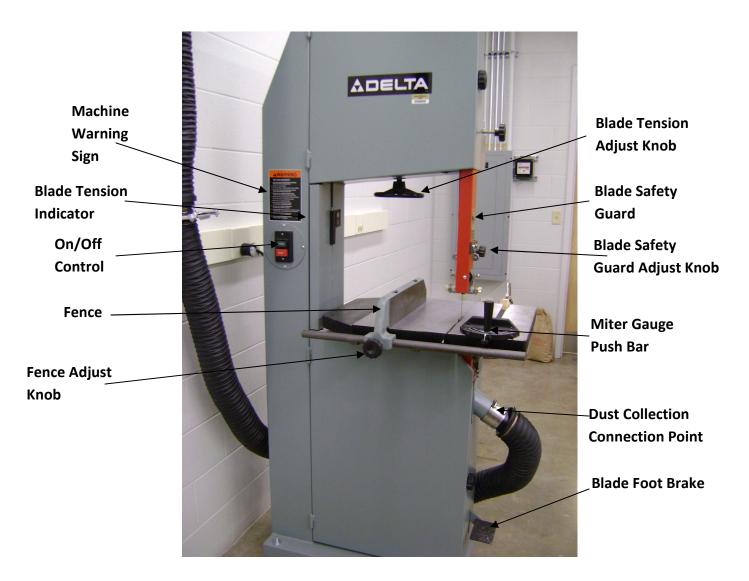
VERTICAL BAND SAW

Armstrong Hall of Engineering Artisan and Fabrication Laboratories (AFL) Safety and Operational Procedure



PPE Required: Safety Glasses

Prohibited Clothing: gloves, loose clothing, neckties, jewelry

Machine Access Level: Supervised Only

Materials Allowed: wood, plastics, composites and any material approved by AFL supervisors

Note: no metal of any kind can be cut using this saw !!

VERTICAL BAND SAW

Operating Procedure

1. Machine Safety Inspection and Work Area Check-Out

- A. **PPE:** make sure you are wearing the proper PPE and not wearing any equipment listed on the first page that could get caught in the saw.
- B. **Machine Warning Signs:** make sure you read and follow the machine warning signs that are attached to the machine. If you have any questions, ASK!!
- C. Work Area: make sure the work area is clean and the work area around the machine is free and clear of debris and personnel.

2. Work Supervision

A. This machine requires supervision by an AFL employee. A Supervisor or TA will assist you in the set-up and operation of the machine. You may not operate this machine without supervision.

3. Machine Adjustment

- A. Note: the machine adjustment is to be done with the machine OFF!
- B. **Check blade tension indicator:** make sure the blade tension corresponds to the size of the blade. Do not adjust the blade tension yourself; the TA will assist you with this step.
- C. Adjust blade safety guard: loosen the blade safety guard adjust knob and slide the blade guard to within ½ inch of the part. Re-tighten the blade safety guard adjust knob.
- D. **Adjust fence:** when applicable, loosen the fence adjust knob and slide the fence to help you control the length of your cut. Re-tighten the fence adjust knob. The TA will assist you with this step.
- E. **Adjust miter gauge push bar:** when applicable, adjust the miter gauge and/or attach push guides to help you move the part through the saw. The TA will assist you with this step.
- F. Identify the machine controls: identify the red stop button and the green start button. These controls start and stop the band saw.

4. Machine Operation

- A. **Dust collection system check:** verify with the TA that the dust collection system is ON before starting the machine.
- B. **Turn the machine on:** check with the TA that it is safe to turn on the machine, and push the green start button when instructed to do so.
- C. **Safely cut the part:** Go slow! Always keep hands and fingers away from the blade. Use the miter gauge push bar whenever possible. Ask the TA for help.
- D. Turn the machine off: when finished with the cut, push the red stop button to shut the machine off.
- E. **Depress foot brake:** after turning the machine off, depress the foot brake to stop the rotation of the saw blade. DO NOT USE YOUR HAND TO STOP THE BLADE!

5. Clean Up

- A. **Disassemble work set-up:** disassemble any fixturing used to hold or push the part through the saw. Return the appearance of the saw to how it looked when you started.
- B. **Clean up the area:** clean up all messes (for example: use a shop vacuum to clean up any additional saw dust), return all tools, etc. The TA will check that the area is clean before you can sign-out of the AFL.