

Safety Awareness Program KDW-05 Band Saw

Introduction.

This safety awareness procedure is to be read in conjunction with a designated member who will demonstrate and expand on the definitions and descriptions of operations described below.

Definition.

At KDWC the band-saws are electrically driven machines that consists of two wheels with rubber tires, on which a continuous saw blade runs, Each band-saw consists of a work-table, upper and lower blade guides for the blade to run through, blade shield and guarding which is designed to totally enclose the blade. These saws are fitted with all appropriate guarding and this guarding is not to be removed under any circumstances, except by the authorized personnel when performing maintenance work.

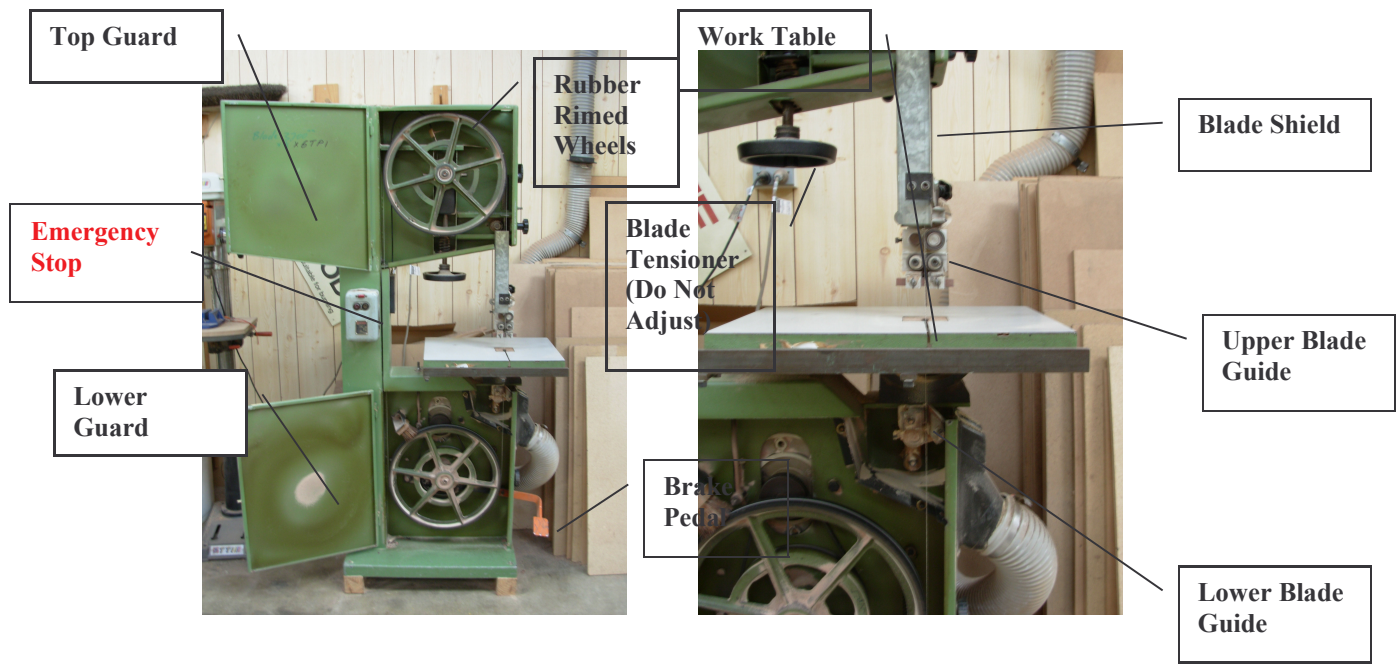
Blades

Saw blades are made of steel and normally at KDWC the band-saw blades should last approximately 2-3 weeks. There are three sizes of band saws in use at the club and each is designed to be used for differing applications. The large band saw has a blade size of 5.2mts x 19mm x 5TPI (teeth per inch) this is only to be used for straight cutting and should not be used for profiles.

The medium band saws have a blade size of 3.935mts x 9.5mm x 6 TPI, this is mainly used for cutting profiles with larger radii (minimum 100mm),

The small band saw has a blade size of 3.7mts x 6.3mm 6 TPI and is mainly used to cut profiles with smaller radii (minimum 75mm).

In the case of all of the band saws when the blade becomes blunt it is time to replace it, the designated member, who has been trained to carry out this operation, normally performs this task. If there is not a trained operator in the vicinity, contact the key holder who will arrange for the blade to be changed when practicable.





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Safety. (General).

Prior to the operation of the Band-Saw the following safety rules must be applied.

- Be aware of the emergency stop procedure. (Ref KDW-01)
- Member must ensure that the extraction outlet is open at all times when operating the equipment.
- All timber must be checked for nails, screws and other imbedded objects through the use of the clubs metal detector.
- Ensure the guards are properly attached. **(Under no circumstances should the band-saw be used with the upper or lower guards open).**
- Check position of blade shield.
- Ensure the member is aware of other members in the immediate area.
- Ensure work area is clear of obstructions that may cause tripping or falling.
- Ensure member is aware of dangers associated with the movement of the blade.
- The dangers of loose clothing or long hair being caught in machinery is well documented, therefore when using this machine, the member must wear the appropriate clothing. (Ref KDW-01).
- Member must ensure that the extraction outlet is closed when operations are complete.

Operation.

The smaller band-saws are used to cut contours in timber and the large band-saw is for straight cuts only. When cutting timber with the band-saw, ensure the upper blade guide is set as close as is practicable or 3mm above the work piece. When cutting, let the blade do the work, there is no need to push hard for the blade to cut, a gentle even pressure on the work-piece applied to the blade and the saw will cut through at an even speed. **(Do not use blunt or damaged blades).** The operator must take extreme care in the placement of his/her hands and fingers and must be aware at all times of the danger of contact with the moving blade. When cutting small pieces of timber a push stick must be used to ensure that the hands and fingers are well away from the moving blade. **(Do not touch the moving blade).** On completion of the band-saw operation and prior to leaving the band saw, ensure the machine is switched off and the blade is stopped through the use of the foot brake where fitted. When cutting profiles follow the guide line you wish to cut to and move the work piece slowly, ensuring the blade is not twisting. The band-saw must be regularly serviced and maintained with the setting of the blade guides checked and adjusted as required. **(Logs and other round or odd shaped timber must not be cut on any of the band-saws).**

Housekeeping.

When operating any machinery or equipment ensure there are no obstacles, work or any other obstruction cluttering the work area. It is part of each member's responsibility to clean up the machine and surrounding area after use and ensure an adequate level of housekeeping is maintained throughout the workshop area ensuring the safety of themselves and all other members.

Conclusion.

The above safety requirement is intended to ensure the safety and well being of all club members, for detailed instruction on the operation of the above equipment refer to the appropriate club members. It is expected that each member will ensure that all work undertaken is carried out with consideration and due care for all.