

Using the Abrasive Wheels

- 1. Wear your protective equipment including goggles, helmet and dust mask
- Check that the abrasive wheel is fitted correctly and securely, and that the quard is properly adjusted.
- Do not use abrasive wheels on machines without the safety guards fitted. Regularly check that the guards and the abrasive wheel are still secure.
- Do not use abrasive wheels to cut asbestos or materials containing
- Check that the abrasive wheel is clear of any obstruction before starting the machine. Let the wheel run up to speed before starting work. Be prepared for the reactive force when the wheel contacts the work surface.
- Keep the wheel running at speed: if the machine starts to labour and slow down do not force it so hard. Firm but steady pressure keeping the wheel speed up will be more effective and safer than using aggressive force.
- Abrasive wheels can only cut in straight lines. Do not try to go around
- Lift the abrasive wheel clear of the work before switching off, or stopping
- Do not put the machine down until the wheel has completely stopped.
- 10. Do not slow the wheel deliberately by applying pressure to it while it is slowing down.
- 11. If your equipment does not work properly, do not attempt to repair it. Contact the hire company.
- 12. You may want to read this leaflet again. Please keep it until you finish work.













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16. Dispose of used wheels carefully. the machine. Switch off and unplug, or stop the engine, before making adjustments.

- 15. If you think something is wrong do not use causing the problem. sign that the wheel is not fitted property of the machine and check what
- 14. If there is any excessive vibration or other is running correctly.
- 13. Rotate the wheel by hand to ensure that it does not foul the guard. Then, holding the machine in a safe position, start the machine in a safe position, start the sachine and run the wheel at full speed for a safe safe one minute to check that everything is uniquing norrectify.
- make sure that the guards around the wheel are in place and adjusted correctly to suit the wheel and the job you are doing. 12. When you have fitted the abrasive wh
- 11. Use the tools supplied with the machine. done up too tightly. The wheel may be damaged if the flange is
- 10. Make sure that the flanges are tightened just enough to drive the wheel mormal hand force on the correct tools is sufficient.

 The wheel may be demanded if the flance is once, they must not be used again.
- or supplied separately. If the separate ones have been crushed, for example used The Dioter's are either stuck on the wheel
- The blotters (paper discs) are used to absorb any irregularities between the surfaces of the cutting wheel and the flat.
- slip round on the spindle, even though the flange nut is tight, if the flange is fitted for a thick sure this type of flange is fitted the correct way for the wheel in use. A thin wheel will Some machines have a reversible front flange to take thick or thin wheels. Make

way.

- other flanges or fittings or improvise in any Only use the wheel flanges that were supplied with the machine and are correct for the wheel you are using. Do not use any after flanger graphs or estimates. ciosest to the machine.
- When fitting depressed centre wheels make sure that the central depression is

- sing from the rim. starting to fit it. Do not use it if there is any sign of damage, such as cracks, or bits Check the wheel for damage before
- Always switch off and remove the plug, or stop the engine, before changing or adjusting an abrasive wheel.
- do not transport the tool with the wheel Only fit abrasive wheels at your work area wheel unless you are competent to do so. You must not fit or change any abrasive

EILLING WHEELS

machine.

- rotational speed marked on the marked on the wheel label is greater than 11. Always check that the rotational speed
- company for the material being ground or sprasive wheel recommended by the hire 10. Make sure that you use the correct type of
- comfortably inside the guard of your Check the diameter of the abrasive wheel, do not use the wheel if it does not fit
- The abrasive wheels must have the correct bore (hole) size to fit the spindle on your machine. Do not by to fit an abrasive wheel that is too loose, or too tight on the shaft.
- Only use wheels that are the correct fit for
- use any other wheels. REINFORCED marked on it. You must not The label on the wheel will have BF or





Abrasive Wheels

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

It is important to read all of this leaflet **BEFORE** you use the Abrasive Wheels

