



For guidance on managing construction health risks go to

www.hse.gov.uk/construction





230 VOLT MACHINES (Continued...)

- Lay it out carefully avoiding liquids, sharp edges, doorways or windows where it might be trapped, and pLaces where vehicles might run over it. Unroll it fully or it will overheat and could catch fire.
- Make sure that any extension cable connections are dry and safe.

USING THE GRINDER

- your protective including goggles and dust mask
- Any work that is not part of a fixture should be securely clamped or held in a vice.
- Check that the abrasive wheel is fitted correctly and securely, and that the guard is properly adjusted.
- Check that the abrasive wheel is clear of any obstruction before switching on. Be prepared for large grinders to kick when the motor starts.
- Let the grinder run up to speed before contacting the work surface. 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. Lift the abrasive wheel clear of the work
- before switching off.
- The abrasive wheel will continue to rotate for a few seconds after you switch

- off. Wait for it to stop completely before you put the grinder dowr
- Switch off and stop work if someone approaches you.
 - Watch out for signs that vibration may be affecting your hands. If your fingers start to tingle or feel numb, take a short break from using the grinder. Exerc you fingers to encourage blood
- To help prevent vibration affecting your hands, operate the machine for shorter periods. Keep your hands warm vearing gloves may help do this.
- Make sure that the machine ventilation slots do not become blocked with dust and debris.
- Keep the cable clear of the abrasive wheel and any sharp edges on your
- If you think the cable may be cut or damaged in any way, switch off and unplug at the mains before inspecting it. If the cable attached to the machine is damaged, stop using the machine. Contact the hire company. If an extension cable has been damaged, do Take care not to accidentally pull the
- plug from the socket.
- Switch off and unplug before leaving the machine unattended.
- If your equipment does not work properly, do not attempt to repair it. Contact the hire company.

Please keep this leaflet safely as it may be required for future reference













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suitably rated heavy duty one, not longer than 50 metres (160 feet). Plug it directly into the red



any special instructions, you should only use a сошрану паче пот дічен pire company. If the hire 3. If you need an extension cable, follow any special instructions given by the supplied with it.

rcd is working each time you use it. Reset the rcd according to the instructions shock if the cable or machine get damaged.

Use the "'TEST" button to check that the will help to protect you against electric



socket. Plug your machine into the rcd. This directly in to the 230volt 1. Use a residual current device ("rcd") plugged олуве РІИ ОВ ВСИЕ РСИС)

4. Make sure that any extension cable connections are dry and safe.

Unroll it fully or it will overheat and could

laces where vehicles might run over it. or windows where it might be trapped, and sharp edges, doorways 3. Lay the extension cable out carefully

extension cable between the transformer the hire company. If the hire company have not given any special instructions, you should only use a suitably rated heavy duty 110v extension cable, not longer than 50 metres (160 (eet), You must only use an extension cable between the transformer if you need to use an extension cable, follow any special instructions given by

any 230v extension cables. 230 volt socket. Do not use transformer directly into the If you are using a portable transformer, plug the 110 VOLT MACHINES (YELLOW PLUG)

instructions below for your machine. plug titted, or a blue industrial plug. Head the achines will have either a normal square pin will have a yellow industrial plug fitted. 230v voltage: it will be 110v or 230v. 110v machine Your machine will only operate on one **ELECTRICAL SAFETY**

or dispose of them carefully. 10. Return used wheels to the Hire Company causing the problem.

stop the machine and check what there is any excessive vibration or other sign that the wheel is not fitted properly, without load for about 30 seconds. check that the wheel rotates freely before switching on. Then let the machine run 9. When you have fitted the abrasive wheel,

force on the correct tools is sufficient. Use the tools supplied with the machine. sure that the flanges are tightened just enough to drive the wheel - normal hand enough to drive the wheel the same and the constant in the contract that is correct for the wheel you are using. Make anbbued with the machine and are 8. Only use the wheel flanges that were the grinding wheel and the flange.

any irregularities between the surfaces of 7. Use the blotters (paper discs) to absorb shown on the machine.

