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DIAMOND DRILLING MACHINE - Hand Held (110/230v)

SAFETY PRECAUTIONS & WARNINGS

It is in the interests of those operating this equipment, and for the safety of others, that these **SAFETY PRECAUTIONS & WARNINGS** are carefully read and understood before operating this equipment.

PURPOSE

1. This equipment is designed for cutting large diameter holes in concrete, masonry, stone floors, walls and ceilings.

PERSONAL SAFETY

2. This equipment is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it. It must not be operated by minors, or by anyone under the influence of drugs or alcohol.
3. If the equipment is not used in a safe, careful and controlled way, personal injury or injury to others may result.
4. Before attempting to operate this equipment you must familiarise yourself with the equipment, its controls and operating characteristics.
5. Before starting your work, think and plan ahead to ensure you, and others around you, will be working in a safe environment.
6. When using this equipment, it is recommended that the following items of Personal Protective Equipment (PPE) be worn:
 - Ear defenders to provide protection up to 94dB(A).
 - Dust mask to protection up to EN149 ffp2(s).
 - Impact resistant goggles to EN166-B or BS2092, grade 1 protection.
 - Appropriate industrial gloves.

NOTE: Other types of work, or environment, may require a higher level of PPE.
7. With regard to electrical safety implications when using this equipment, see the section on 'ELECTRICAL SAFETY' below.

ELECTRICAL SAFETY

8. The operating voltage of this equipment may be either 110v (yellow industrial plug connector), or 230v (square pin or blue plug connector).

110v DIAMOND DRILLING MACHINES (Yellow Plug)

9. Only use a portable transformer and only plug the transformer directly into the 230v socket.
10. Only suitably rated, heavy-duty 110v extension cable, not longer than 50m (160ft), must be used between the transformer and the equipment. Do not use 230v extension cables.
11. When routing the extension cable, avoid immersion in liquids and trapping the cable in windows, doorways and other areas that could cause damage to the cable. Avoid laying the cable in areas that are subject to site traffic. Ensure all connections are kept dry.

230v DIAMOND DRILLING MACHINES (Square Pin or Blue Plug)

12. To safeguard against electrical shock, always connect the equipment into a residual current device (RCD) that in turn is connected to a 230v socket.
13. Before using the equipment, press the 'RED' test button on the RCD to ensure that it is working. Re-set the RCD according to the instructions provided.
14. Only suitably rated, heavy-duty 230v extension cable, not longer than 50m (160ft), must be used between the mains (RCD) and the equipment.
15. When routing the extension cable, avoid immersion in liquids and trapping the cable in windows, doorways and other areas that could cause damage to the cable. Avoid laying the cable in areas that are subject to site traffic. Ensure all connections are kept dry.

OPERATING AREA SAFETY

16. Before commencing work, ensure that the area you are to operate the equipment in is a safe environment. Erect safety barriers and warning signs as necessary.
17. Make sure that the work area is clear of obstructions and hazards (projections, cables, pipes, etc.).
18. Before commencing work, warn others who may be working in the vicinity of the equipment, to keep clear. If possible place safety barriers around your work area.
19. Anybody who is working near to you will also need to wear the appropriate PPE.
20. Protect others from noise, dust and debris.
21. Do not use this equipment where there is a danger of igniting fumes from petrol, or gas cylinders.

BEFORE OPERATING THE EQUIPMENT

SAFETY CHECKS

22. Visually inspect the equipment and all its accessories (machine, core drill, cables, plugs, safety barriers, etc.) for serviceability (completeness, signs of damage, undue wear, etc.). Do not use the equipment if found damaged or worn - contact the hire company immediately.
23. Before attempting to operate the equipment, familiarise yourself with the equipments controls. Make sure you understand their purpose and function.
24. Ensure that there are no hidden cables, pipes, etc. in the area you are to drill.
25. Do not use this equipment in the rain or where it could become wet.
26. Before you start the equipment, you must know how to **STOP** it in an emergency.

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OPERATING THE EQUIPMENT

USING THE EQUIPMENT

27. Always select the correct type of core drill for the work to be undertaken.
28. Where possible, secure work pieces by clamping before drilling.
29. The equipment must be securely held and controlled with both hands when drilling.
30. The core drill must be of sufficient length to penetrate fully the surface being drilled.
31. Ensure other people on the other side of floors, ceilings and walls are protected against falling rubble and debris.
32. Be aware that your drill may operate at more than one speed and may have a speed sensitive trigger. Adopt the correct speed for the size of the drill you are using and the material being drilled.
33. Never attempt to change the speed and direction of the drill whilst the machine is running.
34. Do not attempt to drill holes larger than 150mm (6ins) in diameter with this equipment.
35. The equipment may be multi-speed and have clockwise and anti-clockwise direction controls. Ensure these are set correctly before switching-on the equipment.
36. Some machines will either have a dust extraction system or have a water coolant system.
37. If using water, make sure the equipment has an adequate supply of water at all times when drilling and adequate means of draining away waste water.
38. Do not allow water to contact any electrical items or cables and any surface that may become damaged by water.
39. Always stop the equipment before removing the core from the drill bit and removing accumulated any rubble or debris.
40. Keep the equipments electrical cable clear of the core drill.
41. Stop working and switch-off the machine if someone approaches you.
42. Stop the equipment and un-plug the equipment before moving it, making any adjustments or changing the core drill.

SECURITY AND MAINTENANCE

43. Visually check the condition of the equipment at the start of each day.
44. If the equipment operates erratically, or incorrectly, do not use and do not attempt to repair it. Inform the hire company.
45. Periodically clean the equipment to ensure it is free from dust, dirt and other debris.
46. When the equipment is left unattended for long periods (i.e. overnight), ensure it is made secure to prevent unauthorised use or loss.

COLLECTION & PICK-UP

47. For safety reasons this equipment requires you to use a **VAN** or an **ESTATE**.

