

P.S.M.Plant & Tool Hire Cer



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care.



It is important to read all of this leaflet

BEFORE you use the Angle Grinder

Electricity is hazardous and must always be used with great

This angle grinder is designed for grinding, cutting and de-

burring metal. It can also be used to cut brick and masonry. You must use the appropriate abrasive wheel for each of these jobs.

straightforward work before you start on the main task

It is not designed for any other purpose.

A personal first-aid kit should be available.

careful you do not lift beyond your own capabiliti

v.nae.org.u

ail@hae.org.uk

44 (0) 121 333 4109

44 (0) 121 380 4600

You must not fit or change any abrasive wheel unless you are competent to do so. Ask the hire company for a copy of the HAE leatlet no. 0403 - Abrasive Wheels.

vitch the grinder on, you must know ho

Check on now the on/off switch operates before

start work, and wear gloves to keep your hands warm while you are working. Ask the hite company for a copy of the HeHE leaflet no. 2150 - Hand-arm no. 2150 - Hand-arm

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

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iviake sure that the guards around the wheel are

i may be heavier than you think. Machines asigned to run directly from 230v mains will have of the fitted or a

the state of the structure of the state of t

Machines with a cylindrical yellow industrial plug fitted are designed to run off an 110v suched as levelded as reprovided as received as the power by the power

Aont supply. Do not try to force connections or

Check that the plug on your machine matches

Check your machine, cables, plugs and guards. If anything is found damaged, do not

nze rue drinder - contact the nife company.

either a normal square pin plug titted, or a

used in a careful and controlled way.

230 volt (mains) supply.

Angle Grinder

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.

The abrasive wheel rotates very fast and can cause injury or damage if the machine is not

If you have not used an angle grinder before, familiarise yourself with the machine on some

You must have at least the following items of personal protective equipment: googles:

EN166 or BS2092; dust mask - a minimum of EN149 FFP3(s) protection; Safety boots to

EN345 or BS1870/4972; industrial quality gloves; residual-current device (RCD) if using a

This angle grinder must not be used by minors, or by anyone under the influence of drugs

This angle grinder is designed for operation by an able bodied adult. Anyone with either

Although angle grinders are designed for one person operation you should always be

have the force of law and only the courts can authoritatively interpret the law.

Plan your work and think ahead to make sure you will always be working safely.

temporary or permanent disability must seek expert advice before using it.

effort has been made by HAE/EHA to ensure that the information given in this docun

is accurate and not misleading. HAE/EHA cannot accept responsibility for any to have arisen from the use of any such document/material. Only Acts of Parliament

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www.hse.gov.uk/vibration.

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GRINDER

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Using the Angle Grinder

- Wear your protective equipment including goggles and dust mask
- 2. 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 2 large grinders to kick when the motor starts.
- 4 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.
- 5 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. 6.
- The abrasive wheel will continue to rotate for a few seconds after you switch off. Wait for it to 7. stop completely before you put the grinder down.
- The grinder can only cut in straight lines. Do not try to go round corners. 8.
- 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. Exercise your fingers to encourage blood 9 circulation. Find out more about vibration. Ask the hire company for a copy of the HAE leaflet no. 2150 - Hand-arm vibration or visit www.hse.gov.uk/vibration.
- 10. To help prevent vibration affecting your hands, operate the machine for shorter periods. Keep your hands warm - wearing gloves may help do this.
- 11. Make sure that the machine ventilation slots do not become blocked with dust and debris
- 12. Keep the cable clear of the abrasive wheel and any sharp edges on your work.
- If you think the cable may be cut or damaged in any way, switch off and unplug at the mains 13. 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.
- Take care not to accidentally pull the plug from the socket. 14.
- 15. Switch off and unplug before leaving the machine unattended.
- If your equipment does not work properly, do not attempt to repair it. 16. Contact the hire company.
- 17. You may want to read this leaflet again. Please keep it until you finish work



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damaged.

(SQUARE PIN OR BLUE PLUG)

230 VOLT MACHINES

are dry and safe.

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and could catch fire.

:(January:

extension cable > angle grinder.

