

Drill Bits

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.

BASIC TECHNIQUES

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

To start the drill, squeeze in the ON/OFF trigger – LOWER portion for forward rotation, and the UPPER portion for reverse, to STOP simply release the trigger.

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.

Always hold the drill with both hands.

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 steel, withdraw the bit from time to time, keeping the drill running, in order to cool it and the drill's motor. This will also clear waste from the hole.

EQUIPMENT CARE

Never push the drill beyond its design limits. If it won't do the job you want with reasonable ease, contact your local HSS Hire Shop.

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, unplug the drill then 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 recommend 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 and spanner then neatly coil its cable ready for return to your local HSS Hire Shop.

... have you been trained

The law requires that personnel using this type of equipment must be competent and qualified to do so.

Training is available at HSS Training Solutions
0845 766 7799



...any comments?

If you have any suggestions to enable us to improve the information within this guide please e-mail your comments or write to the Safety Guide Manager at the address below
e-mail: safety@hss.com

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Operating & Safety Guide 525

HSS Hire



Right Angle Drill

Allows you to work between joist and in awkward corners.



Code 01322

GENERAL SAFETY

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

This equipment is designed for operation by an able-bodied adult. Anyone with either temporary or permanent disability must 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.

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.

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

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

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

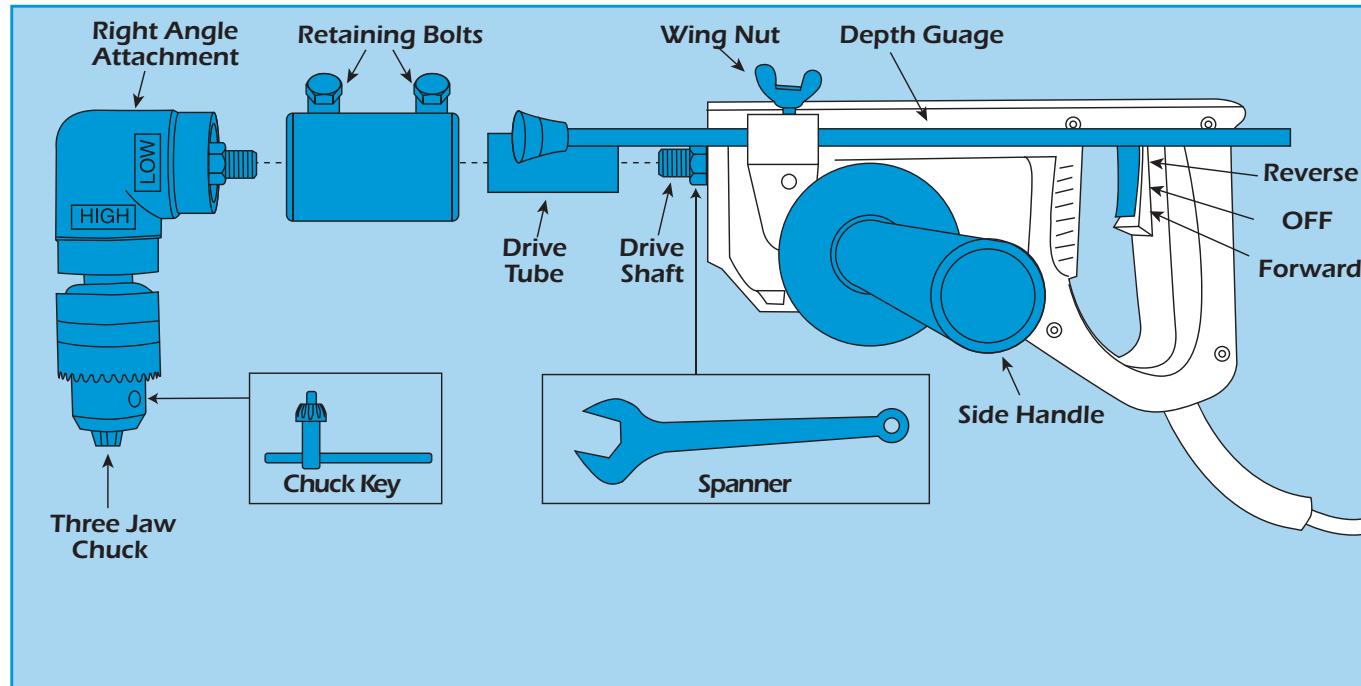
Always switch OFF and unplug the equipment when not in use before making adjustments to it. Check that it is switched OFF and that you have removed the chuck key before plugging it back in.

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.

Only change the direction of rotation when the machine is stopped.

Take special care when drilling into walls or floors, they may contain hidden pipework or electrical cables. If in doubt, hire a 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 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 are switched OFF before plugging into the power supply.

GETTING STARTED

Right angled drills offer a choice of speeds. You will see 'HIGH' and 'LOW' stamped on the right angle attachment; the one nearest the chuck being the speed selected. To change speed, turn the right angle attachment round.

Ensure the drill is switched OFF and un-plugged from its power supply. Loosen the retaining bolts with the spanner provided and remove the attachment complete with chuck. Take care not to lose the drive tube.

Next, grasp the nut between chuck and attachment with the spanner, fit the chuck key and tap it sharply with a hammer until you can unscrew and remove the chuck assembly.

Re-fit the chuck to the other end of the attachment and re-fit to the drill by reversing the removal instruction, ensuring that the drive tube is located on both the drive and attachment shafts.

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. Open and close the chuck with the chuck key provided.

If the depth guage is to be used, this may be set by turning the wing nut to loosen/tighten the guage.