



CONCRETE MIXER - (110/230v)

SAFETY PRECAUTIONS & WARNINGS

It is in the interests of those operating this equipment, and for the safety of others, that these **SAFETY PRECAUTIONS & WARNINGS** are carefully read and understood before operating this equipment.

PURPOSE

1. This equipment is designed for mixing concrete, cement and plaster. It can also be used for mixing composts or other similar materials.

PERSONAL SAFETY

2. This equipment is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it. It must not be operated by minors, or by anyone under the influence of drugs or alcohol.
3. If the equipment is not used in a safe, careful and controlled way, personal injury or injury to others may result.
4. Take the necessary precautions when handling cement compounds, as they may be harmful to the eyes and lungs. Continued contact with cement may cause skin dermatitis, therefore wash hands thoroughly after contact with cement.
5. Before attempting to operate this equipment you must familiarise yourself with the equipment, its controls and operating characteristics.
6. Before starting your work, think and plan ahead to ensure you, and others around you, will be working in a safe environment.
7. When using this equipment, it is recommended that the following items of Personal Protective Equipment (PPE) be worn:
 - Ear defenders giving protection for levels up to 98dB(A).
 - Safety waterproof boots to EN345 or BS1870/4972.
 - Dust mask to a minimum of EN149ffp2(s) protection.
 - Impact resistant goggles to EN166-B or BS2092 protection.
 - Appropriate industrial gloves.

NOTE: Other types of work, or environment, may require a higher level of PPE.

8. With regard to electrical safety implications when using this equipment, see the section on 'ELECTRICAL SAFETY' below.

ELECTRICAL SAFETY

9. The operating voltage of mixers may be either 110v (yellow industrial plug connector), or 230v (square pin or blue plug connector).

110v MIXERS (Yellow Plug)

10. Only use a portable transformer and only plug the transformer directly into the 230v socket.
11. Only suitably rated, heavy-duty 110v extension cable, not longer than 50m (160ft), must be used between the transformer and the equipment. Do not use 230v extension cables.
12. When routing the extension cable, avoid emersion in liquids and trapping the cable in windows, doorways and other areas that could cause damage to the cable. Avoid laying the cable in areas that are subject to site traffic. Ensure all connections are kept dry.

230v MIXERS (Square Pin or Blue Plug)

13. To safeguard against electrical shock, always connect the equipment into a residual current device (RCD) that in turn is connected to a 230v socket.
14. Before using the equipment, press the 'RED' test button on the RCD to ensure that it is working. Re-set the RCD according to the instructions provided.
15. Only suitably rated, heavy-duty 230v extension cable, not longer than 50m (160ft), must be used between the mains (RCD) and the equipment.
16. When routing the extension cable, avoid emersion in liquids and trapping the cable in windows, doorways and other areas that could cause damage to the cable. Avoid laying the cable in areas that are subject to site traffic. Ensure all connections are kept dry.

OPERATING AREA SAFETY

17. Before commencing work, ensure that the area you are to operate the equipment in is a safe environment. Erect safety barriers and warning signs as necessary.
18. Make sure that the work area is clear of obstructions and hazards (projections, cables, pipes etc.).
19. Before commencing work, warn others who may be working in the vicinity of the equipment, to keep clear. If possible place safety barriers around your work area.
20. Protect others from noise and wet cement.
21. Anybody who is working near to you will also need to wear the appropriate PPE.
22. Do not use this equipment where there is a danger of igniting fumes from petrol, or gas cylinders.

BEFORE OPERATING THE EQUIPMENT

SAFETY CHECKS

23. Visually inspect the equipment and all its accessories (engine, mixer, drum, stand, cables, safety barriers, etc.) for serviceability (completeness, signs of damage, undue wear, etc.). Do not use the equipment if found damaged or worn - contact the hire company immediately.
24. Before attempting to operate the equipment, familiarise yourself with the equipments controls. Make sure you understand their purpose and function.
25. Stop the equipment before attempting to make any adjustments.
26. Before you start the equipment, you must know how to **STOP** it in an emergency.

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OPERATING THE EQUIPMENT

USING THE EQUIPMENT

- 27. The equipment must be sited on firm and level ground.
- 28. Ideally, the mixer drum should be mounted on its stand. The equipment is heavy; enlist additional assistance to lift and secure (with its locking clip) the mixer drum onto its stand.
- 29. When routing the electrical cable (and extension leads), avoid wet areas and sharp corners (i.e. doorways, windows, etc.).
- 30. Ensure the drum is rotating before loading mixing materials and when emptying the mixed materials.
- 31. The mixer drum rotates with a powerful rotating motion; therefore do not place hands, shovels, etc. inside the drum.
- 32. Take care; the drum will not stop rotating until the equipment is switched-off.
- 33. Do not attempt to move the mixer whilst the drum is rotating or full of mixing material.
- 34. Take care when tipping the mixed materials from the drum; undertake this action steadily to prevent the mixer from overbalancing.
- 35. If anyone approaches you, switch-off the equipment.

SECURITY AND MAINTENANCE

- 36. Visually check the condition of the equipment at the start of each day.
- 37. If the equipment operates erratically, or incorrectly, do not use and do not attempt to repair it. Inform the hire company.
- 38. Immediately you have finished using the mixer, wash it down (especially the interior of the drum) with clean water to remove all traces of cement.
- 39. Periodically clean the equipment to ensure it is free from dried cement, dust and debris.
- 40. When the equipment is left unattended for long periods (i.e. overnight), ensure it is made secure to prevent unauthorised use or loss.



COLLECTION & PICK-UP

- 41. For safety reasons this equipment requires you to use a **LORRY**.