







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

USING THE GRINDER

- your protective equipment 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 4 any obstruction before switching on. Be prepared for large grinders to kick when the motor starts.
- 5. Let the grinder run up to speed before contacting the work surface. Be prepared for the reactive force when the wheel contacts the work surface.
- Keep the wheel running at speed: if the 6. 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.
- 7. Lift the abrasive wheel clear of the work before switching off.
- 8 The abrasive wheel will continue to rotate for a few seconds after you switch



- Watch out for signs that vibration may 10. 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 irculation.
- 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 12. slots do not become blocked with dust and debris.
- Keep the cable clear of the abrasive 13. wheel and any sharp edges on your work
- If you think the cable may be cut or 14 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 not use it again.
- 15. Take care not to accidentally pull the plug from the socket.
 - 16. Switch off and unplug before leaving the machine unattended.
- 17. 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

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

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

Duroll it tully or it will overheat and could

laces where vehicles might run over it.

or windows where it might be trapped, and

extension cable between the transformer

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If you need to use an extension cable, follow any special instructions given by

any 230v extension cables.

230 volt socket. Do not use

If you are using a portable transformer, plug the transformer directly into the

110 VOLT MACHINES (YELLOW PLUG)

3. Lay the extension cable out carefully

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TIP 10

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sharp edges, doorways

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1. Use a residual current device ("rcd") plugged

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nd the machine.

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If you need an extension cable, follow any special instructions given by the bits compared.

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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 titted. 230v voltage: it will be 110v or 230v. 110v machine Your machine will only operate on one **YTERCAL SAFETY**

or dispose of them carefully.

- 10. Return used wheels to the Hire Company causing the propiem.
- 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
- correct for the wheel you are using. Make supplied 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 on the straight grinder. The wheel speed
- Look at the speed stated on the label of the abrasive wheel, and the speed shown on the strainth uninder. The wheel speed damaged, distorted of badiy worn.
- good condition do not use any that are 5. Check that your abrasive wheels are in



Before Starting Work...

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BEFORE using the Straight Grinder Electricity can be hazardous and must always be used with

2. grinder is designed for grinding, wire brushing and deburring metal.

It is important to read this entire leaflet

- The abrasive wheel rotates very fast and can cause injury or 3. damage if the machine is not used in a careful and controlled
- If you have not used a straight grinder before, familiarise 4.
- urself with the machine on some straightforward work before you start on the main task

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.

- 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 ffp2(s) protection; ear muffs or plugs giving protection for levels up to 98 dB(A); gloves; rcd if using a 230 volt (mains) supply.
- 7. This machine must not be used by minors, or by anyone under the influence of drugs or alcohol.
- 8 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.

WORK AREA

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company for the material you are

abrasive wheel recommended by the hire

Make sure that you use the correct type of

ill have BF or REINFORCED marked on

els suitable for hand - held machines

with this grinder. The label on the wheel

Always switch off and unplug, before

wheel unless you are competent to do so

before you switch the grinder on, you must know how to stop it.

your hands warm while you are working. Check on how the on/off switch operates

nands while working.

. Budustrial plug.

you start work, and wear gloves to keep

Vibration from using this grinder can be hazardous. Warm your hands up before

Always hold the grinder correctly with two

Make sure that the guards around the wheel are in place and adjusted correctly.

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

supplied, 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

You must not fit or change any abrasive

it. You must not use any other wheels

3. You must only use reinforced abrasive

changing or adjusting an abrasi

1.

great care.

- Do not use this grinder where there is a danger of explosion. It will ignite fumes from petrol. 1. or gas cylinders.
- Make sure that the area is clear and safe and that no-one is near to you or could distract you 3. Protect other people from the noise and dust. Warn others to keep away, put barriers around your work area.

(Continued overleaf...)



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Machines with a cylindrical yellow connections or improvise them.

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- matches your supply. Do not try to force Check that the plug on your machine .S
- company.
- guards. If anything is found damaged, do not use the grinder contact the hire
- Check the machine, cables, plugs and

GRINDER

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- 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 ffp2(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 3
- You must wear impact resistant goggles (EN166 B or BSS092 grade 1) when you are working with this machine.
- .s may require a higher level of protection.

- machine. Particular jobs or environments

- suonid be worn whenever you use this
- equipment (ppe) are the minimum that The following items of personal protective

SROTARAGO

accidentally cut into them.

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- naterials containing asbestos. 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,

vehicle, check that there are no fuel pipes where you are working. You might

If you are working on a car or other