



Safety Instructions

THESE INSTRUCTIONS MUST BE READ BY THE USER BEFORE OPERATING THE MACHINE.



5.7 Breakers & Rotary Hammer Drills

- This equipment is designed to be operated by someone with normal ability. Persons with a disability or injury must assess whether their disability, when using the equipment, will affect their health and safety and the safety of others.
 - It should only be operated by someone with experience of similar equipment.
 - This equipment must not be used by anyone whose competence is impaired, for example by drink or drugs.
- 1 These machines must be operated correctly according to the manufacturer's or owner's operating instructions, which are available on request if required.
 - 2 **CHECK** that all persons and animals are clear of the work area.
 - 3 **CHECK** that long hair or clothing cannot get caught up in the rotating parts of the tool.
 - 4 Wear personal protective equipment; hard hat, safety goggles, gloves and boots with steel toe caps are usually necessary.
 - 5 When drilling (or breaking) dry, wear a dust mask. Masonry, concrete and stone dust can give rise to silicosis.
 - 6 When noise levels are uncomfortably high over 80dB(A), it is advisable to wear hearing protectors.
 - 7 If higher noise levels occur regularly when it is necessary to shout to be heard, (85dB(A) and above) the law requires that hearing protectors must be worn.
 - 8 **CHECK** that the power to the machine is off before changing tools.
 - 9 Only use the specified tools or drill bits and ensure that they are sharp and in good condition.
 - 10 Place the tool or bit in contact with the work and apply force before operating the breaker or drill.
 - 11 When operating, hold the machine firmly with both hands and stand firmly on both feet. Be aware that a drill can jam in the hole causing the machine to be twisted violently.
 - 12 When working near buried power cables and pipes or near electric wiring or plumbing in walls, locators or plans should be used to determine their position. If in doubt, seek advice.
 - 13 Breakers and drills should be kept at least 0.5 metres away from buried cables.
 - 14 Use the correct electrically insulated handles to protect against burns and shock if a live cable is struck. Wear cotton overalls, which also give considerable protection.
 - 15 If you are drilling through or breaking a wall, ensure that there are no persons or animals on the other side.
 - 16 **DO NOT** force the machine, but keep sufficient weight on it to ensure it is cutting or drilling efficiently.
 - 17 **DO NOT** use the machine to release a jammed tool or drill bit. Remove the machine from its tool (or bit) and then attempt to extract it from the work surface. Be warned it is likely to be hot.
 - 18 **DO NOT** allow the machine to run on **NO LOAD**. Switch off when the tool is lifted clear of the work surface.
 - 19 **CHECK** that the machine is off and cannot be restarted before making adjustments, changing tools or leaving it unattended.
 - 20 Vibration from this tool into your hands and arms can cause permanent discomfort and damage. Keep your hands warm and dry – wearing gloves can help. If your hands start to tingle or feel numb, stop work and exercise your fingers to restore circulation. Always use tools and cutting attachments that are sharp. If you know of a tool with less vibration or of a better way of avoiding vibration in the job, suggest this to your supervisor.
 - 21 **DO NOT** attempt repairs. Contact the Hire Company.
- Machines Powered by Electricity**
- 22 **CHECK** that the voltage of the supply is correct. The tool will be either 110 volts or 230 volts.
 - 23 The use of low voltage tools at 110V (CTE) will effectively eliminate the risk of death and greatly reduce the degree of injury from an electric fault.
 - 24 Use tools and equipment with the lowest possible voltage to suit the job.
 - 25 **DO NOT** use domestic plugs and sockets on construction sites, they are not robust enough.

- 26 When using 230V tools, the risk of injury or death from electric shock is unacceptably high unless the following precautions are taken:
- Use RCD power breakers at the supply socket to give protection for both the equipment and its power cable.
 - The RCD should be protected from dust, wet weather, mechanical damage and vibration.
 - Position power cables where they are less likely to be damaged.
 - The equipment cables and RCDs should be checked every day (or every shift) using the following as a guide:
 - CHECK** that bare wires are not visible
 - make sure that cables are not damaged and free from cuts and abrasions (apart from light scuffing)
 - CHECK** that the plug is in good condition, the casing is free from cracks, the pins are not bent or the socket is not blocked with debris or dirt
 - ENSURE** that there are no taped or other non-standard joints in the cable
 - CHECK** that the cable covering has not been pulled out of the grips at the plug or equipment. (The coloured insulation of the internal wires should not be visible)
 - CHECK** the outer casing of the equipment for damage and check for loose or missing parts or screws
 - make sure that there are no overheating or burn marks on the plug, cable and equipment
 - CHECK** the operation of the RCD power breaker by operating the test button.
- 27 Tools using 110 volts should be checked weekly as in 26(d) above.
- 28 **CHECK** regularly that all ventilation grills or holes on motor housings are clear and free from dirt.
- 29 If the automatic cut-out operates, **ALLOW** the motor to cool before re-starting.
- 30 **DO NOT** use electrical equipment in damp, wet or flammable conditions.
- 31 **DO NOT** carry equipment with the finger on the operating trigger or button.
- 32 **DO NOT** carry the equipment by its cable or disconnect a plug by pulling its cable.

Machines Powered by Compressed Air

- 33 **CHECK** that hoses and couplings are not damaged. A failure can cause injuries.
- 34 Air hoses must be blown out before connecting to a pneumatic tool. Hold the open end securely and open the air cock **CAREFULLY**. A blocked hose can become an air gun.
- 35 **CHECK** that all couplings are secure. If a coupling parts the hose will 'whip'. **NEVER** attempt to catch and hold it down, turn off the air.
- 36 **DO NOT** lift the machine by its compressed air hose.
- 37 Only use compressed air for cleaning down equipment with extreme caution. Use eye protection and ear defenders.
- 38 **DO NOT** use compressed air to clean yourself and **DO NOT** direct it at another person.
- 39 **CHECK** that all air pressure is released from the hose before disconnecting any coupling.

Hydraulic Machines

- 40 The hydraulic tool operates within specific flow and pressure ranges. Only use the power pack supplied by the hirer. (Some tools and power packs have identification labels, which should be checked to ensure that they are the same).
- 41 **WARNING.** Hydraulic tools are generally much quieter than pneumatic tools of the same weight, but they are usually **MORE** powerful.
- 42 **CHECK** hoses for deep cuts, exposed braiding, crushing, kinks, ballooning and damaged fittings and replace if necessary.
- 43 **CHECK** that couplings are clean and correctly engaged before starting work.
- 44 **DO NOT** disconnect or connect hoses with the engine running. An oil jet at pressure can cause serious injury.



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This leaflet is one in a comprehensive series of equipment safety instructions available from the CPA