

## **BOTTLECRUSHER OPERATING INSTRUCTIONS**

The Bottlecrusher is made for working only on glass therefore:

1. No plastic bottles or tubes, metal cans, ceramic or earthenware containers should be fed into the machine because these will cause damage and excessive wear.
2. Never put hands or other parts of the body under the metal "return stroke flaps" whilst the Bottlecrusher is working.
3. Before use place an empty (60 litre) glass granule drum in position in the base of the machine and close the front door.
4. Connect the power supply by fitting the 13 amp plug into an earthed socket. (230 volt/50 hertz) Use a clean connection.
5. After switching on the power wait approx. 10 seconds for the green lamp to come on and glow continuously. The Bottlecrusher is now ready for use.
6. Safety goggles and safety gloves must be worn before cleaning or maintaining the Bottlecrusher.
7. Offer a bottle to the machine, ideally but not essentially, with the neck pointing down.

The action of the bottle opening the top flap valve of the machine will start the electric motor . After a few seconds the green lamp will start flashing indicating that the Bottlecrusher is in use. If the electrical motor fails to start the green lamp will not flash and bottles must not be fed into the machine.

If a bottle falls between the cutter blade whilst it is stationary, it will block the mechanism and cause the white overload button on the front panel to operate. (The white safety button will pop out). To remove the blockage, simply open the top lid of the machine, (this isolates the drive motor and makes it safe), and reach into the drop tube to remove the blockage. Note; ALWAYS WEAR THE SAFETY GLOVES AND GOGGLES PROVIDED WHEN CLEARING BLOCKAGES. In some cases where the blockage cannot be reached from the top of the machine, it is possible to remove the drum from the base of the machine and reach in from below. (Again the removal of the front door of the machine isolates the drive motor). But the machine should always be isolated before carrying out any repairs / maintenance.

8. Continuous feeding of the bottles is possible whilst the motor is running and the green light is flashing.
9. The electric motor will continue to run for approx 10 seconds after the closing of the flaps and then automatically switches off. The green lamp will then glow continuously showing that the machine is ready for use.
10. As soon as the red lamp starts flashing the glass granule container (60 kg) is full and needs replacing. The red lamp indicates a risk of overflowing and serious damage will occur if the machine is allowed to continue running.
11. If the Bottlecrusher is in service and the top flap is opened or the glass granule container door is opened then the electric motor will stop automatically and the red lamp will glow continuously.
12. As soon as the top door is closed again the machine is reset by pressing the inlet valve on top of the machine. The motor will start, the red light will go out and the green light will begin flashing.
13. An emergency stop of the machine is available by pressing the red emergency button, the motor is stopped automatically.

14. To reset, turn the emergency stop button clockwise and pull out . The red lamp goes out and the green lamp glows continuously indicating the machine is ready to use.
15. For inspection or maintenance of the machine always first remove the power plug from the socket.
16. In the interest of hygiene and prolonging the life of the Bottlecrusher it is recommended that the machine is regularly cleaned and run as dry as possible. Bottles still containing some liquid will not affect the machine life. A strongly polluted damp cabinet is unhygienic and creates an unpleasant work environment. Steam cleaners, high pressure water hoses and solvents such as turpentine and benzene must not be used for cleaning.
17. In the event of breakdown the Bottlecrusher repairs must be carried out by a qualified service engineer. Failure to follow these instructions will invalidate any form of guarantee.
18. Before taking the Bottlecrusher into service the user should ensure that operators are aware of the working and operating instructions of the machine and must follow all the safety regulations.
19. The machine should be performance / Safety tested at the end of each shift during the cleaning down procedure. The performance / Safety tests should be carried out with the machine motor running;
  - Open the top cover and check that the motor stops immediately
  - Reset if ok, inform manufacturer immediately if not ok
  - Open the front door of the machine and check that the motor stops immediately
  - Reset if ok, inform manufacturer immediately if not ok
  - Press E Stop button on front panel and check that the motor stops immediately
  - Twist unlock E Stop button to reset after testing.

## CLEANING THE MACHINE.

The lining of the drop tube within the crusher is stainless steel, the purpose of this is two fold, one is to reduce wear between glass and metal and two is to provide a clean and hygienic surface.

Any residual liquid left in the bottles loaded into the crusher will over time settle onto this lining and if not cleaned will start to produce an odour.

Additionally there will be a deposit of fluid in the collection barrel that will also produce an odour

Our advice on clean down at the end of the shift would be to;

1. Unplug the machine.
2. Lift the machine top cover and clean out any particulate glass around the inside of the top cover down the drop tube.
3. Empty the collection barrel of broken glass
4. With barrel out of machine, clean and brush out the barrel enclosure area.
5. Replace the empty barrel in the machine
6. Lift the top cover of the machine and wash out the drop tube down its full length with hot soapy water and a soft cloth, any general purpose detergent is suitable. (good quality rubber gloves should be worn for this operation).
7. The water will fall through the drop tube into the empty barrel in the bottom of the machine
8. Remove the barrel and wipe down the underside of the drop tube
9. Rinse out the barrel with hot soapy water and leave to drain, leave barrel enclosure door open until next use, (to allow airing out).
10. All spare barrels should be washed and rinsed on a regular basis to meet individual requirements.

We can offer a replacement liner for the drop tube that can be quickly removed and replaced at the end of each shift, this will allow the spare liner to be washed, rinsed and ready for replacement.

A good barrel wash and clean programme should be developed by the user in line with local health and safety and hygiene systems currently employed in each location.

This cleaning operation should take no more than 10 mins / day.

## SAFETY & OPERATIONAL EQUIPMENT PROVIDED.

All new Bottlecrusher machines are supplied with the following equipment;

1. One pair of leather industrial type hand gloves, to be used when needed for clearing blockages / cleaning the machine / removing full bins from the machine.
2. One pair safety spectacles, to be used as in item 1.
3. 4 Glass Bins
4. Instruction / Operation Manual

Optional Equipment;

1. Industrial barrow for handling of filled Bins
2. Replacement drop tube liner
3. Spare Gloves
4. Spare Spectacles
5. Spare Glass Bins

Unloading the Glass Bins;

The machine is fitted with a load sensor that monitors the weight of the bin as it is being filled in use.

This load cell is preset to the safe lifting load for one person.

The person unloading filled bins from the machine must ensure that safe lifting procedures are maintained at all time during this operation, in line with current health and safety standards.

**BOTTLECRUSHER SERVICE CONTRACT**  
**DETAILS**

**All new machines carry a 12 month warranty, but this warranty covers breakdowns only and does not include a service contract.**

**For the first year we recommend a Service Contract.**

We can offer three forms of Service Contract; which can be taken out at any time during the warranty period. Should you wish to take out a Service Contract after the warranty period it will be at the discretion of Bottleworks Ltd and may involve an initial callout to assess the condition of the machine.

**Bottle Crusher Service Contract**

	Service Contract <b>(A)</b>	Repair Contract <b>(B)</b>	Total Contract <b>(C)</b>

Service Contract (A)                      your machine will be serviced twice a year at approximately six monthly intervals at our discretion. Charges will be made for any parts required during its service. Should your machine breakdown in between services then callout, labour and parts charges would be incurred. No Spare parts to be charged during 1<sup>st</sup> year WARRANTY period.

Repair Contract (B)                      As for service contract except if your machine were to breakdown in between service intervals there would be no callout charge or labour charge incurred, you would however be charged for any parts used.

Total Contract (C)                      As for repair contract except that it includes all parts used