X-Carve User Guide and Operations

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Basics

~~REVEAL~~

Safety

Basics

- **Don't put hands in machine.**
  It hurts to have fingers cut off.

- **Wear clothes.**
  It'd distracting to other users and against policy.

- **No loose clothing or long hair**
  That really **was** a nice tshirt or scalp…

- **Don't cut anything you don't own.**
  Think about how you would feel if it was your thing.

Required PPE

- **Hearing protection**
  It's a better story to loose it at a rock concert than operating this machine

- **Eye protection**
  The replacement ones are awful. It's not worth it.

- **Covered Shoes**
  Something you should be wearing anyway.

Optional

- **Respirator**
  Looks scary and protects your lungs.

- **All over body condom**
  You can never be too safe.

Material Recommendations

Best

- Soft plastics
  - HDPE
  - LDPE
- foams.
  - Dence Polystyrene
  - Light weight polystyrene
  - Expanded PVC
- Cork.

Noisy

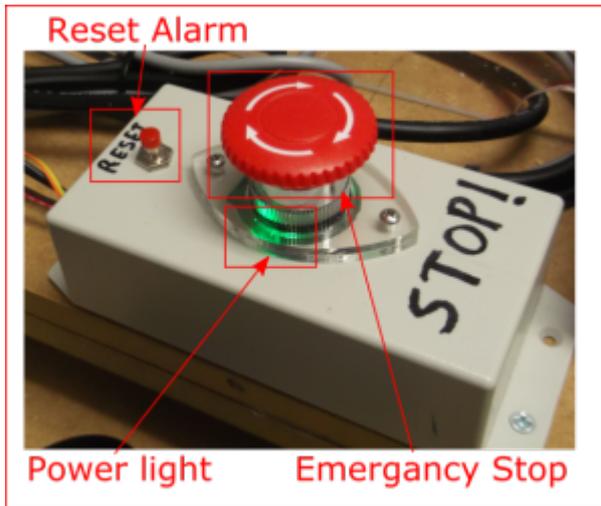- Hard plastics
  - Acrylic
- Wood
  - Plywood
  - Pine

Avoid

- Solid PVC (Tends to clog bits)
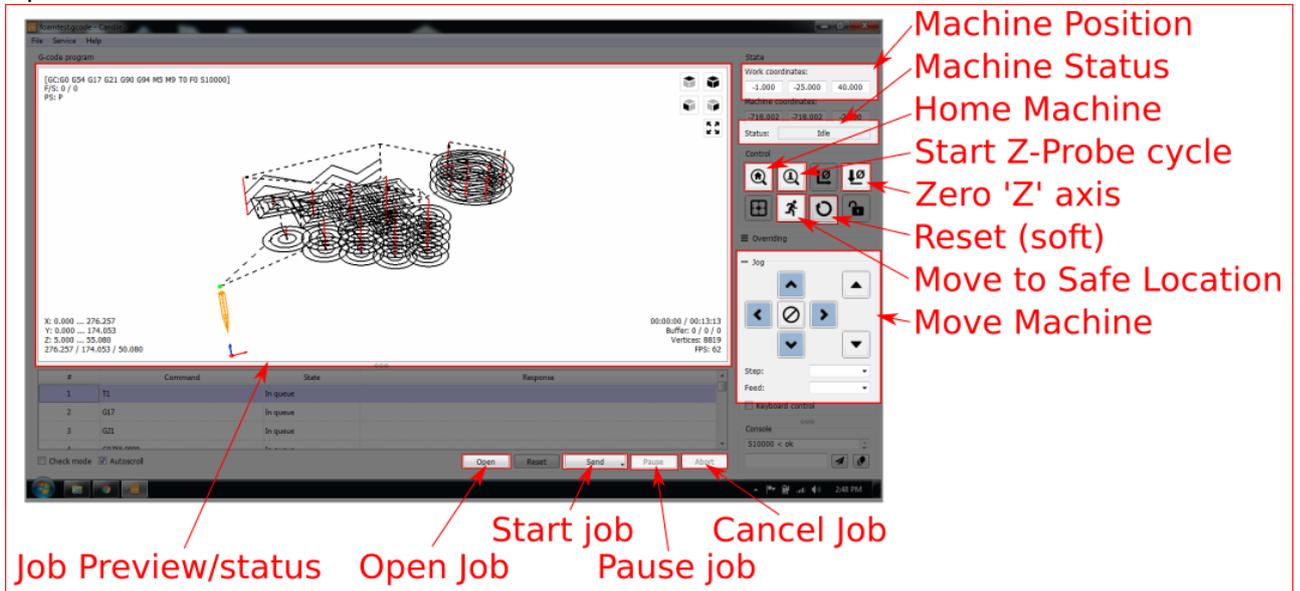- Leather (Fibrous. Cuts but clogs bits. Stinks.)

Tooling and cutting speeds

Operations

Machine start and verify basic operation

1. Ensure work space is clear of tools, etc.
2. To activate the machine, 'STOP' button needs to be lit up green, if this is not the case, turn red knob clockwise(direction arrows) until it pops up.

Reset Alarm
Power light   Emergancy Stop

3. Open or switch to Candle(Machine control software).

Machine Position
Machine Status
Home Machine
Start Z-Probe cycle
Zero 'Z' axis
Reset (soft)
Move to Safe Location
Move Machine

Job Preview/status   Open Job   Pause job   Start job   Cancel Job

4. Verify 'Machine Status' does **NOT** say 'Not Connected' ('Alarm' or 'Idle' is OK), if not contact Supervisor.

Good: Status: Idle   Status: Alarm **Bad:**

Status: Not connected

5. Press 'Reset' above the Emergency Stop button.

6. Press 'Home' Machine will move to find end stops.

7. Status should flash green 'Home' then display 'Idle', if not or if the machine makes grinding noises, doesn't home or has other problems contact Supervisor.

Good: Status: Idle   Status: Alarm **Bad:**

Installing and change of tooling

Loading and running a job

Post-use shutdown