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0223 Safety Guidance
HAND HELD 110/230V v:032017

Banner

Hand Held Concrete Planer

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 this entire leaflet BEFORE using the Hand Held Concrete Plane

1. Always plan the job and envisage any problems in order that they may be dealt with safely.
2. Electricity can be hazardous and must always be used with great care.
3. A concrete planer produces high vibration while in operation - see vibration - reducing the risk.
4. In use, the machine will produce a large amount of dust. Ensure appropriate precautions are taken for yourself and others.
5. This concrete planer is designed for grinding, de-burring and smoothing rough concrete, terrazzo, marble, granite and sandstone. It is ideal for removing shuttering seams off fresh concrete and similar jobs.
6. In operation, the high-speed rotation fo the diamond wheel can cause injury of damage if the machine is not used in a careful and controlled way.
7. If you have not used a concrete planer before, take the time to familiarise yourself with the equipment before commencing work.
8. The following items of personal protective equipment (PPE) are the minimum required: Goggles, Dusk Mask - minimum of FFP3, Ear muffs or plugs giving protection at the ear for levels of 85 dB(A), Gloves, Overalls, RCD if using a 230 volt (mains) supply.
9. This machine must not be used by minors or anyone under the influence of drugs or alcohol.
10. This machine is designed for operation by an able bodied adult. Anyone with either a temporary or permanent disability must seek expert advice before using the machine.

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Using the Concrete Planer

1. Wear protective equipment including goggles and dust mask.
2. Check the diamond wheel is fitted correctly and securely, and the guard is properly adjusted.
3. Always grasp the planer with two hands, one hand on the handle directly above the diamond wheel, and the other on the rear handle so control can be mainatined and access to the on-off switch is maintained.
4. Always use the dust bag and empty it when it is half full. Dispose of the dust bag contents carefully and sensibly.
5. Let the concrete planer run up to speed before contacting the work surface with the front roller first. Lower the wheel and base plate carefully so that the planer is flat on the work surface.
6. Keep the base plate firmly in flat, level contact with the surface; the front roller will guide the machine over the uneven surface.
7. If the machine starts to labour and slow down, fo not move it across the surface so fast, keep the base plate firmly on the surface.
8. Lift the planer clear of the work surface before switching off.
9. The diamond wheel will continue to rotate for a few seconds after you switch off. Wait for it to stop completely before putting the concrete planer down.
10. Ensure the machine ventilation slots do not become blocked with dust and debris.
11. Keep the cable clear of the diamond wheel and any sharp edges on the work surface.
12. If the cable appears to 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. 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 unplug the machine before leaving unattended.
15. If the equipment does not work properly, do not attempt to repair it. Contact the hire company.

Please keep this leaflet safely as it may be required for future reference

v:032017

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Before Starting Work...

WORK AREA

1. Do not use the concrete planer where there is a danger of explosion. It will ignite fumes from petrol or gas cylinders.
2. Ensure the work area is clear and safe and no-one is closeby who could cause distraction.
3. Protect other people from the noise and dust. Warn others to keep away and erect barriers around the work area.
4. Any section of masonry or concrete that is not part of a fixture must be securely clamped or held in a vice before planing it.
5. Planing brick and masonry makes large amounts of dust, connect a vacuum dust extraction unit or a dust bag to the dust extraction port - check with the hire company.
6. Cover any surfaces or objects that may be damaged or difficult to clean.
7. Do not use the concrete planer on asbestos or materials containing asbestos.

OPERATORS

1. The following items of personal protective equipment (PPE) are the minimum that should be worn whenever using the plate compactor. Particular jobs or environment may require a higher level of protection.
2. The equipment is likely to cause noise levels up to 85 dB(A) – wear appropriate ear muffs or plugs giving hearing protection for this level as a minimum when operating the machine.
3. Goggles should always be worn when working with the machine.
4. An appropriate dust mask with a minimum of FFP3 must be worn when planing materials that causes dust.
5. Wear gloves to keep hands warm and overalls to protect against the dust.
6. Anyone who is working closeby will also need to wear appropriate personal protective equipment.

CONCRETE PLANER

1. Check the machine, the adjustable front roller and the adjustable base plate and the cable and plug. Do not use anything found to be damaged - contact the hire company.
2. Ensure the plug on the machine matches the supply being used. Do not try to force connections or improvise them.
3. Machines with a cylindrical yellow industrial plug fitted are designed to run off a special 110v supply. The hire company will have provided a portable transformer if the machine is to be powered from a normal mains 230v supply. If a portable transformer has been supplied take care when moving it about - ask for assistance as it may be too heavy for a single operator to move. Machines designed to run directly from 230v mains will have either a normal square pin plug fitted or a blue industrial plug.
4. Ensure the guards around the wheel are in place and adjusted correctly.
5. Always use the dust bag or vacuum extraction with the planer.
6. The on/off switch fitted to concrete planers have a lock-on facility, know how it operates before switching on the concrete planer - know how to stop the machine.

Adjusting the depth of cut

1. The front roller and rear base plate can be swivelled as one unit enabling selection of which part of the diamond wheel contacts the work surface.
2. In addition, the rear base plate can be adjusted independently for height and angle in relation tot he diamond wheel so that it is suitable for the type of material being planed and for the amount of material to be removed, which should be a maximum of 2.5 mm (1/10").
3. If the diamond wheel is adjusted for maximum efficiency it will result in minimum vibration.

Diamond Wheels

1. Ensure the correct type of diamond wheel supplied or recommended by the hire company is used for the material being used.
2. Do not attempt to fit any other type of diamond or abrasive wheel to the planer.

ELECTRICAL SAFETY

The machine will only operate on one voltage: it will be 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 one. Read the instructions below for your 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 to be used, follow any special instructions given by the hire company. If the hire company has not given any special instructions, use a suitably heavy duty 110v extension cable no longer than 50 metres (160 feet). The 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 be trapped and places where vehicles may run over it. Unroll it fully or it may overheat and catch fire.
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 into the 230v socket. Plug the machine into the RCD - this will help protect against electric shock if the cable or machine is damaged.
2. Use the "TEST" button to check the RCD is working each time it is used. Reset the RCD according to the instructions supplied with it.
3. If an extension cable is required follow any special instructions given by the hire company. If the hire company has not given any special instructions use only a suitably rated heavy duty extension cable no longer than 50 metres (160 feet). Plug it directly into the RCD.
4. Lay out the extension cable carefully avoiding liquids, sharp edges, doorways or windows where it may become trapped and places where vehicles may run over it. Unroll the cable fully or it may overheat and catch fire.
5. Ensure the extension cable connections are safe and dry.

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