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## ROUTER - (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 cutting channels, grooves, bevels and a variety of profiles in wood and plastic using a range of cutters and templates.

### 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 ROUTERS (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 ROUTERS (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 (machine, cutters, 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 in the rain or where it could become wet.
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. Use the correct type of cutter for the material to be cut.
28. Ensure the cutter is positioned correctly and secure in the router.
29. Some cutters will only cut in one direction – follow the instructions provided with the cutter.
30. Where possible, secure the material to be cut in a vice, or clamp securely to the workbench.
31. Ensure the material to be worked on is free from nails, screws, etc.
32. Always use both hands to hold and control the router.
33. Ensure the equipments electrical cable is kept clear of the cutter.
34. Always ensure the equipment is running at its optimum running speed before attempting to use the equipment.
35. Be aware of the reactive forces when the cutter first contacts the work piece.
36. Keep the equipments ventilation slots clear.
37. Do not allow the machine to labour, reduce the pressure on the equipment.
38. Always allow the cutter to stop rotating before placing the equipment on the workbench.
39. Stop working and switch-off the machine if someone approaches you.
40. Stop the equipment and un-plug it before moving it or making any adjustments or changing the cutters.

### **SECURITY AND MAINTENANCE**

41. Visually check the condition of the equipment at the start of each day.
42. If the equipment operates erratically, or incorrectly, do not use and do not attempt to repair it. Inform the hire company.
43. Periodically clean the equipment to ensure it is free from dust, dirt and other debris.
44. 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**

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

