



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



Safe Operating Procedures Waterjet Cutter

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



Safety glasses, dust masks, and hearing protection must be worn at all times.



Long and loose hair must be contained or restrained.



Appropriate protective footwear with substantial uppers must be worn.



Close fitting and protective clothing must be worn.



Rings and jewellery must not be worn.



Nitrile gloves must be worn when handling objects in the water tank.

Compatible Materials: Wood, Aluminum, Plastics, Ferrous Metals, Stainless Steel

PRE-OPERATIONAL SAFETY CHECKS

1. Locate and ensure you are familiar with all machine operations and controls.
2. Ensure all guards are fitted, secure and functional. Do not operate if guards are missing or faulty.
3. Ensure cutting head is firmly seated.
4. Turn on the overhead dust extraction system, open the waterline and confirm pressure, and bring water to an appropriate level in the tank.
5. Check slats for excessive damage or wear.

OPERATIONAL SAFETY CHECKS

1. Never place hands in the tank while the head is moving or operational.
2. Ensure stock is placed flat on the slat bed.
3. Fill hopper with abrasive.
4. Ensure cutting head is above all obstacles before moving.
5. Perform all pre-operation testing.
6. Set cutting head height, material settings, and all operation toolpaths properly and confirm before use.
7. Deburr material after cutting.

HOUSEKEEPING

1. Perform shut down testing.
2. Return all guards to the initial position.
3. Lower water level to below slats.
4. Turn off machine and close water lines.
5. Lock power switch.

POTENTIAL HAZARDS

- Pressure injection injuries ■ Severe cuts / amputations ■ Inhalants