



For more information on health and safety in construction go to www.hse.gov.uk/construction/

0307 Mitre saw - 110/230v



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Using the Mitre Saw

1. Wear your protective equipment including ear defenders, dust mask and goggles.
2. When you have set up the mitre saw on your bench, switch on and check that it runs properly.
3. Ensure the cable is well clear of the blade.
4. Switch off and let the blade stop before you place your work piece in the correct position against the backrest and tighten the clamp.
5. Let the saw run up to full speed before pulling the saw carefully onto the clamped piece of wood to be cut.
6. If the saw starts to labour and slow down, reduce the amount of pressure you apply. Do not overload the saw.
7. Switch off if someone approaches you.
8. Switch off and unplug before making any adjustments.
9. When the cut is complete, switch off the saw and allow it to stop before removing the wood.
10. When the blade has stopped, remove any chips or other cut pieces of wood.
11. If you think the cable may be cut or damaged in any way, switch off and unplug at the socket before inspecting it.
12. If the cable attached to the mitre saw is damaged, stop using the machine. Contact the hire company. If an extension cable has been damaged, do not use it again.
13. Take care not to accidentally pull the plug from the socket.
14. Switch off and remove the plug from the socket before leaving the mitre saw unattended.
15. If your equipment does not work properly, do not attempt to repair it. Contact the hire company.
16. You may want to read this leaflet again. Please keep it until you finish work.



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

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

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Mitre Saw

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 Mitre Saw

1. Electricity is dangerous and must always be used with great care.
2. This mitre saw is designed to cut through wood and for cutting some joints in wood. It is not designed for any other purpose. Do not use it for cutting anything that may contain asbestos.
3. The action of this mitre saw can cause injury or damage if the machine is not used in a careful and controlled way.
4. If you have not used a mitre saw 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 ffp2(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 mitre saw must not be used by minors, or by anyone under the influence of drugs or alcohol.
9. This mitre saw 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 mitre saws are designed for one person operation you should always be careful you do not lift beyond your own capabilities.



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2450 Regents Court
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230V: Wall socket < < < RCD < < any necessary extension cable < < < any necessary

Summary:

1. Use a residual current device (RCD) plugged directly in to the 230volt socket.
2. Plug your machine into the RCD. This will help to protect you against electric shock if the cable or machine gets damaged.
3. 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.
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.

110V: Wall socket < < < transformer < < < necessary extension cable < < < any necessary

230 VOLT MACHINES (SQUARE PIN OR BLUE PLUG)

1. Switch off and remove the plug from the socket before making adjustments or changing the blade.
2. Make sure you use the correct type of 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.
3. If you are using a portable transformer, plug the transformer directly into the 230 volt socket. Do not use any 230V extension cables.
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.

110V: Wall socket < < < transformer < < < necessary extension cable < < < any necessary

Summary:

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2. Plug your machine into the RCD. This will help to protect you against electric shock if the cable or machine gets damaged.
3. 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.
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5. Make sure that any extension cable connections are dry and safe.

110V: Wall socket < < < transformer < < < necessary extension cable < < < any necessary

230 VOLT MACHINES (SQUARE PIN OR BLUE PLUG)

1. Switch off and remove the plug from the socket before making adjustments or changing the blade.
2. Make sure you use the correct type of 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.
3. If you are using a portable transformer, plug the transformer directly into the 230 volt socket. Do not use any 230V extension cables.
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.

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



Before Starting Work...

Useful Reference Points • www.hae.org.uk/businessguard • www.hse.gov.uk/electricity/information/construction.htm

WORK AREA

1. Do not use this mitre saw 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 mitre saw is being used with physical barriers, barrier tape and signs. Keep children and animals away from 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 saw in the rain or where it might get wet.

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 EN149:2001 ffp2 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.
6. Do not use this saw in the rain or where it might get wet.
7. Clear the area of trip hazards such as rubble, rubbish etc.
8. Protect other people from the dust. Set up an exclusion zone around the area where the mitre saw is being used with physical barriers, barrier tape and signs. Keep children and animals away from using this equipment.
9. Work should stop immediately should anyone, other than those directly assisting with the work, enter the exclusion zone.
10. Clear the area of trip hazards such as rubble, rubbish etc.
11. Do not use this saw in the rain or where it might get wet.

MITRE SAW

1. Check your machine, cables, plugs, and blades: if anything is found damaged, do not use the mitre saw - contact the hire company.
2. Check that the plug on your mitre saw matches your supply. Do not try to force connections or improvise them.
3. Mitre saws with a cylindrical yellow industrial plug fitted are designed to run on a 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. Mitre saws designed to run directly from 230V mains will have either a normal square pin plug fitted, or a blue industrial plug.
4. Make sure that the saw is switched off before you plug it into the supply.
5. Keep the cable away from the blade.
6. Always switch off and wait for the blade to stop before you change or adjust the wood you are cutting.
7. Check on how the on/off switch operates before you switch the mitre saw.