

# HSS Hire Shops



## Diamond Core Drill

Portable Diamond Drill kit to drill holes of 52, 107, 127 and 152mm in brick or breezeblock.



Code 01121

Remove the pilot drill bit from the hole with the drill bit spinning. Turn OFF the Drill by releasing the ON/OFF trigger and **allow the drill bit to come to rest and cool. Unplug the unit from the power supply.**

**Remove the pilot drill bit from the chuck and select the correct size of diamond hole cutter for the job in hand.**

**Secure in the chuck the diamond drill mount, insert the guide bar into the guide bar hole in the diamond drill mount (it is a tight push fit). Finally, screw the diamond hole cutter (left hand thread) onto the diamond drill mount.**

**Select the non-hammer drill mode**, by moving the drill mode selector to the drill only icon.

### Warning

**Do not use a diamond drill bit in the hammer drill mode.**

**Plug the Drill into the power supply.**

**Insert the guide bar into the hole made by the pilot drill** and with the diamond hole cutter just above the material surface, **start the Drill spinning. Apply pressure to the Drill and start to make the cut.**

**Drill in the same manner as making the pilot hole, until the correct depth is reached.**

When the hole has been cut, **remove the diamond hole cutter from the cut with the Drill still spinning**, turn OFF the Drill by releasing the ON/OFF trigger switch **and let the hole cutter stop spinning.** Lay the Drill down and allow it to cool.

When the hole cutter has cooled **remove the diamond hole cutter from the diamond drill mount.** If it is tight, use a suitable spanner on the flats on the top of the cutter to loosen it. **Remove any debris from the hole cutter.**

Remove the guide bar from the diamond hole cutter mount by **inserting the guide bar removal drift into the hole on the side of the diamond drill mount with the flat against the guide bar.** Give the drift a sharp tap with a hammer and the guide bar can be removed.

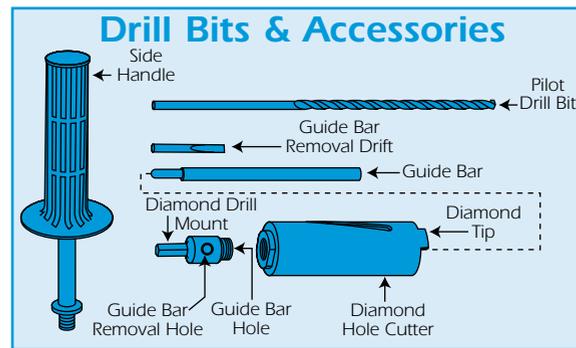
**Set the Drill up for the next hole.**

### Diamond Bit Wear

**Diamond drill bits wear during use; the tabs on the bottom hole cutter are used for drilling. Keep an eye on the wear rate of the tabs and when they have been worn away, then the cutter requires replacement. Contact your local HSS Hire Shop to arrange replacement.**

### EQUIPMENT CARE

**Never push the equipment beyond its design limits.** If it will not do what you want with reasonable



ease and speed, assume you have the wrong tool for the job. Contact your local HSS Hire Shop for advice.

**Keep the equipment clean** (especially the motor's ventilation slots). You will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period. When not in use, **store the equipment somewhere clean, dry and safe** from thieves.

### FINISHING OFF

**Switch OFF and unplug the Drill from the power supply, remove any drill bits from the chuck, collect all the components together, give the unit a final clean up** (especially the motor's ventilation slots). Neatly coil the power lead and repack all the parts back into the carrying case **ready for return** to your local HSS Hire Shop.



### ...any comments?

If you have any suggestions to enable us to improve the information within this guide please fax your comments or write to the Product Manager at the address below

**Fax: 020 8687 5001**

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## GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Hire Shop.

There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.

The hirer has a responsibility to ensure that all necessary risk assessments have been completed prior to the use of this equipment.

This equipment should only be used by an operator who has been deemed competent to do so by his/her employer.

This equipment should be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.

Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using cones and either barriers or tape, available for hire from your local HSS Hire Shop.

 Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

 Safety goggles MUST be worn by everyone in the work area.

 This equipment generates potentially harmful noise levels. To comply with health and safety at work regulations, ear defenders must be worn by everyone in the vicinity.

 Some materials when cut contain substances which, when inhaled, can be harmful to health. A suitable mask must be worn when using this equipment. Respiratory protective equipment is available for hire, contact your local HSS Hire Shop for details.

 Wear practical, protective clothing, gloves and footwear. Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.

Ensure the work area is well lit and ventilated, if in doubt, ask about lighting and ventilation equipment at your local HSS Hire Shop.

