

# ~ FABRICATION ~



## OPERATING INSTRUCTIONS



### INTRODUCING

*the*



# CNC MACHINE



**Camtech Z CNC Router (wood and acrylic sheet use only)**

**Access Level 3** (see Tech Workshop induction Guide on Access Levels)

**Routing into hard and soft woods, wood-based board and acrylic sheet**

### PPE Basic

- Suitable workcoat (provided)
- Eye protection – generally marked to BS/EN166 (provided)
- Dust mask (temporary or fixed) rated to FFP1/FFP2 (provided)
- Ear defenders (if adjoining process, including LEV) or ear plugs (provided)
- Stout footwear

### What to do before use

- Check machine isolator is in the OFF position
- Visual check of the machine for signs of damage to machine or electrical supply system, (if student) report any faults to any member of workshop academic/technical staff or (if staff)
- Machine computer start-up procedure will guide operator through machine origin centring and spindle (machine head) warm-up
- Fixed guards fitted and in good condition.
- Flooring condition – slippery from settled wood dust, offcut obstructions
- Adequate overhead/natural/machine lighting?

### How to Use This CNC Routing Machine

- Machine START-UP Operation:
- Refer to any OPERATING INSTRUCTIONS given during training or timetabled workshops (if student or staff)

- **ENSURE** you are wearing the correct PPE; usually Workcoat, Goggles or Faceshield, Dust Mask and (if adjoining processes in operation, Ear Defenders or Plugs), Sturdy boots also recommended in a workshop environment
- **SET-UP** Machine according to the Technical Staff recommendations
- **SET-UP** cutting fences / guides or stops **BEFORE** starting work
- **Send** nc (toolpath) file design to machine computer via operators pc
- **Switch ON** LEV/Extraction System
- **Place** wood **CAREFULLY** on machine table in a **STABLE** position (i.e. non-rocking) and **ENSURE** vacuum clamping is functioning and holding material in place
- **Switch ON** using **START** control button **ONLY** when you are ready to do so and the above preparation is **COMPLETE**
- **MAKE SURE** the machine is cutting correctly and there is **NO** variation in the depth of cut **OR** material movement when tool is running through cut
- **STOP** machine using normal Red **STOP** button
- **DO NOT** use the Emergency Stop button to stop a machine unless during a genuine **EMERGENCY** or **FAULT**
- **CLEAR** wood and offcuts from the machine table
- **ALWAYS** use a hoover or portable extract machine to **CLEAR** wood dust from table and floor
- **NEVER** use sweeping brushes and a dust pan **OR** blow wood dust off surfaces (allow LEV to run for a few additional seconds after machining)
- **Isolate** machine (or switch to **OFF**)
- **NEVER** exchange operator whilst machine is running
- **ENSURE** complete mechanical stop of machine **BEFORE** handover and power is isolated

Date

I verify that I have read and understood the information detailed within this document

Name

Signature