For guidance on managing construction health risks go to
www.hse.gov.uk/construction

Redistributed under licence from HAE by P S M Plant & Tool Hire Centres Ltd. Licence expires on 31/12/2020

0411 Safety Guidance
110/230V v:032017

Edge Sander

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 Edge Sander

1. Electricity is dangerous and must always be used with great care.
2. This edge sander is designed to sand areas of floor not accessible to a larger floor sander. You must use the appropriate sanding disc. It is not designed for any other purpose.
3. The action of this edge sander can cause injury or damage if the machine is not used in a careful and controlled way.
4. If you have not used an edge sander before, familiarise yourself with the machine on some straightforward work before you start on the main task.
5. Plan your work and think ahead to make sure you will always be working safely.
6. You must have at least the following items of personal protective equipment: goggles: 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 230 volt (mains) supply.
7. A personal first-aid kit should be available.
8. This edge sander must not be used by minors, or by anyone under the influence of drugs or alcohol.
9. This edge sander is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.
10. Although edge sanders are designed for one person operation you should always be careful you do not lift beyond your own capabilities.

Every effort has been made by HAE/EHA to ensure that the information given in this document and supporting material is accurate and not misleading. HAE/EHA cannot accept responsibility for any loss or liability perceived to have arisen from the use of any such document/material. Only Acts of Parliament and Statutory Instruments have the force of law and only the courts can authoritatively interpret the law.

Using the Edge Sander

1. Wear your protective equipment including ear defenders, dust mask and goggles.
2. Tilt the edge sander onto its back edge before switching it on.
3. Let the edge sander run up to full speed before lowering it carefully onto the surface. Be prepared for the reactive force when the sanding disc contacts the edge surface.
4. Keep the edge sander moving across the floor all the time it is running, do not let it remain still, it may cause grooves in the floor.
5. Apply only moderate pressure to the machine. Any extra pressure will overload the machine and may cause grooves in the floor.
6. Keep the sander clear of central heating and other pipes at floor level - it can damage them.
7. Keep the cable clear do not let the machine run over it.
8. If you think the cable may be cut or damaged in any way, switch off and unplug at the socket before inspecting it. If the cable attached to the edge sander is damaged, stop using the machine. Contact the hire company. If an extension cable has been damaged, do not use it again.
9. Take care not to accidentally pull the plug from the socket.
10. 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 machine. Exercise your fingers to encourage blood circulation. **Ask the hire company for a copy of the HAE leaflet no. 2150 – Hand-arm vibration or visit www.hse.gov.uk/vibration**
11. To help prevent vibration affecting your hands, operate the machine for shorter periods. Keep your hands warm – wearing gloves may help do this.
12. Tilt the edge sander off the floor surface before switching off and wait for the disc to stop completely before you put the machine down.
13. Make sure that any ventilation slots in the edge sander do not get blocked with sawdust.
14. Remember to empty the dust bag when it is half full or when you stop work: but do not empty the sawdust onto a fire.
15. Switch off and remove the plug from the socket before leaving the edge sander unattended.
16. If your equipment does not work properly do not attempt to repair it. Contact the hire company.
17. You may want to read this leaflet again. Please keep it until you finish work.

v:032017

HIRE ASSOCIATION EUROPE

Hire Association Europe
2450 Regents Court
The Crescent
Birmingham Business Park
Solihull B37 7YE

Telephone: 44 (0) 121 380 4600
Fax: 44 (0) 121 333 4109
Email: mail@hae.org.uk
website: www.hae.org.uk

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

Before Starting Work...

WORK AREA

1. Do not use this edge sander where there is a danger of explosion. It will ignite fumes from petrol, or gas cylinders.
2. 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 dust. Set up an exclusion zone around the area where the edge sander is being used with physical barriers, barrier tape and signs. Keep children and animals away when using this equipment.
4. Work should stop immediately should anyone, other than those directly assisting with the work, enter the exclusion zone.
5. Clear the area of trip hazards such as rubble, rubbish etc.
6. Do not use this sander in the rain or where it might get wet.
7. Sanding certain materials makes a large amount of dust - cover any surfaces or objects that may be damaged, or difficult to clean.

