

GENERAL SAFETY

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

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

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.

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

   Wear sensible, protective clothing and footwear plus safety goggles, dust mask and work gloves. Avoid loose garments and jewellery that could catch in moving parts.

 Note that 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.

Always use a dust extractor to ensure optimum core bit performance and to keep the work area dust free.

Always switch OFF the equipment from its power supply before making any adjustments to it. Never leave it switched ON and unattended.

Ensure the work area is tidy, well lit and well ventilated.

Do not drill near flammable gases or liquids. Never drill into walls/floors containing gas/water pipes or electrical cables. If in doubt, check both sides using a metal detector or cable avoiding tool.

Two Hands

Always hold the drill with both hands – one on the rear handle, the other on the side handle. Never attempt to use it one-handed or with the side handle removed. You could break your wrist!

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

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

ELECTRICAL SAFETY

If equipment fails, or if its flex or plug is damaged, return it. Do not attempt to repair it yourself.

Most HSS power tools are designed to plug straight into a standard 240V 13A power socket (or to be powered from a suitable 240V generated supply).

However, 110V models (with a round, yellow plug) must be powered only from a 110V generator, or from the mains via a suitable transformer.

 To reduce the risk of electric shock, use a suitable RCD (Residual Current-Operated Device) available from your local HSS Hire Shop.

Keep flexes and leads out of harm's way. Never run them through water, over sharp edges, or where they could trip someone.

GETTING STARTED

Ensure the work surface is clean, dry and free from grease, then mark out the hole.

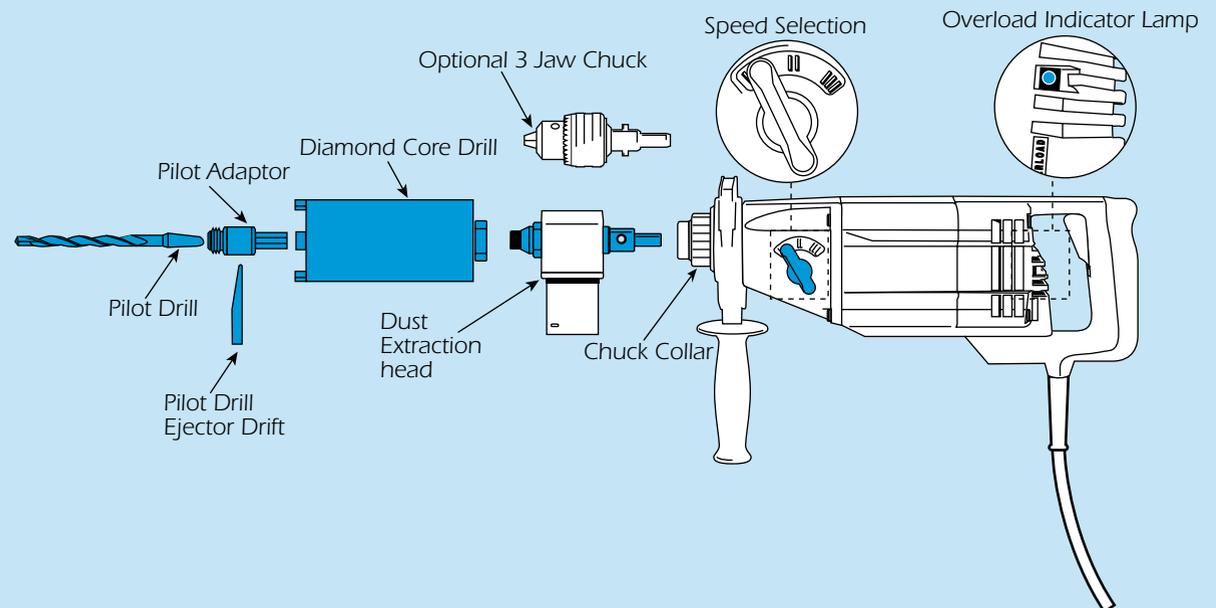
Fit the dust extraction head to the drill. Insert the drive shaft into the chuck on the drill. Twist the chuck collar anti-clockwise to lock the dust extraction head in place.

Screw the required core bit onto the thread of the dust extraction head – Note it has a right hand thread. Then select the correct speed for the bit (see chart)

Diamond Drilling Speeds

Speed Selection	Core Bit Size
3. 3900 rpm	16-42mm
2. 2400 rpm	35-67mm
1. 1200 rpm	56-127mm

Dry Diamond Core Drill



Slot the hose from the dust extraction unit into the sleeve on the dust extraction head.

Now **insert the pilot drill** complete with adaptor **into the core bit**, note the pilot assembly is not fixed in place and may fall out when not drilling.

Plug the drill into the appropriate power supply and switch on the dust extraction unit.

Note that **some extractors have a power take off socket. Ensure that the extractor has the required power rating** for the dry diamond driller, **before using this power source.**

BASIC TECHNIQUES

Holding both rear and side handles, squeeze the trigger just enough to make the core slowly rotate.

Align the pilot to the work and increase speed as the pilot become established. **Once the core has cut into the work by 15-20mm** withdraw the machine and **remove the pilot.**

Smaller core bits may not have a pilot system so **start the hole with the core bit at a slight angle then square up.**

Once the cut is established, speed up the drill to make reasonable progress, then **slow it down again** over the last few millimetres, just **before the bit breaks through.**

Do not try to force the bit. Anything more than light pressure reduces its efficiency and could damage both the bit and motor.

If the Overload Indicator Lamp illuminates, you are using too much pressure. Ease back until the lamp is extinguished.

FINISHING OFF

Withdraw the bit and switch off the vacuum.

Remember take care when removing or breaking cores in walls/floors in case there is anything on the far side that could be damaged.

Cores left in-situ can be either knocked through, pulled out (using an anchor bolt as a handle) or broken up with suitable equipment.

Unplug the drill, disconnect the vacuum hose, remove the core bit and neatly coil all flexes ready for return.

EQUIPMENT CARE

Never push the equipment beyond its design limits. If it will not do what you want with reasonable ease, assume you have the wrong tool for the job.

Keep the equipment clean, paying special attention to the motor and switches. Clean up regularly rather than at end of the hire period.

Treat core bits with care. Avoid knocking them or allowing them to drop onto the work-surface.

When not in use, store the equipment somewhere clean, dry and safe from thieves.

Never drill without the dust extractor. Apart from its health and safety benefits, it speeds up the work and reduces wear on the bit.



...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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Group Office: 25 Willow Lane, Mitcham, Surrey CR4 4TS

Web Site: <http://www.hss.co.uk>

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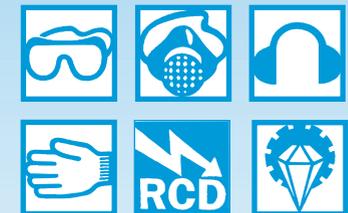
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HSS Hire Shops



Dry Diamond Core Drill

This hand-held tool offers a fast and efficient way to bore holes 16mm to 127mm in diameter through brick and blockwork.



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