

STANDARD OPERATING PROCEDURE

ROUTER – FLATBED CNC

**ONLY TRAINED PERSONNEL
AUTHORISED TO OPERATE THIS MACHINE**



Identified Hazards

- Entanglement & Entrapment
- Pinch, Crush & Squash Points
- Eye Injuries
- Manual Handling
- Noise
- Dust & Fumes
- Electricity

Personal Protective Equipment Requirements to Operate



Other | Additional PPE Requirements: Restrain long and loose hair, remove / contain loose jewellery

Operating Instructions

Pre-Operational Safety Checks

- Inspect the machine for obvious damage, including electrical supply, incorrect, bent, blunt or damaged router bits, guarding and safety devices.
- Ensure suitable & safe work area provided with adequate lighting, free from congestion & tripping hazards.
- Ensure you are familiar with CNC “Nesting and Toolpathing” software functionality.
- Locate and be familiar with the operation of the ON / OFF switch and emergency stop button.
- Ensure router cutting bit size conforms to specifications.
- Ensure all cutters are sharp and free of resin build up or wear.
- Be aware of any other personnel in the immediate vicinity and ensure the area is clear before using the equipment.
- Familiarise yourself with all electrical and mechanical operations and controls, including any hand held keypad interface remote control.
- Use only materials that are free of defects.
- Where fitted adjust the dust collector shroud correctly for maximum efficiency.
- Electrically isolate the machine from the power supply if unsafe, making repairs or adjustments, or servicing.

Operational Safety Checks

- **NEVER** operate a faulty piece of equipment. Report any faults, problems or hazards **IMMEDIATELY**.
- Ensure required PPE is available and worn.
- Never pre-program the CNC router table to perform beyond the capacity of the machine.
- Confirm all CNC programming instructions for the table router.
- Ensure sheet material is secure to the work surface bed when cutting and / or engraving sheet materials such as ply, acrylic, aluminium, foam or rubber.
- Ensure all robotic tracking arms remain unobstructed during the cutting / engraving process.
- Never attempt to remove waste materials or excess dusts from the work surface while the machining process continues automatically.
- Never leave the CNC router table in operational mode while unattended.
- On completion, isolate all switches. Leave machine and floor in a safe, clean and tidy state.

REFER TO THE MANUFACTURER’S OPERATIONAL MANUAL FOR FULL SAFETY REQUIREMENTS