

## Using The Breaker

Before starting the machine ensure that the lever to reverse the direction of rotation (where fitted) is in the NEUTRAL position and the brush is in the rest position.

1. Adjust the handle using the height adjustment to ensure comfortable and safe operation.
2. Always grip the Moss Brush with two hands during operation.
3. With the machine switched OFF, set the brush height according to the degree of wear of brush/bristles and the nature of material being cleared. Denser material will require a higher brush setting. Start adjustment settings from higher position.
4. If fitted with a reverse action (rotation) hand lever, the rotary brush must be STOPPED before selecting direction of rotation.
5. Keep feet and hands away from the rotating brush/bristles.
6. Do not operate near vehicles or buildings as ejection of material can sometimes occur. Avoid locations near glass such as vehicles, greenhouses, or doors.
7. The Moss Brush has a mechanical device which automatically brings the sweeper into a resting position as soon as the front of the machine is raised. The brush/bristles are lifted off the ground. To operate, simply push forward and this device folds down and the brush/bristles return to contact with the ground.
8. When operating the machine with a soft metal brush (optional), ensure that the circumference guard is located correctly.

### MACHINERY FAILURE

If the Moss Brush stops functioning as a result of breakage or failure, stop work immediately and shut down the engine – seek advice from the supplying hire company.

## LIGHT/MEDIUM BREAKERS

**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 this leaflet BEFORE you use the breaker.

1. Electricity is dangerous and must always be used with great care.
2. Plan your work and think ahead to make sure you will always be working safely.
3. The breaker is designed for breaking up to 50mm depth concrete, brick raking, chase cutting, scaling, removing plaster, tamping and similar tasks, using the appropriate tools.
4. The action of the breaker can cause injury or damage if the machine is not used in a careful and controlled way.
5. If you have not used a breaker before, familiarise yourself with the machine on some straightforward work before you start on the main task.
6. The breaker must not be used by young persons or by anyone under the influence of drugs or alcohol.
7. The breaker is designed for operation by an able-bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.



## WORK AREA

1. Do not use this breaker where there is a risk of explosion. It may ignite fumes from petrol or gas cylinders.
2. Ensure the work area is clear and safe and that no-one is nearby or could cause distraction.
3. Protect other people from the noise, debris, and dust. Warn others to keep away, put barriers around the work area.
4. Check there are no hidden electric cables, gas, or water pipes where work is being carried out.
5. Breaking bricks and masonry can create a large amount of dust and debris – exercise care to minimise this with dust extraction or dust suppression.
6. If you are breaking through a wall, ensure that the rubble that may fall the other side will not cause injury or damage.

## OPERATORS

1. The following items of personal protective equipment (PPE) are the minimum that should be worn whenever using the equipment. Particular jobs or environments may require a higher level of protection.
2. Wear appropriate close fitting safety spectacles or goggles (EN166B).
3. Always wear an appropriate dust mask where dust is generated (FFP3 to be considered as the minimum level of protection).
4. This equipment is likely to cause noise levels up to 97 dB(A) – Wear appropriate ear defenders or ear plugs (EN352). You should pick ear defenders or ear plugs that can be shown to give enough protection to limit the risk of hearing loss. You may need to check that the ear defenders you pick do not make things too quiet. When ear defenders or ear plugs are too good, they make it hard to hear important orders or alarms.
5. Safety boots must be worn with non-slip soles (EN ISO 20345).
6. Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away

from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts. Clothing must be sturdy but allow complete freedom of movement.

7. When combining PPE, it is necessary to check that it is compatible in order to ensure that it will provide reliable protection when being worn together.
8. Persons working close by will also need to wear identical personal protective equipment.
9. Vibration from using this machine can be hazardous. Warm hands up before commencing work, and wear industrial quality gloves to keep hands warm while working. Find out more about the effects of vibration - Ask the hire company for a copy of the HAE leaflet no. 2150 – Hand-arm vibration or visit [www.hse.gov.uk/vibration](http://www.hse.gov.uk/vibration)
10. To help minimise vibration ensure that points, chisels, and tool bits are maintained and kept sharp, damaged accessories may increase the vibration level for the operator.

## BREAKER

1. Check the machine, cables, plugs and tool bits. If anything is found to be damaged, do not use the breaker - contact the hire company.
2. Check the plug on the machine matches the supply. Do not try to force connections or improvise them.
3. Machines fitted with a cylindrical yellow industrial plug are designed to run off a special 110v supply. The hire company will have provided a portable transformer if needed for the machine to be powered from a normal mains 230v supply. If a portable transformer has been supplied, take care not to injure yourself when moving it - it may be heavier than you think. Machines designed to run directly from 230v mains will have either a normal square pin plug fitted or a blue industrial plug.

# Before Starting Work...

4. Always use the side or any additional handles provided. Adjust it to the best position.
5. Vibration from using this breaker can be hazardous. Warm up hands before starting work and wear gloves to keep hands warm while working. Ask the hire company for a copy of the HAE leaflet number 2150 – Hand-arm vibration or visit [www.hse.gov.uk/vibration](http://www.hse.gov.uk/vibration)
6. Check how the on/off switch operates - before switching on the breaker, know how to stop it.

## TOOL BITS

1. Switch the breaker off and unplug it before changing the tool bit (typically a point or chisel).
2. The tool shank should be clean and lightly lubricated before insertion into the breaker.
3. Only use the correct tool bits specifically for this breaker. Do not use any other tool bits.

## ELECTRICAL SAFETY

The machine will only operate on one voltage, either 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 this machine.

## 110 VOLT MACHINES (YELLOW PLUG)

1. If using a portable transformer, plug the transformer directly into the 230v socket. Do not use any 230v extension cables.
2. If an extension cable is required, follow any special instructions given by the hire company. If these instructions have not been provided, only use a suitably rated heavy duty 110v extension cable, not longer than 25m (80 feet). An extension cable must only be used between the transformer and the machine.
3. Lay the extension cable out carefully avoiding liquids, sharp edges, doorways, or windows where it might become trapped and places where it may be damaged by vehicles. Unroll

it fully or it will overheat and may catch fire. Ensure that its location does not cause a tripping hazard in walkways or work areas.

4. Ensure 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 230v socket. Plug the breaker into the RCD. This will help to protect against electric shock if the cable or equipment is damaged.
2. Use the “TEST” button to check that the RCD is working each time it is used. Reset the RCD according to the instructions supplied

## INSURANCE

1. Under the terms of hire, you are responsible for the safe custody of the equipment. The hire company must be indemnified against loss or unreasonable damage such as vandalism. The best way to achieve this is by insurance.
2. The equipment must always be secured against theft or vandalism.
3. Some hire companies will offer insurance cover at an extra charge.
4. In addition, be aware that if damage is caused to property belonging to a third party or if involved in a highway accident, it is unlikely that normal insurance policies will give any protection.
5. If in any doubt regarding the insurance cover, check with the hire company or insurer immediately.

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