

# Large CNC Cutter



## Instructions Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

Be very careful with viruses/media – as we cannot re-install the software on the PC.

Machine can only be used between 07:00 - 19:00 (be kind to our neighbours).



## Ear protection strongly recommended

Note also that this machine should not be used after 19:00



## Machine can suddenly start

Machine can suddenly start moving; and can move under its own command (even when the PC is off).

It will also start moving without warning when the PC is started/the software is started



## Eye protection recommended

Especially when using very small cutters.



## Crushing

Risk of crushing - the machine does not have any sensors that detect obstacles This includes things such as your hands (do not lean on the blue rail) or tools you've left on the workspace.



## Wear a mask when needed

Especially when cutting materials such as MDF

This machine contains commercial software which is locked to this specific hardware and OS install. Neither of which we can re-install (as we have no media and the suppliers have long gone out of business). So be very very careful with USB sticks and other media. A virus or malware may permanently kill this setup.

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Abene Mill



## Instructions & Approval Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

Must have the 'dangerous equipment waiver' filed with the foundations trustees and been given approval or card access.



### Do not wear gloves

Especially strong leather ones. They get caught easily and then 'help' ripping body parts off.



### Crushing

Risk of crushing - the machine does not have any sensors that detect obstacles.

Note that it can also run very slow; barely noticeable.



### Eye protection recommended

Swarf will fly. Cutters can come loose. Broken cutters can fly very far and are razor sharp.



### Slippery surface

Floor will get very slippery; especially when using coolant.



### Wear protective clothing

Wear tight fitting clothing, keep long hair out tied up, no jewellery or anything else that can be caught by the machine.



### Sharp rotating elements

This machine is essentially a cutter without any guard whatsoever.

Only switch XYZ feeds when the machine is not running. Use the handwheel to get the gear fully locked in prior to starting the feed. Be sure to tighten all 4 nuts post rotating the head or all 4 nuts when moving the head laterally.

Try to avoid getting coolant or similar on the slide-ways - especially the Y slipway between machine and table. Use a shield or adjust the flow. Machine needs to be cleaned post use. When using coolant - also empty the recess on the left of the table and clean out the t-Slots until dry.

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Metal Lathe



## Instructions & Approval Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

Must have the 'dangerous equipment waiver' filed with the foundations trustees and been given approval or card access.



### Do not wear gloves

Especially strong leather ones. They get caught easily and then 'help' ripping body parts off.



### Eye protection recommended

Swarf will fly. Cutters can come loose. Broken cutters can fly very far and are razor sharp.



### Wear protective clothing

Wear tight fitting clothing, keep long hair out tied up, no jewellery or anything else that can be caught by the machine.



### Crushing

Risk of crushing - the machine does not have any sensors that detect obstacles.

Note that it can also run very slow; barely noticeable.



### Slippery surface

Floor will get very slippery; especially when using coolant.



### Sharp rotating elements

This machine is essentially a cutter without any guard whatsoever.

Clean after use - especially when you have used coolant or have used metals that can rust easily or cause a galvanic reaction.

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Wood Lathe



## Instructions & Approval Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

This machine is for WOOD only.

Must have the 'dangerous equipment waiver' filed with the foundations trustees and been given approval or card access.



### **Wear a mask when needed**

Especially when cutting materials such as MDF



### **Eye protection mandatory**



### **Not recommended to wear gloves**



### **Wear protective clothing**

Wear tight fitting clothing, keep long hair out tied up, no jewellery or anything else that can be caught by the machine.

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Mitre saw



## Instructions Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

This machine is for WOOD only.

Machine can only be used between 07:00 - 19:00 (be kind to our neighbours).



### **Wear protective clothing**

Wear tight fitting clothing, keep long hair out tied up, no jewellery or anything else that can be caught by the machine.



### **Wear a mask when needed**

Especially when cutting materials such as MDF



### **Sharp rotating elements**

So keep your fingers away. Bypassing or using your fingers to hold the guard open is downright stupid.



### **Eye protection recommended**



### **Ear protection recommended**

Note also that this machine should not be used after 19:00 if it is that noisy

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Wood Circlesaw Table



## Instructions & Approval Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

This machine is for WOOD only.

Machine can only be used between 07:00 - 19:00 (be kind to our neighbours).

Must have the 'dangerous equipment waiver' filed with the foundations trustees and been given approval or card access.

A second person must be present during operation. This person must have agreed to be your second and needs to know how to stop the machine.

Be sure to attach and power on the dust extractor.



### Ear protection strongly recommended

Note also that this machine should not be used after 19:00



### Eye protection recommended

Especially when using very small cutters.



### Wear a mask when needed

Especially when cutting materials such as MDF



### Wear protective clothing

Wear tight fitting clothing, keep long hair out tied up, no jewellery or anything else that can be caught by the machine.



### Do not wear gloves

Especially strong leather ones. They get caught easily and then 'help' ripping body parts off.

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Wood Bandsaw



## Instructions & Approval Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

This machine is for WOOD only.

