Institute of Making UCL

Tool description

The Polishing Machine (also called the Buffing Machine) is used to polish soft metals including copper and brass as well as plastics such as perspex.

General tool safety

PPE
Always wear eye protection.
Wear a dust mask
Wear hearing protection
DO NOT wear gloves

Personal Safety
Do not wear loose clothing.
Remove Jewellery.
Keep hair tied up.

Do not overreach. Stand in front of the device while working. Never work from the side or even from the back. Ensure sufficient stability while you work!

Consider those working around you, inform them before starting the equipment so they can use relevant PPE, ensure there are no trip hazards.

Do not use a power tool while tired or rushed. A moment of inattention and incorrect use of PPE while operating power tools may result in serious personal injury and or death.

Dust, regular cleaning of dust can reduce dust-related hazards.

Power Tool Use and Care

Clamp the tool to a work bench so that it is level and secure. Make sure in all cases that the unit cannot fall or topple, especially during operation.

Check material condition before polishing.
Do Not attatempt to polish material that is cracked or has loose parts to prevent flying objects.
Avoid polishing objects with sharp edges to prevent cuts.

Direction of tool. Material should only ever be angled with the front edge facing down to prevent work piece from being thrown from your grip.

Do not overload the machine. You will only achieve optimum working results within the power range for which the machine is designed.

Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be brought to the attention of a technician before further use.

Hot work pieces can cause burns, take regular breaks when polishing metals Do not wear gloves when operating the polisihng lathe

Do not use the polishing lathe if the fixed guards are not in position.

Never reach into the rotating tool.

To reduce the risk of electrocution or other personal injury, always unplug the tool from the power supply outlet before performing any maintenance, part changes or cleaning work on the tool.

On & Off Emergency stop

The emergency stop is located on the front of the polishing lathe. To release slide the red section of the button to the left.

The on & off switches are located behind the emergency stop.

Fitting polishing wheels

The polishing lathe is fitted with conical spindles on each shaft end, the polishig wheels can be attatched by threading them on following the thread direction on the spindle.

Polishing wheels in ø 150 mm or ø 200 mm are suitable for fitting to the conical spindle

Polishing covers in ø 150 mm or ø 200 mm ensure safety during polishing.

House Keeping

To reduce the risk of electrocution or other personal injury, always unplug the tool from the power supply outlet before performing any maintenance or cleaning work on the tool.

It's important that once you have finished your operation, you clean the tool sufficiently and replace all the components to the designated storage space. If you are unsure where items live, please speak with a technician. Do Not leave them out or place them randomly in the Makerspace cupboards.

Dust and debris from some materials can be extremely abrasive and cause components within the tool to wear prematurely. It is important to keep moving parts cleared of abrasive dusts.

Dust down the tool with the extraction and the brush attachment once finished. Do Not use compressed air to clean the tool as this will put fine dust particles into the atmosphere for others and yourself to breath in. You Can also inject foreign objects into the motor through the ventilation openings.