



FIXED +  
STATIC PLANT

## SAFE OPERATING PROCEDURES CNC MILL

**DO NOT** use this machine unless a teacher has instructed you in its safe use and operation and has given permission



Safety glasses must be worn at all times in work areas.



Long and loose hair must be contained or restrained.



A mask must be worn when excessive airborne dust or toxic vapours are created.



Appropriate footwear with substantial uppers must be worn.



Rings and jewellery must not be worn near moving machinery components.



Close fitting, protective clothing or a workshop apron is encouraged

### PRE-OPERATIONAL SAFETY CHECKS

1. Ensure you are familiar with CNC 'nesting' and 'tool-pathing' software functionality.
2. Locate & ensure you are familiar with the operation of the ON/OFF and emergency stop controls.
3. Ensure that front guard door and safety devices are in position and secured.
4. Only machine materials that are suitable for this turning process.
5. Ensure that the mill cutter bit size and profile conforms to specifications. This machine must be isolated while any adjustments are made to the milling head or tool cradle.
6. Ensure all cutters are sharp and free of resin build up or wear.
7. Adjust the waste collector shroud (where fitted) correctly for maximum efficiency.
8. Be aware of any other personnel in the immediate vicinity and ensure the area is clear before using this equipment.
9. Familiarise yourself with all electrical and mechanical operations and controls, including any handheld keypad interface remote control.
10. Never attempt to program this CNC machine without proper training.

### OPERATIONAL SAFETY CHECKS

1. Never attempt to program this CNC machine without proper training.
2. Never pre-program any CNC mill to perform operations beyond the capacity of the machine.
3. Confirm all CNC programming instructions for the mill.
4. Ensure that the material work piece is secured before milling.
5. Ensure that the coolant system is operational before milling.
6. Ensure all interchangeable tool head cradle movements remain unobstructed for all operations.
7. Never leave the CNC mill in operational mode while unattended.

### HOUSEKEEPING

1. On completion, isolate the switches. Leave the machine in a tidy, clean and safe manner.

### POTENTIAL HAZARDS

- |                                  |                          |                         |
|----------------------------------|--------------------------|-------------------------|
| ■ Impact, pinch and crush points | ■ Dusts and fumes        | ■ Electrical components |
| ■ Entanglement and entrapment    | ■ Eye injury             | ■ Control errors        |
| ■ Manual handling                | ■ Failure or malfunction |                         |

Date of last review \_\_\_\_\_

Signature \_\_\_\_\_