Must have the 'dangerous equipment waiver' filed with the foundations trustees and been given approval or card access.

Be sure to attach and power on the dust extractor.



### Ear protection strongly recommended

Note also that this machine should not be used after 19:00



### Eye protection recommended



### Wear a mask when needed

Especially when cutting materials such as MDF



### Wear protective clothing

Wear tight fitting clothing, keep long hair out tied up, no jewellery or anything else that can be caught by the machine.

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Planer



## Instructions & Approval Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

This machine is for WOOD only.

Machine can only be used between 07:00 - 19:00 (be kind to our neighbours).

Must have the 'dangerous equipment waiver' filed with the foundations trustees and been given approval or card access.

A second person must be present during operation. This person must have agreed to be your second and needs to know how to stop the machine.



### Counterrotating rollers

This machine will 'pull' you in using counter rotating rollers. Which ALSO have a ratchet mechanism.



### Eye protection recommended



### Wear a mask when needed

Especially when cutting materials such as MDF



### Ear protection strongly recommended

Note also that this machine should not be used after 19:00



### Do not wear gloves

Especially strong leather ones. They get caught easily and then 'help' ripping body parts off.



### Wear protective clothing

Wear tight fitting clothing, keep long hair out tied up, no jewellery or anything else that can be caught by the machine.

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**



# Jointer



## Instructions & Approval Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

This machine is for WOOD only.

Machine can only be used between 07:00 - 19:00 (be kind to our neighbours).

Must have the 'dangerous equipment waiver' filed with the foundations trustees and been given approval or card access.

A second person must be present during operation. This person must have agreed to be your second and needs to know how to stop the machine.

Be sure to attach and power on the dust extractor.



### Sharp rotating elements

This machine is essentially a cutter without any guard whatsoever.



### Eye protection recommended



### Wear a mask when needed

Especially when cutting materials such as MDF



### Ear protection strongly recommended

Note also that this machine should not be used after 19:00



### Do not wear gloves

Especially strong leather ones. They get caught easily and then 'help' ripping body parts off.



### Wear protective clothing

Wear tight fitting clothing, keep long hair out tied up, no jewellery or anything else that can be caught by the machine.

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Large CNC Laser cutter



## Instructions Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

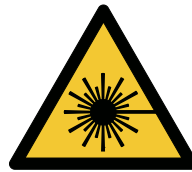
Be sure to check that cooling, air assist and fume extraction fan are all on.

Report any use in the log - and **pay for it!**



## Do not extinguish with water

Use the  $CO_2$  extinguisher (on the pillar to your left). It has a high voltage (kV) power supply.



## Laser beam

Keep the lid closed at all times. If you bypass the safety interlocks - then you are an idiot.

Do not forget to switch on (and off post use) the compressor and fume extraction fan (in the corner near the electric distribution board).

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Small CNC Laser cutter, Extraction



## Instructions Mandatory

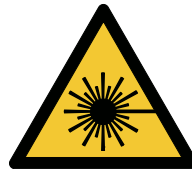
Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

Be sure to check that water cooling pump, air pump (behind the machine) and fume extraction fan are all on.



## Do not extinguish with water

Use the  $CO_2$  extinguisher (on the pillar to your left). It has a high voltage (kV) power supply.



## Laser beam

Keep the lid closed at all times. If you bypass the safety interlocks - then you are an idiot.

Do not forget to switch the fume extraction fan (in the corner near the electric distribution board) post use.

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Large Grinder



## Instructions Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

Noise wise - be considerate to our neighbours - especially in the evenings.



## Wear protective clothing

Wear tight fitting clothing, keep long hair out tied up, no jewellery or anything else that can be caught by the machine.



## Eye protection needed



## Ear protection recommended

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Hydraulic Press



## Instructions Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.



**Eye protection  
needed**

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Sanding Cabinet



## Instructions Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

Do not spray at your hands/fingers. The gloves **will** ultimately give way and they are not cheap.

Do switch off the compressor after use.

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Metal bandsaw



## Instructions Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

Use plenty of cutting oil, WD40 or similar.



## Wear protective clothing

Wear tight fitting clothing, keep long hair out tied up, no jewellery or anything else that can be caught by the machine.



## Sharp rotating elements



## Eye protection recommended

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Vinyl cutter



## Instructions Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.



## Sharp rotating elements

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**



# PCB Reflow Oven



## Instructions Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# T-Shirt hotplate



## Instructions Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Welding equipment



## Instructions Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

Report any use in the log - and **pay for it!**



**Wear a welding mask**



**Use protective apron**

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**

# Ultimaker



## Instructions Mandatory

Instructions **prior** to use are mandatory. Check the wiki for whom can help you.

Do not walk away from the machine until the first 10 layers or so have been deposited.

Do not leave unattended for long periods.

Keep the filament in a sealed container. Exposure to air (humidity) makes it brittle.

If the machine is not clean or appears broken - then report this to the mailing list. Clean/fix prior to use.

**Report any damage, issues or accident within 24 hours to the mailing list.**