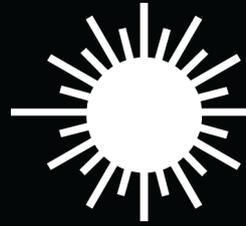


**RED:
FORMAL
INDUCTION+
SUPERVISION**



Trotec 360 Flexx Laser Cutter

ANU MakerSpace Safe Operating Procedure:

High Risk Equipment - Fire risk, potentially harmful fumes, pinch points.

PPE: Closed toe shoes, loose clothing and hair must be restrained.

Pre-operational Checks

1. Cut/etch approved materials only! Check the materials list or speak to a supervisor if you are unsure. If you are interested in using other materials submit it for testing to a supervisor/mentor. Testing may take up to 48hrs
2. Never use the laser cutter without a supervisor present, unless otherwise approved.
3. Be alert when using the cutter. Oversights can lead to fire or permanent equipment damage.
4. Check for obstacles (long hair, jewellery, clothing) before using the keypad to move the bed or gantry.
5. Do not place liquids or adhesives around the unit, or materials on top of or leaning against the machine at any time.
6. When the laser is focused, move the gantry over and around the material to ensure material is not obstructing the laser head or likely to move during operation. You can also use this to check that the design is aligned with the material.
7. Seek assistance from a supervisor/mentor if swapping out the laser bed.

Operational Checks

8. ALWAYS stay with the machine until your job is complete.
9. If something looks or smells unusual tell a supervisor & lock-out the laser to ensure your safety. Do not ignore warnings or alarms from job control or the laser.
10. Do not ignore warnings or alarms from job control or the laser. Use the emergency shutdown procedure if unsure.
11. Do not directly stare at the laser during operation as prolonged exposure may harm eyesight.
12. In case of collision with the bed or fire, lock-out machine immediately then extinguish flames with a fire blanket or extinguisher.
13. Do not open the door while machine is in operation, this will stop your job.

Post-operational Checks

14. If your cutting is irregular, please alert a mentor/supervisor who can perform maintenance.
15. Do not open the door until the extractor has automatically switched off (~ 1 min).
16. Clean the table and cabinet of any debris before leaving the machine.

