

Hold the tool in both hands and adopt a stable stance that gives a good view of the work while keeping you clear of the bit.

Do not work in areas where you are forced to stand on loose debris or on a slippery uneven surface.

If possible, **drape the tool's flex over one shoulder to keep it clear of the bit, but make sure there is still enough slack** so you are not restricted in movement.

Start drilling slowly and carefully, then, once the hole is established, **concentrate on drilling in a straight line** – with the drill at right angles to the surface, where appropriate.

Apply just enough pressure to achieve a steady rate of penetration – too much or too little pressure will overheat and/or blunt the drill bit and could damage the electric motor.

When drilling into hard material such as masonry, withdraw the bit from time to time, keeping the drill running, in order **to cool the bit** and the drill's motor. This will also clear waste from the hole.

When drilling large diameter holes with TCT or HSS twist bits, drill a small pilot hole first, then drill again with a larger bit, until the correct size is achieved.

If using a flat blade for timber, do not use a pilot as the flat bit relies on its own pilot tip to keep the blade central.

If you wish **to use the drill as an electric screwdriver, use an adaptor to hold the various driver tips**. But be warned, some models don't have reverse so once the screw is in place you may have to remove it manually!

EQUIPMENT CARE

Never push the drill beyond its natural capabilities. If it won't do the job you want with reasonable ease, change it for a more powerful model.

Never let the drill bit or motor over-heat. Stop work at frequent intervals and run the drill for a minute or so, just holding it in your hands. The air drawn in and around it will cool everything down and prevent damage.

Regularly check that the air vents in the drill body are clear. If these become blocked with dust, clean them out using a soft brush before continuing, taking care not to push dirt into the drill body.

Avoid over-tightening the drill chuck when securing a bit, and **never attempt to fit a bit, larger than the recommended chuck capacity.**

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

FINISHING OFF

Remove all drill bits and clean up the drill ready for return.

Check that the drill still has its chuck key, neatly coil the flex and place in the carrying case ready for return to your local HSS Hire Shop.

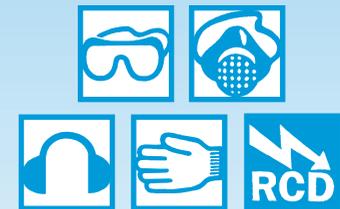
Operating & Safety Guide 523

HSS Hire Shops



Two Speed Percussion Drill

General-purpose drill suitable for drilling into all types of masonry, metal and timber and for most DIY jobs around the house.



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

Code 01112

GENERAL SAFETY

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

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.

This equipment should only be used by a competent person who has read and understood these instructions.



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



Some materials contain substances which, when inhaled, can be harmful to health. A suitable mask must be worn when using this equipment.



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.



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

Never use the equipment if highly flammable vapours – petrol or paint thinner fumes for example – are present.

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

Take special care when changing drill bits – they are sharp.

Always unplug the tool before making adjustments to it. Check that it is switched OFF and that you have removed the chuck key before plugging it back in.

Having switched OFF, **always wait for the drill bit to come to rest before putting the tool down.**

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.

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

Think twice before locking the ON/OFF trigger in the ON position using any trigger lock button fitted.

Only change the gear/speed and/or direction of rotation when the machine is stopped.

Take special care when drilling into walls or floors, they may contain hidden pipework, reinforcing bars or electrical cables. If in doubt, hire a Cable Avoiding Tool or metal locator, to determine the exact position of such hazards.

Watch your footing. Take special care if working other than on firm, level ground. **Above ground-level, work from a stable, purpose-made work platform** such as a step-up or trestle.

ELECTRICAL SAFETY

Most HSS Percussion drills plug into a standard 13amp power socket. However, 110V models (with a round yellow plug) **must be provided with a suitable 110V generated supply,** or powered from the mains via a suitable 110V transformer.

If the equipment fails, or if its flex or plug gets damaged, return it. Never try to repair it yourself.

Keep flexes out of harm's way, and clear of moving parts.

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, 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.

Never carry or pull the equipment by its flex.

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

GETTING STARTED

Some models will be supplied in a carrying case and you may find that the side handle will need to be fitted, simply slide the handle assembly over the drills body, then secure in place by either twisting the handle clockwise or by tightening the wing nut.

NOTE The side handle **MUST** be fitted and used, if the bit jams during drilling the side handle will help restrain the machine. Without the handle fitted you risk breaking your wrist.

Fit the drill with the right bit for the job.

Drill Bits

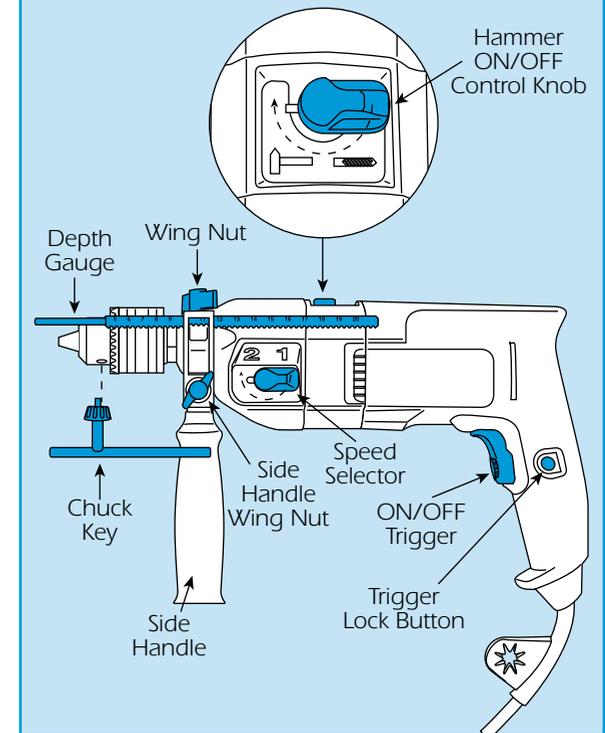
TCT drills. General purpose masonry drill bits are available with straight-shank or SDS fitting.

HSS (high speed steel). Used mainly for drilling holes in steel but also used for wood and plastics.

Flat (spade) bits. Designed for use in timber products.

Open and close the chuck with the chuck key provided.

Percussion Drill



If the depth stop is to be used, this may be set either by releasing the wing nut holding it in place or by twisting the forward handgrip to loosen/tighten the depth rod's guide.

The machine offers a choice of settings, **select the correct speed for the job.** As a rule of thumb, **the harder the material and/or the larger the hole, the slower the drill speed.**

On most models, there is a sliding speed selection switch on the side of the tool body.

If drilling into masonry, set the drill to 'hammer'. Depending on which model you have, the hammer action is turned on and off **with a sliding switch or control knob.**

If drilling into timber, metal or plastic turn the selector to drill only.

BASIC TECHNIQUES

Plug the machine into its power supply and switch the supply ON.

To start the drill, squeeze in the ON/OFF trigger, to stop simply release the trigger. For safety reasons you are advised not to use the trigger lock.