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CIRCULAR SAW - (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 type of saw is designed for cutting wood, chipboard, MDF, plastic and other similar materials using the appropriate cutting blade.

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. Before attempting to operate this equipment you must familiarise yourself with the equipment, its controls and operating characteristics.
5. Before starting your work, think and plan ahead to ensure you, and others around you, will be working in a safe environment.
6. Vibration from this equipment may be at a level that could be hazardous to the user, if operated for extended periods. Always wear gloves and ensure hands are warm before starting work and they remain warm and dry. Do not grasp the equipment too tightly, only sufficient to safely control the machine. If you experience tingling, numbness or loss of strength in the fingers – stop working immediately. Take frequent breaks and exercise the hands and arms to minimise risks.
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 86dB(A).
 - Impact resistance goggles to EN166-B or BS2092, Grade 1.
 - Dust mask providing a minimum protection up to EN149 ffp2(s).
 - 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 this equipment may be either 110v (yellow industrial plug connector), or 230v (square pin or blue plug connector).

110v CIRCULAR SAWS (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 immersion 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 CIRCULAR SAWS (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 immersion 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. Anybody who is working near to you will also need to wear the appropriate PPE.
21. Protect others from noise, dust and debris.
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, saw wheel, guards, cables, plugs, 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. Beware of hidden metal obstructions (nails, screws, metal plates, etc.).
26. If cutting into a floor, be aware of hidden cables, pipes, etc.
27. Do not use this equipment to cut asbestos or materials containing asbestos.
28. Before you start the equipment, you must know how to **STOP** it in an emergency.

CONTINUED ON OVERLEAF >>>

OPERATING THE EQUIPMENT

CUTTING WHEEL SAFETY

29. Selection of the correct type of cutting wheel is vitally important. Select as follows:
- **Must be the correct type of wheel for the material to be cut.**
 - **The wheel speed (marked on the side of the wheel) must be greater than the spindle speed of the machine (as indicated on the machine).**
 - **Always examine the wheel before use for the presence of cracks, distortion, etc.**
30. Cutting wheels must only be fitted or changed by those trained and experienced to do so.
31. Ensure the diameter of the cutting wheel is appropriate for the equipment.
32. The cutting wheel must rotate (direction marked on the side) in the same direction as the spindle rotation of the equipment.
33. Always use sharp blades and the appropriate ones for the material being cut.

USING THE EQUIPMENT

34. If possible, secure the material to be cut in a vice, or clamped to the workbench.
35. Always use both hands to hold and control the cutter.
36. Ensure the wheel guard is correctly in place and secure. Before cutting, check that it moves freely. Never jam the guard open.
37. The riving knife (fitted just behind the cutting wheel) should only be removed/retracted when 'plunge' cutting into the middle of the work piece. At all other times it must remain in place to prevent the saw cut closing and jamming the cutting wheel.
38. The saw edge of the cutting wheel must only be used for cutting. Using the side of the wheel may cause it to shatter.
39. Always ensure the cutter wheel is running at its optimum running speed before attempting to cut.
40. Be aware of the reactive forces when the cutting wheel first contacts the material being cut.
41. This equipment is for cutting straight lines only, do not attempt to cut around corners or bends.
42. Do not allow the machine to labour, reduce depth of cut and make a series of passes.
43. The equipment has sawdust/chip extraction nozzle/aperture. Fit the sawdust/chip collection bag if supplied, if not, keep clear of debris being extracted.
44. Allow the wheel to finish rotating before extracting it from the work piece.
45. Stop the machine and un-plug it before attempting to make any adjustments or changing cutting wheels.
46. Do not leave the equipment running and unattended.
47. Do not use this equipment in the rain or where it can get wet.
48. Stop working and switch-off the machine if someone approaches you.

SECURITY AND MAINTENANCE

49. Visually check the condition of the equipment at the start of each day.
50. If the equipment operates erratically, or incorrectly, do not use and do not attempt to repair it. Inform the hire company.
51. Periodically clean the equipment to ensure it is free from dust, dirt and other debris.
52. 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

53. For safety reasons this equipment requires you to use a **VAN** or an **ESTATE**.

