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| Fixed Static Plant_SOP  **CNC MILL** | |
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| **DO NOT** use this machine unless a teacher has instructed you in its safe use and operation and has given permission | |
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| Safety glasses must be worn at all times in work areas. | Hair Protection circleLong and loose hair must be contained or restrained. |
| Dust mask sign**Prohibition circle**A mask must be worn when excessive airborne dust or toxic vapours are created. | Foot Protection circleAppropriate footwear with substantial uppers must be worn. |
| **Prohibition circle**Rings and jewellery must not be worn near moving machinery components. | Close fitting, protective clothing or a workshop apron is encouraged Apron |

### **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**

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| **Date of last review** | **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

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