



THE UNIVERSITY OF BRITISH COLUMBIA
School of Biomedical Engineering
Faculties of Applied Science and Medicine



Safe Operating Procedures Bench Grinder

DO NOT use this machine unless you have been fully trained on its safe use and operation.



FACE SHIELD must be worn at all times in work areas.



Long and loose hair must be contained or restrained.



Appropriate protective footwear with substantial uppers must be worn.



Leather apron and close-fitting clothing must be worn.



Rings and jewellery must not be worn.



No gloves are worn.

Materials: Steels, irons, ferrous metals. NO ALUMINIUM OR BRASS / OTHER SOFT METAL.

PRE-OPERATIONAL SAFETY CHECKS

1. Locate and ensure you are familiar with all machine operations and controls.
2. Ensure your metal is suitable for this tool! Do not attempt to grind metal that is difficult to hold, awkwardly shaped, or too soft for this machine
3. Ensure all guards are fitted, secure and functional. Do not operate if guards are missing or faulty.
4. Ensure grinding wheels have no cracks or other deformities, they may explode if they do.
5. Check workspaces and walkways to ensure no slip/trip hazards are present
6. Be aware of other people in the area.
7. Ensure the area is clear before using equipment.
8. Check for fire hazards as sparks will be generated.
9. Have a method to cool the metals.

OPERATIONAL SAFETY CHECKS

1. Always place workpiece against table stop, do not allow piece to float.
2. Ensure guard will not fall during work.
3. Do not angle workpiece down towards the ground.
4. Ensure gap between table and grinding wheel is small enough to not allow workpiece through.
5. Wear all PPE (safety glasses, face shield, leather apron).
6. Ensure the wheel used is proper for the task (do not use a polishing wheel for material removal).

HOUSEKEEPING

1. Check the condition of all wheels.
2. Return all accessories to storage racks.
3. Leave the work area in a safe, clean, and tidy state

POTENTIAL HAZARDS

- | | | |
|--------------------------|-----------------------|-------------------|
| ■ Sparks | ■ Propelled materials | ■ Manual handling |
| ■ Crush and pinch points | ■ Abrasives | |