CNSI Innovation Workshop
Bandsaw Safe Operating Procedure
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Location
The Rikon 14" bandsaw with StriaTech variable speed motor is located in 2448 Elings.

Safety Concerns
Serious injury and potential dismemberment can occur from contact with the moving saw blade. Eye injuries can result from flying chips or broken bits. Cuts can occur from contacting sharp tools or exposed chips and burrs. Burns can result from hot cutting tools or parts. Metal splinters can result from exposed burrs or chips. Serious injury can result from pinching or entanglement in moving parts. Poor housekeeping creates tripping and cutting hazards for other users. Do not leave machine running unattended.

Eye protection, closed toe shoes, long pants, and protective clothing must be worn when using this machine to prevent injury. Long hair must be tied back and jewelry must be removed before operating this machine to prevent entanglement.

Training
Training Requirements:

Training Outline:
- Bandsaw System Overview
  - Bandsaw, Motor Controller Unit
  - Exhaust System
  - Supplies, Storage
- Safety
  - Materials: ferrous metals, non-ferrous metals, wood, and plastic can be cut on this saw. If you have questions about a new material, please email the material in question to bothman@ucsb.edu
Safety
Physical:
- The saw blade can cause serious injury and dismemberment.
- Keep fingers at least 3 inches away from the saw blades at all times.
- Keep the saw blade cover no more than a 1/4" above the surface of the stock to minimize exposure to injury.
- Exercise caution when cutting large stock. Have ample clearance area.
- Keep work area clean. A cluttered work area presents multiple hazards.
- The machine is kept locked until the online reservation system can be implemented. The lab staff will keep it unlocked during the workday and can unlock upon request if needed.
- Use the exhaust system and the shop vacuum to prevent inhalation of particulates.

Safe Operating Procedure

Sequence of Operation:
1. Move the saw out from the alcove if cutting large stocks.
2. Adjust the rip fence to the proper length for the cut. Lock the rip fence in place.
3. Adjust the saw blade cover to 1/4" above the workpiece. Tighten the blade cover in place.
4. Power on the motor controller. The power switch is located on the side of the unit.
5. Select the proper material setting on the motor controller. Press once to select the material group and then press the button to cycle through to the appropriate settings.
6. Press On to start the bandsaw.
7. Turn the exhaust system on.
8. Hold the material securely, keeping fingers at least 3 inches away from the saw blade. Use the push stick if necessary.
9. Push the material through the saw blade evenly and slowly. If the sawblade chatters or screams, ease on the feed pressure.
10. Once the cut is complete, press Off on the motor controller to stop the bandsaw. Do not reach for the parts at this time. Turn the exhaust system off as well.
11. Once the saw blade has come to a complete stop, remove your parts. Use a brush or the shop vacuum to clean up any remaining dust.
12. Extend the saw blade cover to cover the entire blade.
13. Power off the motor controller (The motor controller stays illuminated for approximately 15 seconds after switching the power off).
14. Return the bandsaw to the alcove. Clean up any remaining dust on the floor.

Detailed Procedure:
Supplies:
Bandsaw blades are kept in the cabinet of the Bandsaw stand. Notify the lab staff by emailing bothman@ucsb.edu if you break a bandsaw blade. The lab staff will replace it. Resaw bar assembly is kept in the cabinet of the bandsaw stand. Use this to prevent the bandsaw blade from walking and moving during the cut.

References:
Manuals:
Rikon 15" Bandsaw Manual

Other SOP’s:

MSDS:

Sources for Supplies:

Contact Information:

Recipes:

Other References:
StriaTech Motor Information (after market unit)