

Safety Awareness Training KDW-10 Pedestal Drill

Introduction.

This safety Awareness procedure forms part of the Knox and District Woodworkers Inc. Safety Awareness Program, and details the safety requirements to be adopted in the operation of the equipment described below.

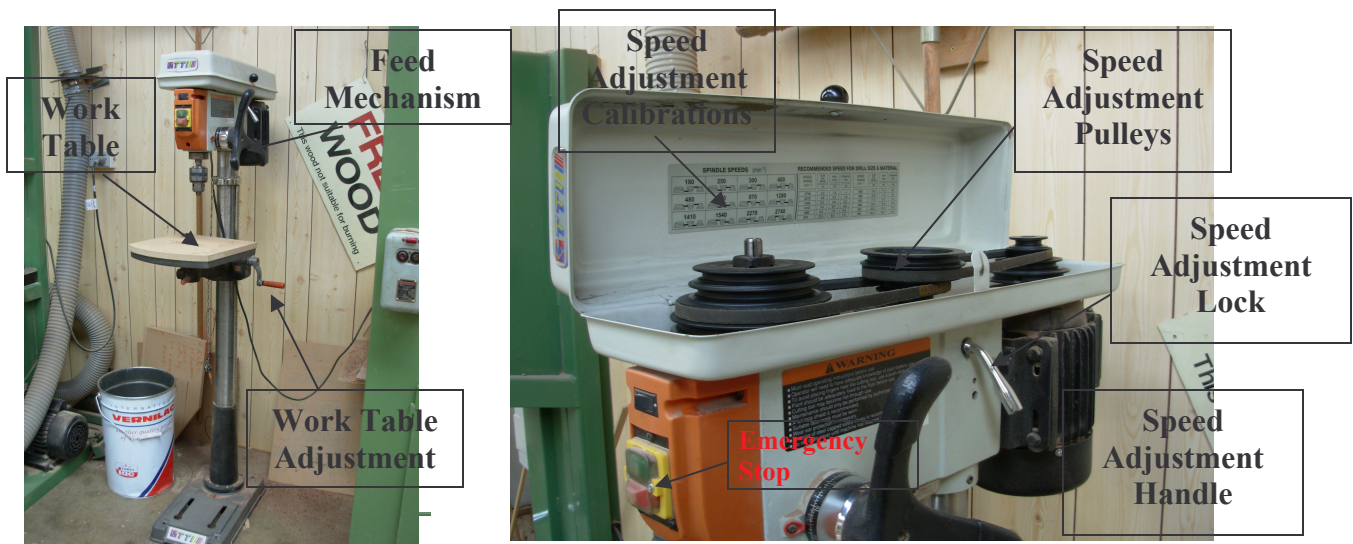
Definition.

The Pedestal Drills at KDWC are electrically powered belt driven machines that consist of a drilling head, work table which can be adjusted either vertically or horizontally and is designed for the drilling of holes in most materials. This is achieved through the securing of a drill bit in either a chuck or Morse tapered arbor and mounting the work piece on the table through the use of purpose built clamping fixtures, normal clamps or vice. The work is located under the drilling head and the drill is then lowered onto the work-piece through the use of a hand operated feed mechanism. This operation allows the drill bit to drill the hole to the required depth.

Safety. (General).

Prior to the operation of the Pedestal Drill the following safety rules must be applied.

- Be aware of the emergency stop procedure. (Stop button is located at the front of the machine).
- 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 chuck and drill bit.
- 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).
- Ensure the machine is adjusted appropriately to prevent the cutter or drill bit penetrating the work table.





Safety Awareness Training KDW-10
Pedestal Drill

Operation.

The drilling of holes using a pedestal drill normally consists of two basic operations, securing the work-piece and drilling the holes. **The member must ensure the Chuck Key is removed** and securely positioned prior to turning the drill on. The work-piece should be securely clamped during the drilling operations and care must be taken in the positioning of the work-piece prior to starting the machining operation. During the drilling operation raise the drill bit several times to clear the hole and prevent the build up of waste causing excess heat and damaging the work-piece. The member must also be aware of the danger of his/her hands coming in contact with the drill bit and the chuck therefore keep hands and fingers clear of the drill bit and chuck at all times.

Drill Speed

Drilling speed depends on the size and type of drill you are using, the general rule for all drilling operations including hole saws is small drill fast speed and large drill slow speed. In the case of Forstner bits the recommended speed is 450 RPM for all sizes. (The chuck speed calibrations are printed on the inside of the top cover of the drill, whilst on the other drill the speed is shown on the digital readout).

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 the members responsibility to ensure an adequate level of housekeeping is maintained around each machine to ensure 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.