Check QR Code for validity

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

Redistributed under licence from HAE by Alloa Hire Centre. Document expires on 31/07/2015

0107 Concrete mixer -110/230v

AHC TOOLS HIRE/SALES/SERVICE

Concrete Mixer

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

1. It is important to read this entire leaflet before you use the concrete mixer.
2. Plan your work and think ahead to make sure you will always be working safely.
3. Electricity is dangerous and must always be used with great care.
4. Electricity and water make a very dangerous combination. Keep electrical equipment away from rain and water.
5. Cement mixes are harmful to eyes, lungs and skin. Follow any instructions given by the manufacturers of these cement products.
6. This concrete mixer is designed for mixing concrete, mortar, plaster and similar compounds with water. It can also mix composts and other similar materials. It is not designed for any other purpose.
7. The action of this mixer can cause injury or damage if the machine is not used in a careful and controlled way.
8. If you have not used a concrete mixer before, familiarise yourself with how the machine works before you start on the main task.
9. The following items of personal protective equipment are a minimum requirement: goggles; dust mask - a minimum of ffp2(s) protection; Safety boots/wellingtons; industrial quality gloves; residual-current device (RCD) if using a 230 volt (mains) supply.
10. A personal first-aid kit should be available.
11. This machine must not be used by young persons, or by anyone under the influence of drugs or alcohol.
12. This concrete mixer is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.
13. Concrete mixers are heavy machines, get help if you have to unload it from your vehicle. 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.

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

Before Starting Work...

CEMENT MIXES AND CONTACT DERMATITIS

1. Wet cement mix is a substance that can cause contact dermatitis.
2. Contact dermatitis is a rash that may occur when the skin reacts to certain substances. The rash can vary but it is usually itchy and causes flaky skin and only occurs where the substance is in contact with the skin.
3. Wash cement or plaster mixes from skin immediately. Thoroughly rinse eyes and seek medical advice without delay.
4. Mild dermatitis will heal providing there is no further contact. If the rash persists seek medical advice. Learn more about contact dermatitis – visit www.bcds.org.uk.
5. Gloves, long sleeves and full trousers must be worn to prevent mixes coming into contact with bare skin.

WORK AREA

1. Do not use this machine where there is a danger of explosion. It will ignite fumes from petrol, or gas cylinders.
2. Make sure that the work area is clear and safe and that no other persons are close by to cause distraction.
3. Protect other people from the dust. Set up an exclusion zone around the area where the concrete mixer 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 e.g. rubble, rubbish etc.

OPERATORS

1. The following items of personal protective equipment (PPE) are the minimum that should be worn when using this machine. Particular jobs or environments may require a higher level of protection. Ensure there is no loose or flapping clothing that could get caught in the machinery.
2. An appropriate dust mask (with a minimum of ffp2 protection) must be worn when mixing materials that cause dust.
3. Safety boots/wellingtons must be worn.
4. Industrial quality gloves must be worn.
5. Anybody who is working close by will also need to wear identical personal protective equipment.

CONCRETE MIXER

1. Check the mixer, cables, plugs, drum and stand, if anything is found to be damaged, do not use - contact the hire company.
2. Check that the plug on the machine matches the supply. Do not try to force connections or improvise them.
3. Machines with a cylindrical yellow industrial plug fitted are designed to run off an 110v supply. The hire company will provide a portable transformer if the machine requires 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 about - 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, which must be connected through a residual-current device (RCD).
4. Check that the concrete mixer is sited firmly on a flat surface and safely close to your work area.
5. When the mixer is switched on, the drum will rotate and will not stop rotating until the power is switched off.
6. Check how the on/off switch operates - before switching on the concrete mixer, be aware of how to stop it. Make sure that the mixer is switched off before being plugged into the supply.

DRUM

1. Always ensure the drum is rotating before loading. Do not load a concrete mix into a stationary drum. Switching the mixer on with a full load would be more difficult and could put strain on the drum shaft.
2. Do not put hands, shovel or anything other than the mix into the drum while it is rotating.
3. The rotation of the drum is slow but very powerful. It will not stop rotating until the electric motor is switched off. Keep hands out of the way.
4. Ensure the drum remains rotating while emptying the mix.
5. When work is finished, make sure the inside and outside of the drum and the mixer are washed clean before the cement mix hardens. Always store the mixer in its normal upright position.

STAND

1. The mixer may be supplied with a stand, which raises the height of the mixer to make it easy to empty the drum into a wheelbarrow. The mixer can be used with or without the stand.
2. The stand should be sited on firm level ground close to your work area.
3. Two persons can lift and locate the mixer onto the stand and secure the locking clip.
4. Alternatively one person can tip the mixer so that it stands on the opening of the drum. Locate the stand into position and lock the clip. Tilt the stand and mixer back into the upright position; Make sure it is firmly sited. If the mixer/stand combination is too heavy or if the ground is uneven, seek help from another person.

ELECTRICAL SAFETY

1. The machine will only operate on one voltage: it will be 110v or 230v.
2. 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 the machine.

110 VOLT MACHINES (YELLOW PLUG)

1. If a portable transformer is being used, plug directly into the 230 volt socket. Do not use any 230v extension cables.
2. If an extension cable requires to be used, follow any special instructions given by the hire company. If the hire company has not given any special instructions, only use a suitably rated heavy duty 110v extension cable, not longer than 50 metres (160 feet). 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 the machine into the RCD. This will help to protect against electric shock if the cable or machine gets 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 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, 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 > concrete mixer.

230v: Wall socket > RCD > any necessary extension cable > concrete mixer.

Using the Concrete Mixer

1. Wear protective equipment including dust mask, gloves, goggles and safety footwear.
2. Do not move the concrete mixer while the drum is full.
3. Do not move the concrete mixer while it is still connected to the power supply.
4. As soon as work is finished, the mixer and especially the inside of the drum must be washed clean before the mix hardens.
5. If the cable attached to the concrete mixer appears be cut or damaged in any way, switch off and unplug at the mains before inspecting it. Do not use the mixer; contact the hire company. If an extension cable has been damaged, do not use it again.
6. Take care not to accidentally pull the plug from the socket.
7. Switch off and remove the plug from the socket before leaving the concrete mixer unattended.
8. Take care when tipping the mixer to ensure that over balancing does not occur.
9. The drum must be turning all the time there is a mix in the drum.
10. If the equipment does not work properly do not attempt to repair it. Contact the hire company.
11. You may want to read this leaflet again. Please keep it safe until you finish work.

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

©Copyright Hire Association Europe April 2011

Any unauthorised reproduction – manually or electronically – is STRICTLY prohibited

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