

CORE DRILL

Operation:

- * Roll the drill so that the spindle is positioned over the desired drilling location.
- * Using the leveling screws located on the four corners of the base, level the core drill to insure that the bit will drill a straight, vertical hole.
- * Vacuum Hold Down - requires that the surface of the intended drilling area be smooth or of an even texture in order to achieve an effective bond to the drilling surface. A large hold down base and vacuum pump is used to fasten the drill to the work surface.

Drilling Technique:

- * Secure the core drill to the work surface so that there is no movement in the drill that would cause the core bit to bind in the hole.
- * Insure that the hole is constantly flushed of abrasive fines by supplying a sufficient flow of water.
- * Slowly lower the bit into the hole so that there is no skidding or lateral movement of the drill. The entire circumference of the core bit should penetrate the drilling surface before additional pressure is applied to the handle.
- * Exert steady downward pressure while drilling. NEVER force the bit into the material!
- * Do not stop the flow of water or rotation of the bit while the core bit is drilling.
- * Check the core bit if the drilling rate decreases noticeably. The slowing penetration rate generally indicates that the bit is in need of reconditioning.

Vacuum Hold Down Operation:

- * Mount the column and carriage in the large vacuum hold down base.
- * Connect the vacuum pump to the vacuum base.
- * Wet the work area in order to achieve an effective seal.
- * Connect the vacuum pump cord into the top outlet of the receptacle in the switch box above the motor. This will start the pump and create a seal between the base and the work surface.
- * Adjust the leveling screws so that the core drill is level and resting lightly on the vacuum seal.
- * Adjust the leveling screws so that the base is snug against the work surface.

NOTE: (Excessive tightening of the leveling screws will break the seal between the base and the work surface).

- * To turn the vacuum pump off, unplug the power cord.