



## These Instructions Must be Read by the User Before Operating the Equipment

### Diamond Drills

**The diamond drill rig must be operated correctly according to the manufacturer's or owner's operating instructions which are available on request if required**

Wear personal protective equipment as necessary; gloves, overalls, safety goggles, dust mask and hearing protection  
Loose clothing, sleeves etc should be avoided. Long hair should be tied back  
When noise levels are uncomfortably high at 85-89 dB(A), it is advisable to wear hearing protectors  
At still higher noise levels, when it is necessary to shout to be heard, (at 90 dB(A) and above) the law requires that hearing protectors must be worn.  
Before starting the unit the operator should familiarize himself/herself on how to stop it  
ENSURE that you understand all the controls before commencing operations  
CHECK that all persons and animals are clear of the work area  
DO NOT use in flammable atmospheres where there is danger of an explosion  
ENSURE that there is adequate space around the machine and/or workplace.  
If necessary, barricade off the area  
Only attachments supplied by the Hire Company must be used  
The unit is designed to drill large diameter holes in walls, ceilings and floors through reinforced concrete, masonry or stone. DO NOT use the unit for any other purpose as misuse or carelessness can cause serious damage or a fatal accident  
Use the correct grade of core drill as supplied by the Hire Company  
ENSURE that the cooling water supply is clean and of an adequate flow rate for the operating machine  
**ENSURE** that there are no hidden electrical cables, water or gas pipes under the surface of the area you are working  
When drilling on a smooth floor at right angles to the unit then the vacuum plate (if supplied), will be strong enough to hold the unit in place.  
In all other drilling applications such as drilling at right angles or in to walls or ceilings then the unit **MUST** be additionally braced and/or anchored.  
If the unit is without a vacuum plate then it will be required to be braced and/or anchored for all applications.  
**DO NOT** force the cutting process, a constant pressure is all that is required.  
**DO NOT** disconnect the water supply until the unit has been switched off and depressurised.  
**CHECK** regularly that all ventilation grills or holes on motor housings are clear and free from dirt.  
**DO NOT** attempt repairs. Contact the Hire Company.

**CHECK** that the voltage of the supply is correct. The diamond drilling rig will be either 110V or 230V.

The use of a low voltage machine at 110V (CTE) will effectively eliminate the risk of death and greatly reduce the degree of injury from an electric fault. Use a machine with the lowest possible voltage to suit the job.

**DO NOT** use domestic plugs and sockets on construction sites, they are not robust enough.

**When using a 230V machine the risk of injury or death from electric shock is unacceptably high unless the following precautions are taken:**

a) Use RCD power breakers at the supply socket to give protection for both the machine and its power cable.

b) The RCD should be protected from dust, wet weather, mechanical damage and vibration.

c) The tools, cables and RCDs should be checked every day (or every shift) using the following as a guide:

- **CHECK** that bare wires are not visible
- Make sure that cables are not damaged and free from cuts and abrasions (apart from light scuffing)
- **CHECK** that the plug is in good condition, the casing is free from cracks, the pins are not bent or the socket is not blocked with debris or dirt
- **ENSURE** that there are no taped or other non-standard joints in the cable
- **CHECK** that the cable covering has not been pulled out of the grips at the plug or equipment. (The coloured insulation of the internal wires should not be visible)
- **CHECK** the equipment for damage and **CHECK** for loose or missing parts or screws
- Make sure that there are no overheating or burn marks on the plug, cable and equipment
- **CHECK** the operation of the RCD power breaker by operating the test button.

**26** A diamond drilling rig using 110 volts should be checked weekly as in 25(c) above.

**27** If the automatic cut-out operates, allow the motor to cool before re-starting.

**28 DO NOT** carry the machine by its cable or disconnect a plug by pulling its cable.

**29** Unplug from the power supply before making adjustments to the machine.