Do not work near flammable gases or liquids, petrol or paint thinner fumes for example. Keep combustible materials at a safe distance – at least 5m.

If working above ground level, work from a suitable, stable platform – an access tower for example. Never work from ladders or steps.

Make sure you know how to switch this machine OFF before you switch it ON in case you get into difficulty.

Always switch OFF and unplug the equipment when not in use.

Always disconnect the machine from its power supply before making adjustments to it. Check that you have removed all spanners before restarting.

Having switched OFF, always wait for moving parts to come to rest before placing the Drill on any surface.

Avoid contact with the drill bit, the cut surfaces and any swarf, immediately after drilling, as they will be very hot.

Handle drill bits with care, as they are sharp.

Never leave the unit running and unattended.

Never lift or pull the equipment by its power supply cable.

Never use the Drill to drill into asbestos sheeting, nor any other material that may yield hazardous dust.

Make sure that anyone in the immediate work area is warned of what you are doing.

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to your local HSS Hire Shop.

## ELECTRICAL SAFETY

The HSS Diamond Core Drill plugs into a standard 230V 13amp earthed power socket.

If the equipment fails, or if its power supply cable or plug becomes damaged, return it. Never try to repair it yourself.

Only use suitable three core earthed extension leads to power this equipment.

Keep cables out of harm's way, and clear of the work area.

Extension leads should be fully unwound and loosely coiled, away from the equipment. Never run them through water, over sharp edges or where they could trip someone.

Keep the equipment dry, using electrical equipment in very damp or wet conditions can be dangerous.

 To reduce the risk of electric shock, always use a suitable RCD (Residual Current-Operated Device) available from your local HSS Hire Shop. Or power the equipment from a mains circuit with a built in RCD.

Ensure the machine and power socket are switched OFF before plugging into the power supply.

Using electrical equipment in very damp or wet conditions can be dangerous.

## GETTING STARTED

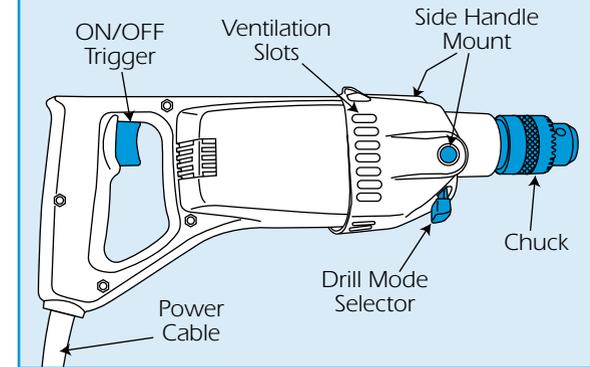
It is essential to familiarise yourself with all the controls before starting.

Unpack the drill and all its components from the carrying case.

Screw the side handle into the drill body on the side that will be the most comfortable for you.

Ensure that the Drill is disconnected from the power supply. Secure the pilot drill bit into the chuck. Remove chuck key.

## Diamond Core Drill



Connect the Drill to the power supply, the unit is now ready for use.

## BASIC TECHNIQUES

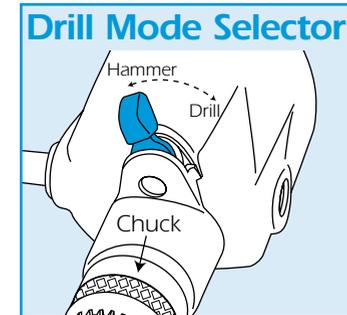
Before starting work survey the work area for hidden services (electrical services, pipe-work etc) if in doubt enquire at your HSS Hire Shop about a cable-avoiding tool.

Also survey the site for the type of building construction, the Drill is designed to drill into brick and breezeblock, only use it to drill these materials.

## Caution

If the building you are drilling into is constructed of brick and other materials (eg brick skin on timber frame), DO NOT use the drill to cut through the non-brick or breeze material. Ask at your local HSS Hire Shop for advice on tools that will be suitable.

Mark up where you wish to drill, remember the rule, measure twice, drill once.



Ensure that the pilot drill bit is securely in the chuck, select the hammer drill mode (move drill mode selector to the hammer icon), hold the Drill so that it is 90 degrees from the material surface and start the drill by pressing the ON/OFF trigger switch.

Apply progressive pressure to the drill and drill the pilot hole. Drill to the required depth (see Caution notice).

During drilling it will be necessary to move the drill bit back and forth in the hole to remove debris.