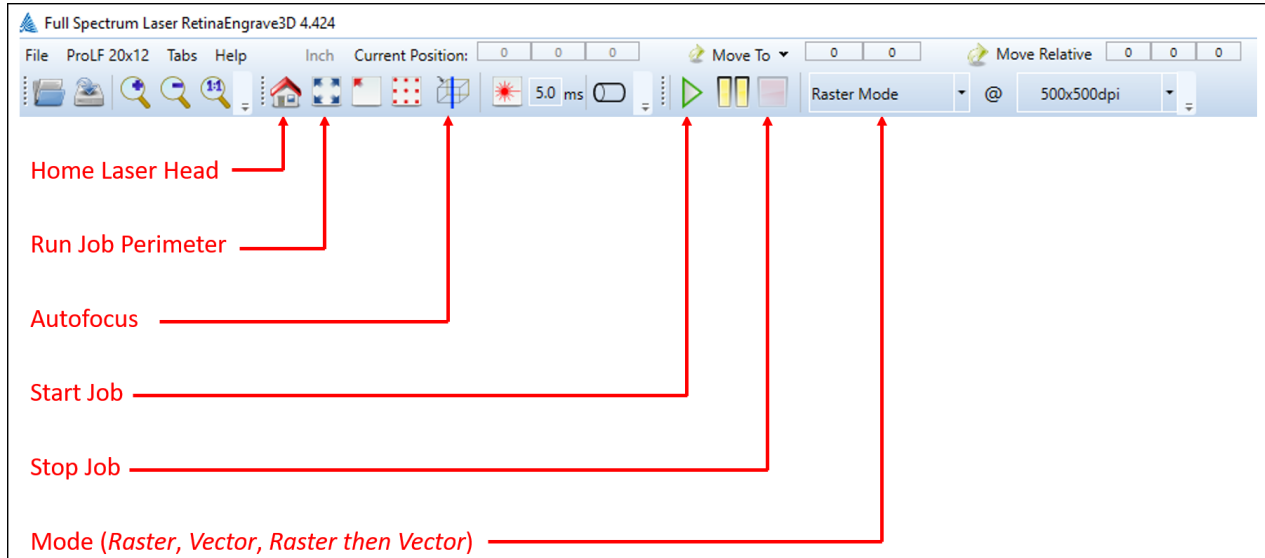
Don'ts:

- Do not use the laser cutter without approval!
- Do not use material on the **Prohibited Material list**!
- Do not leave the laser cutter while it is cutting!
- Do not operate the machine with any of the panels removed without permission

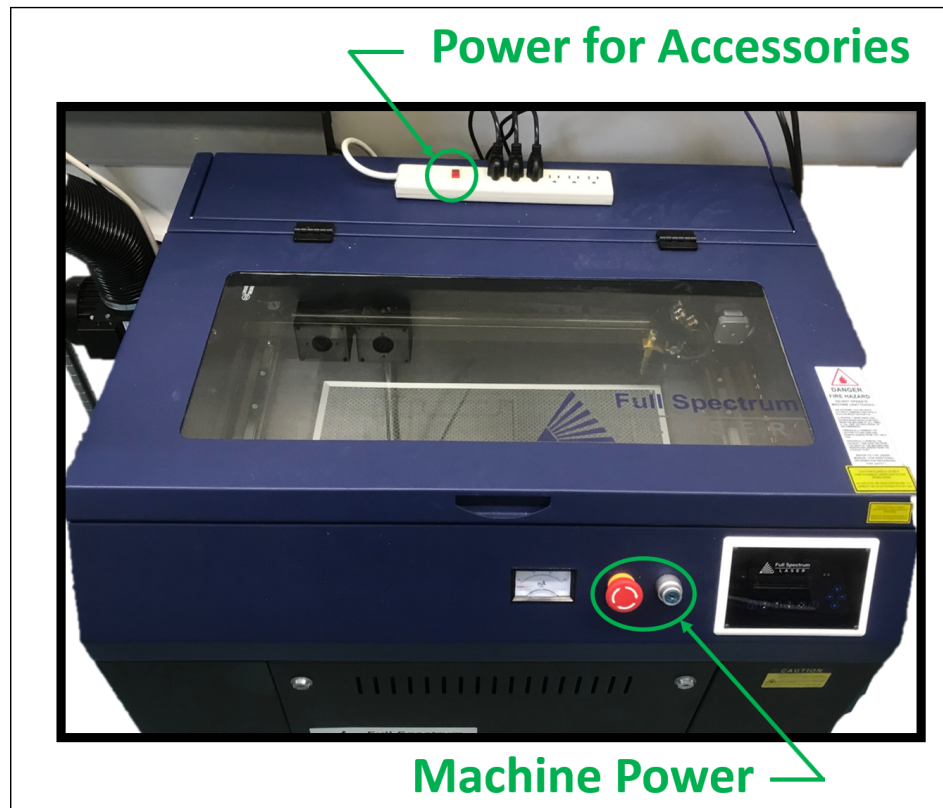
Procedure Flow Chart



Accessories



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	•	•
Silicone	•	•
Nylon	•	•
Denim	•	•
Wood (most types)	•	•
MDF	•	•
Balsa	•	
Cardstock/Paper	•	•
Glass		•