



Unauthorised reproduction is prohibited

Copyright © icom 2007  
T: 0845 094 0707

## TILE 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 glazed and other types of ceramic tiles.

### 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. When using this equipment, it is recommended that the following items of Personal Protective Equipment (PPE) be worn:
  - Ear defenders providing protection up to 95dB(A).
  - 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.**
7. With regard to electrical safety implications when using this equipment, see the section on 'ELECTRICAL SAFETY' below.

### ELECTRICAL SAFETY

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

#### 110v TILE SAWS (Yellow Plug)

9. Only use a portable transformer and only plug the transformer directly into the 230v socket.
10. 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.
11. 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 TILE SAWS (Square Pin or Blue Plug)

12. To safeguard against electrical shock, always connect the equipment into a residual current device (RCD) that in turn is connected to a 230v socket.
13. 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.
14. Only suitably rated, heavy-duty 230v extension cable, not longer than 50m (160ft), must be used between the mains (RCD) and the equipment.
15. 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

16. 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.
17. Make sure that the work area is clear of obstructions and hazards (projections, cables, pipes, etc.).
18. 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.
19. Anybody who is working near to you will also need to wear the appropriate PPE.
20. Protect others from noise, spray and debris.
21. Do not use this equipment in the rain or where it may become wet.
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, cutting wheel, 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. Do not use this equipment to cut asbestos or materials containing asbestos.
26. Before you start the equipment, you must know how to **STOP** it in an emergency.

CONTINUED ON OVERLEAF >>>

## OPERATING THE EQUIPMENT

### CUTTING WHEEL SAFETY

27. 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).**
  - **The bore size of diamond wheels must be the same as the bore size of the machine.**
28. Cutting wheels must only be fitted or changed by those trained and experienced to do so.
29. When fitting cutting wheels, comply with the direction of rotation, indicated on the side of the wheel.
30. Always use sharp blades and the appropriate ones for the material being cut.

## USING THE EQUIPMENT

31. Site the equipment on firm and level surface.
32. Ensure the wheel guard is correctly in place and secure.
33. The saw edge of the cutting wheel must only be used for cutting. Using the side of the wheel may cause it to shatter.
34. Ensure that there is water in the water tank before starting work and that its level is periodically checked, top-up as necessary.
35. Once the engine has started, open the water tap and adjust the flow of water to the cutting wheel. The bottom edge of the cutting wheel must always run in water.
36. Always ensure the cutter is running at its optimum running speed before attempting to cut.
37. If the equipment has a sliding table, ensure it moves freely and unrestricted.
38. Be aware of the reactive forces when the cutting wheel first contacts the material being cut.
39. When cutting is complete, switch-off the machine and allow the cutting wheel to finish rotating before withdrawing the cut tile.
40. Do not allow the machine to labour, reduce the pressure against the work piece.
41. Do not leave the equipment running and unattended.
42. Stop working and switch-off the machine if someone approaches you.
43. Switch-off the machine, unplug the electrical cable and allow the cutting wheel finish rotating before undertaking any adjustments or changing the cutting wheel.

### SECURITY AND MAINTENANCE

44. Visually check the condition of the equipment at the start of each day.
45. If the equipment operates erratically, or incorrectly, do not use and do not attempt to repair it. Inform the hire company.
46. On completion of work, empty and rinse-out the water tank.
47. Periodically clean the equipment to ensure it is free from dust, dirt and other debris.
48. 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

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