OPERATORS

1. The following items of personal protective equipment (PPE) are the minimum that should be worn whenever you use this machine. Particular jobs or environments may require a higher level of protection.
2. You will need to wear an appropriate dust mask (with a minimum of EN149:2001FFP3 protection) when you are in contact with material that causes dust.
3. You must wear safety boots (EN345 or BS1870/4972).
4. You must wear industrial quality gloves.
5. Anybody who is working near to you will also need to wear identical personal protective equipment.

EDGE SANDER

1. Check your machine, cables, plugs and dust bag. If anything is found damaged, do not use the edge sander - contact the hire company.
2. Check that the plug on your edge sander matches your supply. Do not try to force connections or improvise them.
3. Edge sanders with a cylindrical yellow industrial plug fitted are designed to run off an 110v supply. The hire company will have provided a portable transformer if you need to power the machine from a normal mains 230v supply. If a portable transformer has been supplied, take care not to injure yourself when moving it about - it may be heavier than you think. Edge sanders designed to run directly from 230v mains will have either a normal square pin plug fitted, or a blue industrial plug.
4. Always hold the edge sander correctly with two hands while working.
5. Vibration from using this edge sander can be hazardous. Warm your hands up before you start work, and wear gloves to keep your hands warm while you are working.
6. Check on how the on/off switch operates - before you switch the edge sander on, you must know how to stop it
7. Check on how the on/off switch operates - before you switch the floor sander on, you must know how to stop it.

SANDING DISC AND DUSTBAG

1. Switch off and remove the plug from the socket before making adjustments or changing the sanding disc.
2. Make sure you use the correct type of sanding disc recommended by the hire company.
3. Empty the dust bag when it is half full or when you stop work. Remember the sawdust is highly flammable.
4. Close and secure the covers after changing the sanding sheet.
5. Do not empty the sawdust bag onto a fire - it may explode.

ELECTRICAL SAFETY

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

110v machines will have a yellow industrial plug fitted. 230v machines will have either a normal square pin plug fitted, or a blue industrial plug. Read the instructions below for your machine.

110 VOLT MACHINES (YELLOW PLUG)

1. If you are using a portable transformer, plug the transformer directly into the 230 volt socket. Do not use any 230v extension cables.
2. If you need to use an extension able, follow any special instructions given by the hire company. If the hire company has not given any special instructions, you should only use a suitably rated heavy duty 110v extension cable, not longer than 50 metres (160 feet). You must only use an extension cable between the transformer and the machine.
3. Lay the extension cable 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.
4. Make sure that any extension cable connections are dry and safe.

230 VOLT MACHINES (SQUARE PIN OR BLUE PLUG)

1. Use a residual current device (RCD) plugged directly in to the 230volt socket. Plug your machine into the RCD. This will help to protect you against electric shock if the cable or machine gets damaged.
2. Use the "TEST" button to check that the RCD is working each time you use it. Reset the RCD according to the instructions supplied with it.
3. If you need to use an extension cable, follow any special instructions given by the hire company. If the hire company has not given any special instructions, you should only use a suitably rated heavy duty one, not longer than 50 metres (160 feet). Plug it directly into the RCD.
4. 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.

Summary:

110V: Wall socket > transformer > any necessary extension cable > edge sander.

230v: Wall socket > RCD > any necessary extension cable > edge sander.

HIRE ASSOCIATION EUROPE

Hire Association Europe
2450 Regents Court
The Crescent
Birmingham Business Park
Solihull B37 7YE

Telephone: 44 (0) 121 380 4600
Fax: 44 (0) 121 333 4109
Email: mail@hae.org.uk
website: www.hae.org.uk

Any unauthorised reproduction – manually or electronically – is STRICTLY prohibited

©Copyright Hire Association Europe April 2011