

SCC CMA Training Curriculum

Vertical Band Saw

Objectives: Upon completion the User will be able to operate the Vertical Band Saw in a safe manner. User will be able to replace the blade as needed.

Time required: for a group of 8 users or less it should take about 20 minutes to deliver this material. This allows for quick user interaction with the machine, but no actual practice time.

Outline:

1. Safety
 - a. Clean work area
 - b. PPE / loose clothing / jewelry / hair / no gloves
 - c. Buddy Requirement
 - d. Only 1 person operates the machine
 - e. Workpiece holding / feeding
 - f. Handling blades
2. Machine Anatomy / Parts
 - a. Table
 - b. Blade
 - c. Blade guides
3. Machine Controls
 - a. Power switch
 - b. Gear levers
 - c. Vari-Speed control
 - d. Blade Tension
 - e. Upper Blade Guide release
4. Cutting Techniques
 - a. Feeds and Speeds (no need for high gear, high range – burned up blades)
 - b. Blade selection / about pitch – no less than 2 teeth engaged
 - c. You must use pushsticks or other techniques to keep hands clear of blade
 - d. Cutting round material – rotation is very dangerous!
 - e. Material being cut gets pulled into table (slice is too thin)
 - f. Adjusting the blade guides
5. Changing the blade
 - a. **TURN OFF THE POWER DISCONNECT ON BACK OF MACHINE**
 - b. Open upper and lower blade access doors. Slide blade guard off upper guide
 - c. Remove strip from table recess

- d. Loosen the blade by turning the blade tension crank
- e. Slide the blade out of the machine
- f. Slide new blade into place making sure teeth are pointed in correct direction.
Make sure blade goes into all guides
- g. Crank the tension adjuster until the indicator shows correct tension for blade width
- h. Replace all guides and covers. (machine will not run with either door even slightly open)
- i. Turn power back on, turn saw on and check that blade runs true.