



For guidance on managing construction health risks go to www.hse.gov.uk/construction





0514 Safety Guidance



Using the Diamond Drilling Machine

- Wear protective equipment including ear defenders and goggles.
- Check there are no hidden cables or pipes before drilling.
- 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.
- 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.
- 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.
- Keep the core drill rotating while drilling and when withdrawing the drill bit.
- 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.
- Stop the machine and unplug before removing the core of masonry or any rubble from inside
- Keep the cable clear of the core drill and any sharp edges on the work.
- 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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OF IL WILL OVERTIE & AND COULD CALCIT THE. places where vehicles might run over it. Unroll it fully doorways or windows where it might be trappe Lay it out carefully avoiding liquids, sharp edges



than 50 metres (160 feet) should rated extension cable of no longe instructions, a suitably neavy сошрапу. If the nire company instructions given by the hire

It an extension cable is required, follow any special tructions supplied with it. Use the "TEST" button to check the RCD is working each time it is used. Reset the RCD according to the

if the cable or machine is damaged. help protect against electric shock machine into the RCD, this will TITEL 230 volt socket. eth of into the directly into the

USE A FESIOUAI CUFFET DEVICE 230 VOLT EQUIPMENT (SQUARE PIN OR BLUE PLUG)

Ensure any extension cable connections are dry and Unroll it fully or it will overheat and could catch fire. trapped and places where vehicles might run over it. sparp edges, doorways or windows where it might be rsy the extension cable out carefully avoiding liquids,

transformer and the machine. extension cable must only be used between the suitably rated heavy duty 110v extension cable should be used, not longer than 50 metres (160 feet). The instructions given by the hire company. If the hir company have not given any special instructions, If an extension cable is required, follow any special



socket. Do not use any 230v extension transformer directly into the 230 volt If using a portable transformer plug the 110 VOLT EQUIPMENT (YELLOW PLUG)

Read the instructions delow for the machine. fitted or a blue industrial plug. S30v machines will have either a normal square pin piug

110v machines will have a yellow industrial plug fitted. The machine will only operate on one voltage: 110v or 230v ELECTRICAL SAFETY

TUTNED OTT (WATER TAP/VAIVE TUTNED OTT).. been switched off, unplugged and any water supply Do not disconnect any water hose until the drill has

Ensure adequate water flow to the core drill when anbbjied water collection equipment, use it.

er can drain away safely. If the hire company FUZITIE THE WASTEWATER WILL NOT CAUSE DAMAGE. UNECK OI CIGSU WATER EITHER TYOM THE MAINS OF A WATER TANK

It using water as a coolant, ensure an adequate supply ranslly with a vacuum dust extraction system. need 'dry', that is, used without water as a coolant,

Hand held diamond drills are designed primarily to be WATER AS A COULANT

increase the depth that the core drill can penetrate. of the core drill/machine combination. This does not Extension bars can be used to extend the overall length 100mm (16") long.

drilled right through. Core drills are available up to the brick or masonry remains inside the core drill until Ensure the core drill is long enough to go right through the wall or floor to be drilled. Remember the 'core' of

cole bit; this pilot bit can be just pulled from the core shank, with a drive peg that locates in the slot in the The pilot bit may have a larger diameter boss on the special drill tool to remove it.

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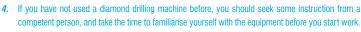


Diamond Drilling Machine – Hand Held

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.
- Plan how to tackle the job and try to foresee any problems that may occur in order to work safely around them.
- This diamond drilling machine may cause injury to persons or damage property if it is not handled and used carefully and



- 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.
- This hand held diamond drilling machine is designed to drill large diameter holes through masonry, brick and concrete in walls and floors.
- 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 230/240volt (mains) supply.
- This machine must not be used by minors or by anyone under the influence of drugs or alcohol.
- 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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keep it central while starting.

before changing the core drill.

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drilled without the pilot bit. the hold has a good start. The rest of the core can be The pilot bit should be removed from the core bit once

Targer core drills use a pilot drill within the core bit to section headed "Water as a coolant" below. company for the material being drilled. grade core drills as recommended by the nire e with water as a coolant. Use only the correct Diamond core drills are designed either for 'dry' use or

Switch the diamond drilling machine off and unplug it сове овігга

оп тае актопа-апшад таспіпе, клом пом то stop it

Ensure you understand the controls. Before switching tits between the machine and the core drill bit. pe a dust extraction head or water coolant adaptor that

On some diamond drilling machines there will either The settings are correct detore commencing work.

Most hand-held diamond core drilling machines can the increased torque. up to 150mm (6"). Do not attempt to drill large holes unless confident the machine can be controlled with

and held drill is suitable for use with core drills arger diameter core drills.

drills, a slower speed should be used when using Though higher speeds can be used with smaller core the rotational speed of the core drill.

the drilling. More pressure on the trigger will increase SIOWIY IT THE TRIGGER IS SQUEEZED GENTLY IN ORDER TO START sensitive trigger that allows the core drill to rotate operate at more than one speed. Some have a speed Most hand-held diamond core drilling machines blue industrial plug.

will have either a normal square pin plug fitted or a





If a portable transformer has been required to power the machine from a mornial mains company will have provided a portable transformer if are designed to run off a special 110v supply. The hire Machines with a cylindrical yellow industrial plug fitted not try to torce connections or improvise them. Check the plug on the machine matches the supply. Do use the dismond drilling machine - contact the hire

Machines designed to run directly from 23UV mains

supplied, take care not to injure yourseff when trying

to move it about - it may be heavier than it looks

Check the drilling machine, cable, plug and all other equipment. If anything is found to be damaged do not

give protection at the ear.

ВІРМОИВ ВВІГГІИВ МАСНІИЕ vear appropriate personal protective equipment.

Anyone who is working close-by will also need to dust mask (minimum FFP3(s) protection) must be worn to protect from dust particles, etc. If water is not being used as a coolant an appropriate

(A) Appropriate ear muffs/plugs must be worn to This machine is likely to cause noise levels up to 80

Impact resistant goggles must be worn when working nay require a higher level of protection. (PPE) are the minimum that should be worn whenever this machine is used. Particular jobs or environments The following items of personal protective equipment

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pipes present where the drilling is taking place. Ensure there are no hidden electric cables or service warn people of the danger. around the 'breakthrough' zone and post a lookout to

people may be present on the other side, erect barriers If the core drill is likely to break through a wall where

others to keep away. Barrier off work area. Protect other people from the noise and debris. Warn is close-by or could cause distraction.

Make sure the area is clear and safe and that no-one bettoi or gas cylinders.

is a danger of explosion. It will ignite fumes from Do not use this diamond drilling machine where there **WUKK AKEA**

