



## High Pressure Drain Jetters



**THESE INSTRUCTIONS MUST BE READ BY THE OPERATOR BEFORE STARTING THE EQUIPMENT**

- 1 The high pressure drain jetter must be operated correctly according to the manufacturer's or owner's operating instructions, which are available on request if required.
- 2 Only persons who have received adequate training should use this equipment.
- 3 **DO NOT** point the lance at other persons, animals or fragile materials such as glass. Water at pressure is extremely dangerous and can penetrate the skin, even at pressures as low as 5 bar (80 psi). Get immediate attention from your doctor or the hospital if this happens.
- 4 Wear personal protective equipment as conditions determine. Safety goggles and/or visor, hard hat, safety boots, hearing protection and respiratory protection. Waterproof overalls and gloves are usually necessary when cleaning off substances hazardous to health, gloves and overalls must give special protection against these substances.
- 5 Protective clothing will **NOT** prevent the jet from penetrating the skin.
- 6 **CHECK** that all persons and animals are clear of the work area.
- 7 Use shielding screens where necessary to protect other persons and equipment from grit or solids washed out by the jets.
- 8 No entry signs shall be displayed and always clearly visible. They should state **"NO UNAUTHORISED ENTRY HIGH PRESSURE WATER JETTING IN PROGRESS"**
- 9 When starting work, if the equipment has the facility, increase the pressure **SLOWLY** until effective jetting is reached. Use the minimum pressure necessary to carry out the work.
- 10 The work area should be kept free of loose items and debris, allowing operators to have a secure footing at all times.
- 11 **DO NOT** become distracted when jetting is being carried out.
- 12 **DO NOT** use hoses other than those supplied and make sure at all times that they are not kinked and secured at regular intervals along their length.
- 13 Hoses should not be laid across roadways and routed away from pedestrian pathways.

- 14 **DO NOT** use hot water, unless specified by the manufacturer.
- 15 **DO NOT** run the equipment if there is any leakage and do not attempt to tighten a joint whilst under pressure.
- 16 **CHECK** that all water pressure in the lines is released before leaving the machine unattended or before disconnecting any connector in the hose.

- 17 **DO NOT** make repairs. Contact the Hire Company.

### **HIGH PRESSURE DRAIN JETTERS POWERED BY ELECTRICITY**

- 18 **CHECK** that the voltage of the supply is correct. The high pressure jetting drain washer will be either 110 volts or 230 volts.

- 19 The use of a low voltage machine at 110V (CTE) will effectively eliminate the risk of death and greatly reduce the degree of injury from an electric fault.

- 20 Use a machine with the lowest possible voltage to suit the job.

- 21 **DO NOT** use domestic plugs and sockets on construction sites, they are not robust enough.

- 22 **When using a 230V pressure washer the risk of injury or death from electric shock is unacceptably high unless the following precautions are taken:**

- a) Use RCD power breakers at the supply socket to give protection for both the machine and its power cable.
- b) The RCD should be protected from dust, wet weather, mechanical damage and vibration.
- c) Position power cables where they are less likely to be damaged.
- d) The machine, 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 and covers over electrical parts 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.

- 23 A machine using 110 volts should be checked weekly as in 22(d) above.
- 24 **CHECK** regularly that all ventilation grills or holes on motor housings are clear and free from dirt.
- 25 If the automatic cut-out operates, allow the motor to cool before re-starting.
- 26 **DO NOT** disconnect a plug by pulling its cable.
- 27 Unplug from the power supply before changing nozzles.

### **HIGH PRESSURE DRAIN JETTERS POWERED BY PETROL OR DIESEL MOTORS**

- 28 Position the equipment on firm and level ground. Secure if necessary to prevent accidental movement.
- 29 **CHECK** that guards are secure. **NEVER** operate the machine with missing or defective guards.
- 30 Before starting the engine the operator should familiarise himself/herself on how to stop it.
- 31 **DO NOT** smoke when refuelling. **NEVER** refuel with the engine running.
- 32 Replace the fuel caps securely on the engine and fuel container. Wipe up any spillage immediately.
- 33 Fuel containers should be in good condition and leak proof.
- 34 **DO NOT** use the machine in a hazardous or explosive atmosphere, or where fuel has been spilt.
- 35 **CHECK** that there is no combustible material lying on or against the exhaust system. The exhaust pipe and silencer get very hot.
- 36 In the event of a leak of fuel or oil developing, switch the engine off immediately.
- 37 If warning lights show or gauges register outside normal limits, switch off the engine.
- 38 **DO NOT** top up with coolant while the engine is running. Allow the radiator to cool before removing the radiator cap.
- 39 When noise levels are uncomfortably high at 85-89 dB(A). it is advisable to wear hearing protectors.
- 40 At still higher noise levels, when it is necessary to should to be heard, (90 dB(A) and above) the law requires that hearing protectors must be worn.



**CPA. 27/28 Newbury Street, Barbican, London EC1A 7HU.**  
**Tel: 020 7796 3366. Fax: 020 7796 3399.**  
**Email: [enquiries@cpa.uk.net](mailto:enquiries@cpa.uk.net)**  
**Website: [www.cpa.uk.net](http://www.cpa.uk.net)**

MAY 2004