- This leaflet should be read together with safety instructions applying to the machine you fit these wheels to.
- You must be competent before you can mount abrasive heels. This leaflet is no substitute for proper training.
- Abrasive wheels are designed to grind, cut and smooth metal, concrete, stone and similar materials. You must use reinforced wheels of the correct grade for each job. The maker's label attached to the wheel will have BF or REINFORCED marked upon it. You must not use wheels that are not reinforced on any hand held machine.
- The abrasive wheel rotates very fast and can cause injury or damage if the machine is not used in a careful and controlled way.
- If you have not used abrasive wheels before, familiarise yourself with their correct fitting and se before you start on the main task. If you are not sure ask the hire company.
- Plan your work and think ahead to make sure you will always be working safely.
- You must have at least the following items of personal protective equipment: goggles: EN166 or BS2092; dust mask- a minimum of EN149 - 2001FFP3 protection; ear muffs or plugs giving protection for levels up to 89dB(A); Safety boots to EN345 or BS1870/4972; industrial gloves.
- A personal first-aid kit should be available.
- Machines that use abrasive wheels must not be used by minors, or by anyone under the influence of drugs or alcohol.
- Machines that use abrasive wheels are designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using













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wheels, these may be depressed centre or machines you must reinforced cut-off For any cutting work with hand held

- depressed centre grinding wheels. For any grinding work with hand held machines you must use reinforced depressed centre orinding wheels
- crack easily if dropped. A cracked wheel is extremely dangerous and must not be Handle wheels carefully because they will
- get wet or frozen. their original packing. Do not allow them to Treat all wheels carefully. Store them flat, in
- damaged, distorted or badly worn do not use them contact the hire company.
- Check the abrasive wheels, it any are found

SELECTING ABRASIVE WHEELS

- overains, sparks from grinding may set it Do not wear nylon clothing such as protective equipment.
- also need to wear identical personal Anybody who is working near to you will www.hse.gov.uk/vibration.
- VIDFALION напа-агт yloves to keep your hands warm while you are about the size working. Find out more about the effects of vibration 1 AAK the fire company of the HAE leaflet no. 50 to copy of the HAE leaflet no. The hand when the hand of the HAE leaflet workshop with the property of the hand warm when the hand warm when the hand warm when the hand warm when the hand warm was the hand warm when the hand warm was the hand warm warm was the hand warm warm was the hand warm warm was the hand warm warm was the hand warm warm was the hand warm was the you start work, and wear industrial quality Vibration from using this machine can be hazardous. Warm your hands up before
- this level as a minimum. mutte or pluge giving hearing protection for



with the work, enter the exclusion zone.

an exclusion zone around the area where the abrasive wheel is being used with physical barriers, barrier tape and signs.

partiers around your work area.

Make sure that the area is clear and safe and that no-one is near to you or could distract you. Warn others to keep away, put beneave secured viour work area san ignite upholstery and other fabrics.

WORK AREA



levels up to 93 db(A) - wear appropriate ear This equipment is likely to cause noise

миел уои аге могкілд мітл тліѕ таспіпе. You must wear goggles (EN166 or BS2092) off saw. Particular jobs or environments may require a higher level of protection.

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OPERATORS

Cutting certain materials makes a large amount of dust - cover any surfaces or objects that may be damaged, or difficult to curely clamped or held in a vice Any work that is not part of a fixture should

cable location and signal generator. pipes where you are going to cut. Ask the hire company for HAE leaflet no.1415 re no hidden electric cables, gas or w If you are using an abrasive cutting disc to cut into a floor or fixture check that there are no hidden electric sables, are no hidden electric sables, are no hidden electric sables.

Make sure your work area is clear, well lit

Work should stop immediately should anyone, other than those directly assisting anyone, other than those directly assisting Keep children and animals away when using this equipment.

Protect other people from the dust. Set up

a danger of explosion. Spa grinding will ignite petrol or fuel va Sparks from Do not use abrasive wheels where the