

Fit the broacher with the appropriate cutter and pilot.

With the machine switched OFF and isolated from the air supply, **loosen the 2 Allen grub screws on the chuck** (be careful not to completely remove them). **Insert the pilot**, point down, **into the cutter** from the top (see diagram).

Now **insert the cutter into the chuck**, lining up the 2 flat faces with the grub screws. Holding the cutter in place, **tighten the grub screws** to hold the cutter firmly in place, **then remove the Allen key**.

Wearing gloves, clear any dirt or swarf from the base of the magnet and the surface of the work.

Place the unit in the correct position for drilling, and **activate the magnet by moving the control lever to the Magnet position**.

Attach the safety chain by looping it through the handle of the unit and around the workpiece (or other suitable anchor point). **Take up any slack in the chain and clip the carabina hook through a convenient link** in the free end of the chain.

The base must be positioned exactly.

If you are cutting on top of a surface fill the oil reservoir via the oil fill slot, as the pilot is depressed the oil will be fed automatically to the cutter.

If cutting on a vertical surface or over head, oil will have to be fed manually, and great care must be taken to ensure the oil does not 'run' back into the motor unit.

BASIC TECHNIQUES

Connect the delivery hose to the air broacher in the same way as to the compressor.

Check that the control lever is in the magnet position.

Fully open the compressor's air supply valve and start the compressor.

Slide the safety guard into position. Move the control lever to the drill position and where applicable **spray the cutter with cutting oil.**

Apply light pressure to the cutter until the cut is established, then increase the pressure slightly to progress.

Applying too much pressure will not increase the speed of the cut but **will damage the cutter.**

When the cut is completed, raise the cutter clear of the hole before carefully moving the control lever to the Magnet position. Take care not to move the lever to the OFF position as the magnet will be de-activated.

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. Ask at your local HSS Hire Shop for advice.

Always use the correct cutting oil and where applicable, refill the reservoir as soon as it becomes empty. **Never use the broacher without cutting oil.**

After each cut, clear the plug from inside the cutter and the work area of swarf.

Keep the equipment clean. You will find this less of a chore if you clean up 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

Move the control lever to the Magnet position, Turn OFF the air supply and disconnect the air supply hose from the unit.

Support the broacher, remove the safety chain then move the control lever to the OFF position to de-activate the magnet.

Remove any cutter and pilot, and place the broacher in its 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

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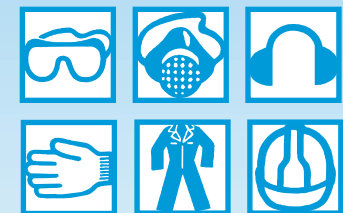
Operating & Safety Guide 824

HSS Hire Shops



Air Broacher

Portable air driven milling machine for boring accurate holes in steel.



Code 01538



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.


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.**

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

 **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.

 **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, especially sleeves and jewellery that could catch in moving parts, tie back long hair.

Never operate this machine with people working below, cordon off a safe area.

Always stand to the side of the machine when in use, to safeguard the operator against falling debris.

Ensure the work area is well lit and ventilated, if in doubt, ask about dust extraction 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.

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 isolate the machine from its air supply, before making adjustments to it.

Having switched OFF, **always wait for the cutter to come to rest before moving or adjusting it.**

Never carry or pull the equipment by its air supply hose.

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.

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

Watch your footing. Take special care if working other than on firm, level ground.

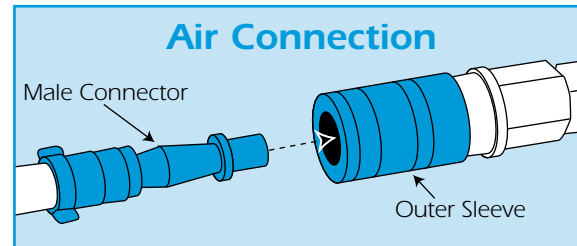
To avoid injury due to magnetic failure always **secure the unit to the RSJ using the chain and carabina hook supplied.**

Never allow compressed air to travel down an air hose which is not connected to an air tool, this may cause personal injury.

COSHH information sheets are available from your local HSS Hire Shop.

AIR SAFETY

HSS Air Broachers require a minimum 35cfm compressor to run them. The air connections used are the push fit quick action type.



If the tool fails, or if its hose or coupling gets damaged, return it. Never try to repair it yourself.

Keep the air hose/s out of harm's way, keep them clear of moving parts. Never run them through water, over sharp edges or where they could trip someone.

Never carry or pull the equipment by its supply air hose.

Ensure the air supply is turned OFF before connecting or disconnecting it from the air hose. Isolate it from the air supply before making any adjustments.

GETTING STARTED

With the compressor warmed up, and the air supply valve CLOSED, connect the air hose to the compressor by pushing it on to the air outlet.

The outer sleeve (female) must click fully forward, check the connection is secure by lightly pulling on the hose.

To disconnect, push the outer sleeve back until the male connector becomes free.

Anchor the delivery end of the air hose so that it is not aimed at any person or property then, taking great care, **slightly open the air supply valve to clear the hose of any debris.** Then **fully close the valve and switch OFF the compressor.**

