

Vertical Band Saw (Hammer N4400)

METHOD OF OPERATION

*Material is manually passed through a continuous blade to make a cut.

MACHINE HAZARDS

*Cuts, lacerations or amputation by blade

-Controls: adjustable blade guard, fixed blade wheel guard, proper hand placement, proper stance and balance

*Flying debris

-Controls: safety glasses, dust collector

PPE/Safety Measures

*Safety Glasses	*All Jewellery removed
*Hearing Protection	*No loose fitting clothing
*Closed Toed Shoes	*Long Hair tied back and away from face
	*NO gloves
	*Long sleeves rolled up past elbow

Guards and Devices

*Blade guard

-Manually adjusted based on stock height

-Should not be more than ½" higher than material being cut

*Blade wheel cover

-Only needs removed when changing blade (energy control)

*Push block

-Device such as scrap wood used to encroach blade

Operational Notes

*If you are cutting a long board, make sure you have someone to help catch and support the other end of the board until the cut is complete.

*ALWAYS use a push stick when nearing the end of your cut.

*Blade pitch:

- Proper blade pitch prevents blade damage

- Rule of thumb – at least three teeth should be engaged in cross section of material as not to damage teeth

 - For thick material – a relatively coarse blade should be used

 - For thin material – a relatively fine blade should be used

 - See supervisor if blade needs changed for your material

*Feed Rate (manually feeding material through blade):

- Feed Rate should be slow enough to maintain proper blade engagement but should not take excessive time to complete cut.

- Feed Rate will need to be adjusted for different materials.

*Table can be tilted for angled cuts, but ensure that it is returned to level position (square with blade) once cut is complete.

*Hand placement:

- Use hands and fingers to carefully and smoothly guide materials through your blade.

- Keep hands and fingers out of cutting path

- If work piece is small, use a push block to encroach the blade

*Proper stance and balance:

- Distribute your weight as to prevent falling towards blade

- Place one foot slightly in front of the other at shoulder width

Sequence of Operation

1. Ensure work table is clean and free of obstruction or debris
2. Ensure that there will not be anyone working behind or around you while you are making your cut.
3. Loosen the handwheel on the right side of the bandsaw. You may now use the handwheel BEHIND the bandsaw to adjust the blade guard to the appropriate height—about ½ inch above the height of your material. Place work piece in position on table.
4. If needed, position your piece so that it is square against your fence. If you do not require the fence, remove it off the rail. Turn saw ON.
5. Keeping your hands far from the blade, begin guiding your piece through the bandsaw blade. Guide your piece from the back end of your board. If your cut will require your fingers to get within 3 inches of the blade, use a push stick to complete your cut. Have a partner assist in catching the board on the other side of the saw if your board is long.
6. When cut is complete, turn saw OFF. Use the brake.
7. Lower guard completely
8. Clean (brush/vacuum) work table of sawdust or debris.

Never

- *Use faulty equipment. Immediately report suspect equipment.
- *Leave the machine running unattended

Maintenance Notes/Service by Operator

*Contact Shop Supervisor/qualified person for:

- Broken blade
- Blade change
- Any additional help or guidance.