City of San Angelo 72W College Ave 2nd Floor San Angelo TX 76902



| Worksite: | Instructor: | Date/Time: |
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Topic C189: Rotary Hammers & Hammer Drills

Introduction: Rotary hammers and hammer drills are made to drill into concrete, brickwork, and all types of hard masonry. They are much more efficient than a standard drill and masonry bit. They are powerful machines and must be operated knowledgeably and carefully to avoid damage to property or injuries to the operator. The following safety rules for rotary hammers/hammer drills will aid supervisors and workers in the safe operation of these tools:

Use the following Personal Protective Equipment when using these machines:

- Safety glasses or a face shield
- Gloves
- Dust mask or Respirator (if drilling a material that will produce dust).
- Hearing protection (Hammer drills are likely to cause noise in excess of 85 decibels)
- Any personnel working adjacent will also need to wear hearing protection and possibly a dust mask.

Using Rotary Hammers and Hammer Drills:

- Supervisors must ensure that employees who operate rotary hammer drills are trained in the safe operation of these tools.
- Understand all of the controls and functions of the drill before use. Do not try to reverse the machine when it is running.
- Debris from this machine can be hazardous to your health and cause damage to adjacent property.
- Do not use any equipment that is damaged. Do not use taped or repaired cable connections.
- These machines should only be operated on a proper work platform or scaffold; do not use them on ladders.
- Check that machine cables, plugs and all equipment are sound and ready for use.
- Use both the stabilizer and side handle when operating rotary hammer drills, adjust it to a comfortable working position.
- Make sure the tool is able to drill the size of hole you require. Never try to enlarge an existing hole or it may jam.
- Do not try to reverse the drill while in operation; stop the machine completely first.
- Only use the correct type of drill bit for the machine; standard drill bits may shatter creating a safety hazard.
- Always disconnect the drill before changing the drill bits or chisels.
- If you are drilling through a wall make sure that the rubble or debris caused by the drilling will not harm any person or property on the other side of the wall.
- Always make sure there are no hidden electrical lines or pipes before drilling.
- Remove the drill often to clear the dust and debris from the hole; this will help to prevent jamming.
- Be careful when blowing chips or debris from the hole as this can cause eye or skin injury.
- Keep the air vents on the machine clear and unblocked.
- Rotary hammers and drills are powerful tools; switch them off if the tool sticks or seems unsafe. If the drill sticks, stop the machine and unwind it by hand.
- Do not use the drill in an explosive or flammable environment. The sparks from the armature could cause an explosion or fire.

<u>Electrical Safety:</u> Use a ground fault circuit interrupter (GFCI) device plugged directly into a power socket. This will minimize the risk of an electrical shock, by disconnecting the power if a ground fault or short circuit is detected. The GFCI test button should be checked before starting each work task. Reset the GFCI according to the manufacturer's instructions. If you use an extension cable, do not use a cable longer than 100 feet because of voltage drop. Place the extension cable carefully to avoid sharp objects, liquids, or positions that traffic might run over. Unroll the extension fully or the cable can overheat and catch fire!

Conclusion: During extended use, rotary hammers and hammer drills can cause vibration fatigue to the operator. Regular breaks should be scheduled to prevent fatigue from becoming a hazard to the operator. Use these guidelines for safe rotary hammer and drill operation.

| Employee Attendance: | (Names or signatures of personnel who are attending this meeting) | | | | |
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These guidelines do not supersede local, state, or federal regulations and must not be construed as a substitute for, or legal interpretation of, any OSHA regulations.