



0401 Angle grinder -110/230v **SHC**



Using the Angle Grinder

- Wear your protective equipment including goggles and dust mask
- 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. 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.
- 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 down.
- The grinder can only cut in straight lines. Do not try to go round corners.
- 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 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.
- To help prevent vibration affecting your hands, operate the machine for shorter periods. Keep our hands warm - wearing 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 work.
- 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 not use it again.
- 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.
- You may want to read this leaflet again. Please keep it until you finish work.















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> sudie duugeu 230v: Wall socket > RCD > any necessary extension extension cable > angle grinder. շռաացւմ։

are dry and sare.

5. Make sure that any extension cable connections

and places where vehicles might run over it. Unroll doorways or windows where it might be trapped 4. Lay it out carefully avoiding liquids, sharp edges

neavy duty one, not longer than 50 metres (160 the hire company has not given any special instructions, you should only use a suitably rated sbecisi instructions given by the nire company. 3. If you need to use an extension cable, follow

according 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 working to the instructions supplied with it.

into the RCD. This will help to protect you against electric shock if the cable or machine gets directly in to the 230volt socket. Plug your machine 1. Use a residual current device (RCD) plugged

(SOUARE PIN OR BLUE PLUG)

230 VOLT MACHINES

4. Make sure that any extension cable connections

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 3. Lay the extension cable out carefully avoiding

on metres (160 166t), you must only use an instructions, you should only use a suitably rated neavy duty 110v extension cable, not longer than 200 matters (400 fost) Yeur must salk use control of the rue une company nas not given any special z. If you need to use an extension cable, follow any ansformer directly into the 230 volt socket. Do not se any 230v extension cables. 7. If you are using a portable transformer, plug the 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. 110v machines will have a yellow industrial plug fitted.

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sausing the problem.

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

rnan, or equal to, tnat snown on tne macnine. Look at the speed stated on the label of the abraive wheel, and the speed month on the speed must be greater angle grinder. The wheel speed must be the machine

company for the material being ground or cut. aprasive wheel recommended by the Make sure that you use the correct type distorted or badly worn.

Check that your abrasive wheels are in good condition - do not use any that are damaged, distorted or badly worn. or too tight on the shaft.

(hole) size to fit the spindle on your grinder. Do not try to fit an abrasive wheel that is too loose, The abrasive wheels must have the correct bore any otner wneels.

suitable for hand-held machines, with this grinder. The label on the wheel will have BF or REINFORCED marked on it. You must not use any other wheels





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.

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 deburring metal. It can also be used to cut brick and masonry. You must use the appropriate abrasive wheel for each of these jobs. It is not designed for any other purpose.



- 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 an angle grinder before, familiarise yourself 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: EN166 or BS2092; dust mask - a minimum of EN149 ffp2(s) protection; Safety boots to EN345 or BS1870/4972; industrial quality gloves; residual-current device (RCD) if using a 230 volt (mains) supply.
- A personal first-aid kit should be available.
- 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 temporary or permanent disability must seek expert advice before using it.
- Although angle grinders are designed for one person operation you should always be careful you do not lift beyond your own capabilities.













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e company for a copy of the HAE le uniess you are competent to do so. Ask the You must not fit or change any abrasive

ABRASIVE WHEELS

you switch the grinder on, you must know no Check on how the on/off switch operates before

ww.hse.gov.uk/vibration. no. 2750 - Hand-arm vibration or visit hazardous. Warm your hands up before you start work, and wear gloves to keep your hands warm while you are working. Ask the hite warm while you as copy of the HAE leaflet Vibration from using this grinder can be

to the best position. ays use the side handle provided. Adjust it

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

blue industrial plug. nave either a normal square pin piug nited, or a care not to injure yourself when moving it about if may be heavier than you think. Machines designed to run directly from 230v mains will may either the promal square nin plud fitted or a portable transformer if you need to power the machine from a normal mains 230v supply. If a portable transformer has been supplied, take enbbily. The nire company will have provided a Machines with a cylindrical yellow industrial plug fitted are designed to run off an 110v

your supply. Do not try to force connections or Check that the plug on your machine matches nse rue duuger - couract rue nire company.

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

GRINDER

wear identical personal protectiv

- Απγροάγ who is working near to you will also You must wear industrial quality gloves. (2/6t/0/8LSB
- must wear safety boots (EN345 or when you are in contact with material that
- You will need to wear an appropriate dust mask with a minimum of EN149:2001ffp2 protection) to the state of t higher level of protection.

Particular Jobs or environments may require a quipment (PPE) are the minimum that should e worn whenever you use this machine. the following items of personal protective

SHOTARING

of dust - cover any surfaces or objects that may be damaged, or difficult to clean. Cutting certain materials makes a large amount

securely clamped or neid in a vice. Any work that is not part of a fixture should be

cable location and signal generator.

If you are cutting into a floor or fixture check that there are no hidden electric cables, gas or the hire company for HAE leaflet no.1415 – the hire company for HAE leaflet no.1415 – cable location and alonal energion.

Do not use this grinder in the rain or where it Clear the area of trip hazards such as rubble,

Work should stop immediately should anyone, other than those directly assisting with the work, enter the exclusion zone.

and animals away when using this equipment. angle grinder is being used with physical barriers, barrier tape and signs. Keep children exciusion zone around the area where the ect ofher people from the dust. Set up that no-one is near to you or could distract you. Make sure that the area is clear and safe and

petrol, or gas cylinders. Do not use this angle grinder where there is a danger of explosion. It will ignite tumes from several as the several and several as the sever

WORK AREA

