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Using the Diamond Drilling Machine

- 1. Wear protective equipment including ear defenders and goggles.
2. Check there are no hidden cables or pipes before drilling.
3. If core drilling into a slab or block of masonry that is not yet part of a fixture, it should be securely clamped or held in a vice.
4. Always grasp the machine with two hands on the handles provided. The on/off switch can be controlled with either the right or left hand.
5. Do not try to change speed or direction of rotation of the core drill or switch the hammer action on or off while the machine is running.
6. Keep the core drill rotating while drilling and when withdrawing the drill bit.
7. When withdrawing the drill bit on completion of drilling the hole, take care that the core of masonry which may inside the core drill does not fall out injuring feet.
8. Stop the machine and unplug before removing the core of masonry or any rubble from inside the core drill.
9. Keep the cable clear of the core drill and any sharp edges on the work.
10. If the cable appears to be cut or damaged in any way, switch off the machine and unplug at the mains before inspecting it. If the cable attached to the diamond drilling machine is damaged stop using the machine. Contact the hire company. If an extension cable has been damaged, do not use it again.
11. Take care not to accidentally pull the plug from the socket.
12. Switch off and remove the plug from the socket before leaving the diamond drilling machine unattended.
13. If the equipment does not work properly, do not attempt to repair it. Contact the hire company.

Keep this leaflet safe as it may be required for reference at a future date



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Diamond Drilling Machine – Hand Held

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

It is important to read all of this leaflet BEFORE you use the Diamond Drilling Machine



- 1. Electricity can be hazardous and must always be used with great care.
2. Plan how to tackle the job and try to foresee any problems that may occur in order to work safely around them.
3. This diamond drilling machine may cause injury to persons or damage property if it is not handled and used carefully and properly.
4. If you have not used a diamond drilling machine before, you should seek some instruction from a competent person, and take the time to familiarise yourself with the equipment before you start work.
5. If using water to cool the core drill and to clear the dust and particles, ensure the electrical parts and connections do not get wet.
6. This hand held diamond drilling machine is designed to drill large diameter holes through masonry, brick and concrete in walls and floors.
7. The following items of personal protective equipment must be worn: Impact Resistant goggles; dust mask – minimum of FFP3(s) protection; ear muffs or plugs giving protection at the ear for levels up to 80 dB(A); suitable protective gloves; rcd if using a 230/240 volt (mains) supply.
8. This machine must not be used by minors or by anyone under the influence of drugs or alcohol.
9. This diamond drilling machine is designed for operation by an able bodied adult. Anyone with either a temporary or permanent disability must seek expert advice before using the machine



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1. Hand held diamond drills are designed primarily to be used 'dry', that is, used without water as a coolant. If using water as a coolant, ensure an adequate supply of clean water either from the mains or a water tank.
2. If using water with a vacuum dust extraction system, usually with a vacuum dust extraction system.
3. Ensure the water can drain away safely. If the hire company supplied water collection equipment, use it.
4. Ensure adequate water flow to the core drill when drilling.
5. Do not disconnect any water hose until the drill has been switched off, unplugged and any water supply turned off (water tap/valve turned off).
6. The machine will only operate on one voltage: 110v or 230v. 110v machines will have a yellow industrial plug fitted. 230v machines will have either a normal square pin plug fitted or a blue industrial plug.
7. Read the instructions below for the machine.
8. Ensure the instructions are dry and safe.
9. Ensure any extension cable connections are dry and safe.
10. If the extension cable is damaged, do not use it.
11. If the extension cable is damaged, do not use it.
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13. If the extension cable is damaged, do not use it.

1. Do not use this diamond drilling machine where there is a danger of explosion. It will ignite fumes from petrol or gas cylinders.
2. Make sure the area is clear and safe and that no-one else is present.
3. Protect other people from the noise and debris. Warn people that the area is likely to break through a wall where the 'breakthrough' zone and post a lookout to.
4. If water is not being used on the other side, erect barriers around the 'breakthrough' zone and post a lookout to.
5. Ensure there are no hidden electric cables or service pipes present where the drilling is taking place.
6. The following items of personal protective equipment (PPE) are the minimum that should be worn whenever this machine is used. Particular jobs or environments may require a higher level of protection.
7. Impact resistant ear muffs/plugs must be worn when working with this machine.
8. This machine is likely to cause noise levels up to 80 dB(A) – appropriate ear muffs/plugs must be worn to give protection at the ear.
9. If water is not being used as a coolant an appropriate dust mask (minimum FFP3(s) protection) must be worn to protect from dust particles, etc.
10. Anyone who is working close-by will also need to wear appropriate personal protective equipment.
11. Check the drilling machine, cable, plug and all other equipment. If anything is found to be damaged do not use the diamond drilling machine – contact the hire company.
12. Switch the diamond drilling machine off and unplug it before changing the core drill.
13. Diamond core drills are designed either for 'dry' use or for use with water as a coolant. Use only the correct grade core drills as recommended by the hire company for the material being drilled. See the section headed 'Water as a coolant below'.
14. Larger core drills use a pilot drill within the core bit to keep it central while starting.
15. The pilot bit should be removed from the core bit once the hole has a good start. The rest of the core can be drilled without the pilot bit.
16. Machines designed to run directly from 230v mains to move it about – it may be heavier than it looks.
17. Take care not to injure yourself when trying supplied. If a portable transformer has been used to power the machine from a normal mains 230v supply.
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