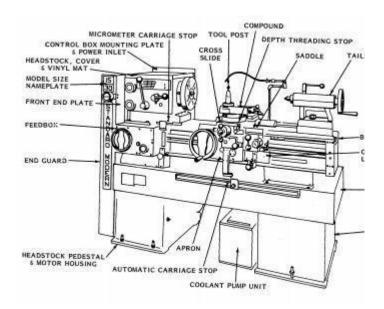
## **Risk Assessment Guidance**

## Title Metal Lathe

This risk assessment has been carried out for the metal lathe located in workshops. This document is a general risk assessment for the use of the metal lathes.

All safety signage should be displayed in this area and only operatives who have been trained are permitted to operate this equipment.

This risk assessment should be reviewed fully by users of the lathe prior to use of such equipment for the first time and in the event that it is not sufficient to control the risk posed by the model in question then the user should report this to the supervisor.



Job Sequence	Hazard Identification	Controls
Conduct pre-operational checks	Poor condition of the guard or chuck.  Damage to the machine or guards.	A log of use must be kept for all lathes when deemed necessary by the manufacturer's instructions and serviced by a competent person as per the manufacturer's suggested intervals.  Units must be visually inspected before each use and damaged machines reported to the workshop manager / supervisor. Damaged machines must not be used until a competent person has examined them. All guards and safety devices including emergency stop button must be in position and operational.  All lathes must be maintained in accordance with the manufacturer's instructions.
Operation of the lathe	Entanglement with moving parts  Risk:  Laceration Bruising Abrasions Breaking of bones	The centre lathe has a number of moving parts – chuck, lead screw and feed shaft.  The chuck must be adequately guarded to prevent contact whilst in motion. Ideally the chuck guard should be interlocked with a micro-switch to prevent operation when the chuck is exposed.  Operators must be made aware that the lead screw or feed shaft rotate in use and may be unguarded with a danger of clothing being drawn in when in use.  The lead screw and feed shaft should ideally be fitted with telescopic guards and must be disengaged when not in use. Operators should also be aware that when using the lead screw and feed shafts the hand wheels will turn and can become entangled with clothing.  The machine should stop within 10 secs (PUWER) but because of the momentum and power of the lathe it is impossible to pull trapped clothing away. No loose clothing to be worn. No jewellery to be worn. Long hair to be tied back. Machine only to be used by personnel after training in its safe operation.

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Materials should not project beyond the headsto gearing cover through the hollow spindle.  Do not start machine with chuck key still inserted. Always clamp workpiece securely to the work be when using lathe for extended periods of time, wear defenders provided.  Ensure that the guard screen correctly shields the when drilling. Wear eye protection.  When turning on the lathe, swarf will be produce Swarf is extremely sharp and should never be he with bare hands, appropriate tools should be em Mild steel and aluminium produce long spirals or and no attempt should ever be made to remove the machine is in motion, as it can draw hands a clothing into the machine.  Swarf should not be allowed to build up around work-piece as it can be violently ejected.  When turning brass the swarf takes the form of sharp pieces, which can enter clothing and be extremely uncomfortable.	d. ed. wear the he bit ed. handled hployed. f swarf it whilst and the
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Swarf and other waste materials  Swarf is extremely sharp and should never be h with bare hands, appropriate tools should be em  Mild steel and aluminium produce long spirals or and no attempt should ever be made to remove the machine is in motion, as it can draw hands a clothing into the machine.  Swarf should not be allowed to build up around work-piece as it can be violently ejected.  When turning brass the swarf takes the form of sharp pieces, which can enter clothing and be	andled nployed. If swarf it whilst and
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work-piece as it can be violently ejected.  When turning brass the swarf takes the form of sharp pieces, which can enter clothing and be	
sharp pieces, which can enter clothing and be	small
Swarf can also be extremely hot and burns can	occur.
Goggles rated for impact must be worn at al	Il times.
The coolant pipe must not be adjusted when the machine is in motion.	÷
Suds oils that have been sprayed from the work onto the floor should be soaked up immediately absorbent material and cleared away. fluid and or suds	
Chucks and face-plates can be excessively heat might require the construction of a purpose-made cradle to facilitate two-person lifting. This cradle also prevent the danger of chucks rolling off the onto the hands and feet of the operator.	de e should
Work Environment General environment, ventilation and lighting levels There must be sufficient light to see the piece be worked clearly.	eing
The lathe should be fitted with a filament or high intensity LED lamp to overcome the stroboscopi of the fluorescent strip lights fitted in the worksh certain speeds the work-piece can appear to be stationary or travelling in reverse due to flickerin fluorescent lights.	ic effect ops. At
Space to operate and handle materials safely.  Chuck and tool-post guards (where fitted) should clean and free from scratches to limit the need for operator to look around them see their work. There must be sufficient space around the unit it to allow the operator a free range of movement.	for the in order
Housekeeping.  Ensure power cables are properly isolated from moving blade.	the

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		Ensure all control devices and in particular the emergency stop (if fitted) are within easy reach of the operator.  Keep the floor around the unit free of oil and grease.
Training	Untrained Person	Only trained operatives are allowed to use lathes.  They must ensure that no unauthorized persons are allowed in the vicinity of the works.  The Supervisor must ensure that the appointed Health and Safety personnel is notified of any significant changes to these works before they commence.
Personal Protective Equipment	Clothing Hand Protection	Suitable personal protective equipment (PPE) must be supplied and used, the user must ensure that the PPE is in good condition and being used correctly.
First Aid		Information for the appointed medical personnel is displayed in workshops.  Make sure you are aware of the first aid provisions in place.  All accidents & near misses must be reported to your Supervisor

All persons working with this equipment or within close vicinity must sign and show that they have read and understood the risk assessment guidance and that they will follow the above control measures set out whilst working.

Additional Guidance	соѕнн	COSHH Assessment Method Statement		Other (Specify)	
	Materia	al Dependent	N/A	-	ned persons are allowed to erate this equipment.
Name					
Signed					Date