230v: Wall socket > RCD > any necessary extension

110V: Wall socket > transformer > any necessary

5. Make sure that any extension caple connections

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et). Plug it directly into the RCD.

ind places where vehicles might run over it. Unroll

instructions, you should only use a suitably rated heavy duty one, not longer than 50 metres (160

the fire company has not given any special

3. If you need to use an extension cable, follow any

recording to the instructions supplied with it.

2. Use the "TEST" button to check that the RCD is

working each time you use it. Reset the RCD

stric shock if the cable or machine gets

INTO THE HUD. THIS WILL HERP TO PROTECT YOU AGAINST

Use a residual current device (RCD) plugged directly in to the 230volt socket. Plug your machine istation of the 230volt socket.

4. Make sure that any extension cable connections

iliquids, sharp edges, doorways or windows where it might be trapped, and places where vehicles the nover it. Unroll it fully or it will overheat from only and the first

instructions, you should only use a suitably rated 50 metres (160 feet). You must only use an storsion cable between the transformer and the

the nife company has not given any specia

z. If you need to use an extension cable, follow any

ial instructions given by the hire company.

and the

3. Lay the extension cable out carefully avoiding

extension cable between the transform

al instructions given by the hire company.

vays or windows where it might be trappe

it fully or it will overheat and could catch fire.

Business Park

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use any 230v extension cable at directly into the 230 voit socket. Do not

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1. If you are using a portable transformer, plu

110 VOLT MACHINES (YELLOW PLUG)

230v machines will have either a normal square pin plug fitted, or a blue industrial plug. Read the instructions below for your machine.

t 0v machines will have a yellow industrial plug fitted

be 110v or 230v. shine will only operate on one voltage: it will YTERAS JADIRTOELE

properly, stop the machine and check what is causing the problem. on. Then let the machine run without load for about 30 seconds. It there is any excessive routilitoria no rother sign that the wheel how witherkine rote the more and food with the that the wheel rotates treely before switching -2

- When you have fitted the abrasive wheel, check Look at the speed stated on the label of the abrasive wheel, and the speed arbown on the aprise guider. The wheel speed must be greater than, or equal to, that shown on the machine.
- 9 company for the material being ground or cut.
- Make sure that you use the correct type of abrasive wheel recommended by the hire · · g orted or badly worn.
- condition do not use any that are damag Check that your abrasive wheels are in good
- (hole) size to fit the spindle on your grinder. Do not try to fit an abrasive wheel that is too loose, or too tight on the shaft. The abrasive wheels must have the correct bore
- siny other wheels. REINFORCED marked on it. You must not use
- suitable for hand-held machines, with this grinder. The label on the wheel will have BF or TOU TILLET ONLY USE TELE
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Before Starting Work.

Useful Reference Points • www.hae.org.uk/businessguard

Do not use this angle grinder where its a danger of explosion. It will ignite fumes from Detrol, or das cylinders **AAHA XHOW**

- Make sure that the area is clear and sate and petrol, or gas cylinders.
- ct other people from the dust. Set up Prote 3 that no-one is near to you or could distract you.
- angle grinder is being used with physical barriers, barrier tape and signs. Keep children and annmals away when using this equipment.
- other than those directly assisting with the work, enter the exclusion zone. Work should stop immediately should anyone,
- Clear the area of trip hazards such as rubble,
- cole risidan
- uidyr der wer Do not use this grinder in the rain or where it
- It you are cutting into a floor or fixture check that .,
- there are no hidden electric cables, gas or water pipes where you are going to cut. Ask the hire company for HAE leaflet no.1415 -
- able location and signal generator.
- secritery cramped of herd in a vice. Any work that is not part of a fixture should be .8
- Cutting certain materials makes a large amount
- of dust cover any surfaces or objects that may be damaged, or difficult to clean.

orn whenever you use this machin ., **SHOTAHERO**

- suichist jobs of environments may require a equipment (PPE) are the minimum that should items of personal protective
- nigner level of protection.
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- Ysem taub at the set of the set o
- protection) when you are in contact with
- tenal that causes dust.

- You must wear safety boots (EN345 or 3
- BS1870/4972).

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- You must wear industrial quality gloves.

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- Anybody who is working near to you will also