must be greater than, or equal to, that ou rue arraignt grinder. I'ne wneel speed Look at the speed stated on the label of the abrasive wheel, and the speed shown on the strainht orlinder. The wheel speed damaged, distorted or badiy worn.

good condition - do not use any that are 5. Check that your abrasive wheels are in













0402 Safety Guidance



Straight Grinders

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 this entire leaflet **BEFORE** using the Straight Grinder

- Electricity can be hazardous and must always be used with great care.
- grinder is designed for grinding, wire brushing and deburring metal.
- The abrasive wheel rotates very fast and can cause injury or damage if the machine is not used in a careful and controlled
- If you have not used a straight grinder before, familiarise burself with the machine on some straightforward work before you start on the main task
- 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: impact resistant EN166 B or BS2092 grade 1; dust mask a minimum of EN149 ffp3(s) protection; ear muffs or plugs giving protection for levels up to 98 dB(A); gloves; rcd if using a 230 volt (mains) supply.
- This machine must not be used by minors, or by anyone under the influence of drugs or
- This machine is designed for operation by an able bodied adult. Anyone with either a temporary or permanent disability must seek expert advice before using it.

- Do not use this grinder where there is a danger of explosion. It will ignite fumes from petrol. or gas cylinders. Make sure that the area is clear and safe and that no-one is near to you or could distract you.
- Protect other people from the noise and dust. Warn others to keep away, put barriers

(Continued overleaf...)













to have arisen from the use of any such document/material. Only Acts of Parliament have the force of law and only the courter. have the force of law and only the courts can authoritatively interpret the law.

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company for the material you are

Make sure that you use the correct type of abrasive wheel recommended by the hire if. You must not use any other wheels.

with this grinder. The label on the wheel will have BF or REINFORCED marked on els suitable for hand - held machines 3. You must only use reinforced abrasive changing or adjusting an abrasi Always switch off and unplug, before wheel unless you are competent to do so You must not fit or change any abrasive - before you switch the grinder on, you must know how to stop it.

your hands warm while you are working.

7. Check on how the on/off switch operates you start work, and wear gloves to keep Vibration from using this grinder can be hazardous. Warm your hands up before uguas wniie working.

Always hold the grinder correctly with two Make sure that the guards around the wheel are in place and adjusted correctly. industrial plug.

normal square pin plug fitted, or a blue than you think. Machines designed to run directly from 230v mains will have either a when moving it about - it may be heavier enpplied, take care not to injure yourself supply. If a portable transformer has been machine from a normal mains 230v transformer if you need to power the industrial plug fitted are designed to run off a special 110v supply. The hire company will have provided a portable

connections or improvise them.

Machines with a sylindring matches your supply. Do not try to force

Check that the plug on your machine Check the machine, cables, plugs and guards. If anything is found damaged, do not use the grinder - confact the hire

Machines with a cylindrical yellow

GRINDER menudinha av

also need to wear appropriate personal

Anybody who is working near to you will material that causes dust. protection) when you are grinding You will need to wear an appropriate dust mask (with a minimum of EN149 ffp3(s)

ear muffs or plugs giving hearing protection for this level as a minimum. This equipment is likely to cause noise levels up to 98 dB(A) – wear appropriate

You must west impact resistant goggles (EN166 - B or BS2092 grade 1) when you are working with this machine. may require a higher level of protection.

machine. Particular jobs or environments eponia be worn whenever you use this equipment (ppe) are the minimum that The following items of personal protective

SHOTARING

naterials containing asbestos. 7. Do not use this machine to grind asbestos damaged, or difficult to clean. any sunaces or objects that may be

spot, and stick into some surfaces - cover Sparks from grinding are still hot when they settle, they will burn a very small check there are no wood shavings, paper or exposed paints or thinners.

Sparks from grinding can ignite flammable materials some distance away, accidentally cut into them.

vehicle, check that there are no fuel pipes where you are working. You might accidentally cut into them If you are working on a car or other WORK AREA (Continued...)

Before Starting Work...