

SURFACE GRINDER

DO NOT use this machine unless you have been instructed in its safe use and operation

PERSONAL PROTECTIVE EQUIPMENT



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



Long and loose hair must be contained.



Gloves must not be worn when using this machine.



Sturdy footwear must be worn at all times in work areas.



Close fitting/protective clothing must be worn.



Rings and jewellery must not be worn.

PRE-OPERATIONAL SAFETY CHECKS

- ✓ Check workspace and walkways to ensure no slip-hazards are present.
- ✓ Check that the all guards are in position.
- ✓ Inspect both sides of the grindstone carefully. Rotate the stone manually and visually inspect for chips and cracks.
- ✓ Ensure that the workpiece and the magnetic chuck are clean and smooth. (De-burr or hone if required).
- ✓ Locate and ensure you are familiar with the operation of the ON/OFF starter and E-Stop fitted).
- ✓ Double check the magnetic chuck status before engaging power feeds. With the power on physically try to move the workpiece.
- ✓ Don't operate if spindle vibration is present.
- ✓ Do not grind NON FERROUS METALS, as the materials can plug up the stone causing an unsafe condition.
- ✓ Never leave wiper rags or tools on the hydraulic control platform.

OPERATIONAL SAFETY CHECKS

- ✓ Use the hand wheels for set-up.
- ✓ Check the grind stone position before engaging the automatic feed.
- ✓ Ensure that the coolant supply tube clears the workpiece and is secured by the mount bracket..
- ✓ Check the grind stone position before engaging the automatic feed.
- ✓ Never attempt any grinding operation with the magnetic chuck disengaged.
- ✓ Never allow coolant to run onto a grindstone that is not running (turning). Because the grind stone will absorb the coolant causing an out of balance condition.
- ✓ Do not touch off the stone to the workpiece unless the stone is turning at the required RPM. Making contact with the workpiece can cause damage to the stone, workpiece or the arbor.
- ✓ When grinding is complete shut off the coolant flow. Allow the stone to turn at maximum RPM for one minute to extract excess coolant absorbed by the grinding stone.

ENDING OPERATIONS AND CLEAN UP

- ✓ Switch off the machine when work completed.
- ✓ Leave the machine in a safe, clean and tidy state.

Refer to the Risk Assessment for further information.

If in doubt, ASK!

28 September 2026



POTENTIAL HAZARDS

-  Hair/clothing entanglement - rotating spindle/oscillating table.
-  Eye injuries
-  Flying sparks and grinding dust/coolant
-  Sharp edges & burrs

DON'T

-  Do not use faulty equipment. Tag out of service and report any faulty machinery.
-  Do not hold workpiece with gloves, cloth, apron or pliers.
-  Do not grind non-ferrous metals.
-  Never leave the machine running unattended.
-  Do not bend down near the machine while it is running.
-  Never force the workpiece against a wheel.

This SOP does not necessarily cover all possible hazards associated with this equipment and should be used in conjunction with other references. It is designed as a guide to be used to compliment training and as a reminder to users prior to equipment use.

Refer to the Risk Assessment for further information.

If in doubt, ASK!

28 September 2026