



Surface Finishing  
Equipment Group

# ENVIROPRESS CAN CRUSHER

Model : EP005 / EP005HD



**WARNING**



READ AND FOLLOW ALL INSTRUCTIONS AND SAFETY PRECAUTIONS BEFORE  
INSTALLING OR OPERATING THIS EQUIPMENT.  
KEEP THIS MANUAL READILY AVAILABLE FOR FUTURE REFERENCE.

It is the responsibility of the employer to place this manual in the hands of the operator. This manual must be kept in a place available to those using and affected by this equipment at all times during the life of this equipment. Failure to comply with these instructions can result in serious injury or death to the operator or those in the vicinity of the equipment.

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## **SAFETY PRECAUTIONS**

**FAILURE TO USE THIS MACHINE IN ACCORDANCE WITH THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH. READ THE FOLLOWING CAREFULLY BEFORE YOU ATTEMPT TO OPERATE THE MACHINE.**

- This equipment should be used in a well ventilated area.
- This equipment must be only be used by competent operators who are properly skilled, duly trained, and have read and understood the operating and safety instructions.
- This equipment should be used in a well lit area.
- Make sure that the unit is situated on a flat, sturdy surface.
- Bolt the machine to the surface using the holes provided on the machines 4 feet
- This machine is too heavy for manual lifting. It is supplied on a pallet and should only be relocated using a forklift when palletised.
- Do not use the Machine for extended periods of time.
- DO NOT PERFORM ANY MAINTENANCE ON ANY PART OF THE MACHINE. It should be returned to the manufacturer. If maintenance is performed the machine should be isolated from the air supply.
- Make sure the unit is earthed.
- Isolate the machine from compressed air supply after use.
- As with operating any machinery, furnish all personnel in the area with approved Personal Protective Equipment such as Hand Protection, and Safety Goggles and ensure that these are worn.
- Fumes from the residue of empty paint can be toxic. Ensure appropriate respiratory protection is worn as specified in the paint manufacturers COSHH sheets
- Do not modify or substitute any equipment or controls supplied on or with the equipment without our prior written assessment and consent.
- Should any damage occur to the machine then it should be taken out of service immediately and the manufacturer contacted for advice.
- Never connect to a compressed air supply in excess of the Safe Working Pressure as stamped on the machine (normally 8 bar). If in doubt, or if this is obscured, check with the manufacturer.
- If the Enviropress is dismantled / decommissioned, ensure it complies with your local environmental laws.

## **SAFETY PRECAUTIONS** **WHEN WORKING POTENTIALLY EXPLOSIVE ATMOSPHERES**



**IGNITION OF FLAMMABLE / COMBUSTIBLE ATMOSPHERES CAN OCCUR FROM SOURCES SUCH AS STATIC DISCHARGE, SPARKS FROM MECHANICAL IMPACT, AND HIGH TEMPERATURE SURFACES.**

**USE THE MACHINE IN A WELL VENTILATED / FUME EXTRACTED AREA.**

**ENSURE THERE IS NO RESIDUAL SOLVENT / PAINT IN THE CANS BEING CRUSHED**

**FAILURE TO USE THIS MACHINE IN POTENTIALLY EXPLOSIVE ATMOSPHERES IN ACCORDANCE WITH THIS MANUAL CAN RESULT IN SERIOUS INJURY OR DEATH.**

This machine is ATEX Group II Category 2G T6 rated when used in full accordance with the operating instructions.



Group II Category 2G T6



**FAILURE TO GROUND THIS MACHINE CAN CAUSE ELECTROSTATIC DISCHARGE WHICH COULD IGNITE EXPLOSIVE ATMOSPHERES.**

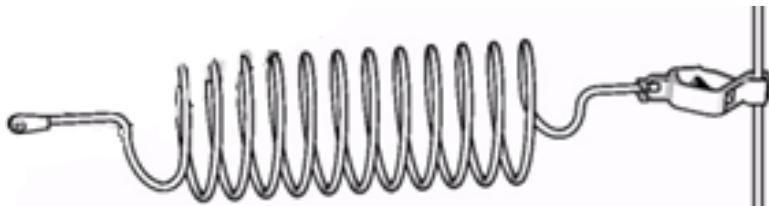
This equipment must be grounded. Grounding reduces the risk of static and electric shock by providing an escape wire for the electrical current due to static build up or in the event of a short circuit.

Refer to Figure 1 Page 7.

Attach one end of the Ground Wire (item 10) to the Ground Point (item 9) on the Can Crusher. Connect the other end of the ground wire to a true earth ground using the securing clip.

GROUND POINT ON CAN CRUSHER

EARTH POINT



## **DESCRIPTION OF MACHINE**

The Enviropress is an easy to use Pneumatic Press designed to compact empty tins and cans of capacity up to 30 litres to approximately 15% of their original size.

This smaller volume of waste reduces skip costs and maintains a tidier working environment.

The machine is fully pneumatic and uses no electrical circuitry. It also incorporates several design features and secondary interlocks to ensure safety.

Potentially flammable vapours may be released from the crushed cans, hence these could be considered as primary sources of release. The equipment has been classified as Group II Category 2G when used in full accordance with this Instruction Manual.

## **LOCATION AND INSTALLATION OF MACHINE**

- Remove all packaging from the Enviro-Press.
- Inspect the machine in a well lit area to ensure that there has been no damage during transit.
- This equipment should be sited in a well ventilated and lit area.
- The feet of the Enviro-Press should be fastened to a stable, level surface, free from vibration, and in a well lit area.
- Allow sufficient space on each side of the machine for unrestricted operation.
- Always ensure that great care is taken to protect the cylinder when moving the press.
- The machine requires a filtered regulated air supply to ensure reliable running.
- Connect the air inlet to an air supply of up to 8 bar.

## **OPERATION OF MACHINE – REFER TO FIGURE 1**

1. Connect the Air Supply to the Air Inlet on the Ball Valve (item 1).
2. Open the Ball Valve by turning handle from 90 degrees to 180 degrees.  
The Pressure Gauge (item 4) shows the air pressure in the system.
3. Release the Door Clasp (item 2) and Open the Door (item 3)

### **Crushing Cycle:**

4. Place the Can to be crushed (item 8) upright and at the centre of the Enclosure (5) and under the Crushing Plate (6)
5. Close the Door (item 3) and secure the Door Clasp (item 2)
6. The Cylinder (7) operates the Crushing Plate (6). The Crushing Plate (6) slowly descends to crush the can. The operation can be viewed through the viewing window in the door. The descent takes approximately 15-20 seconds.

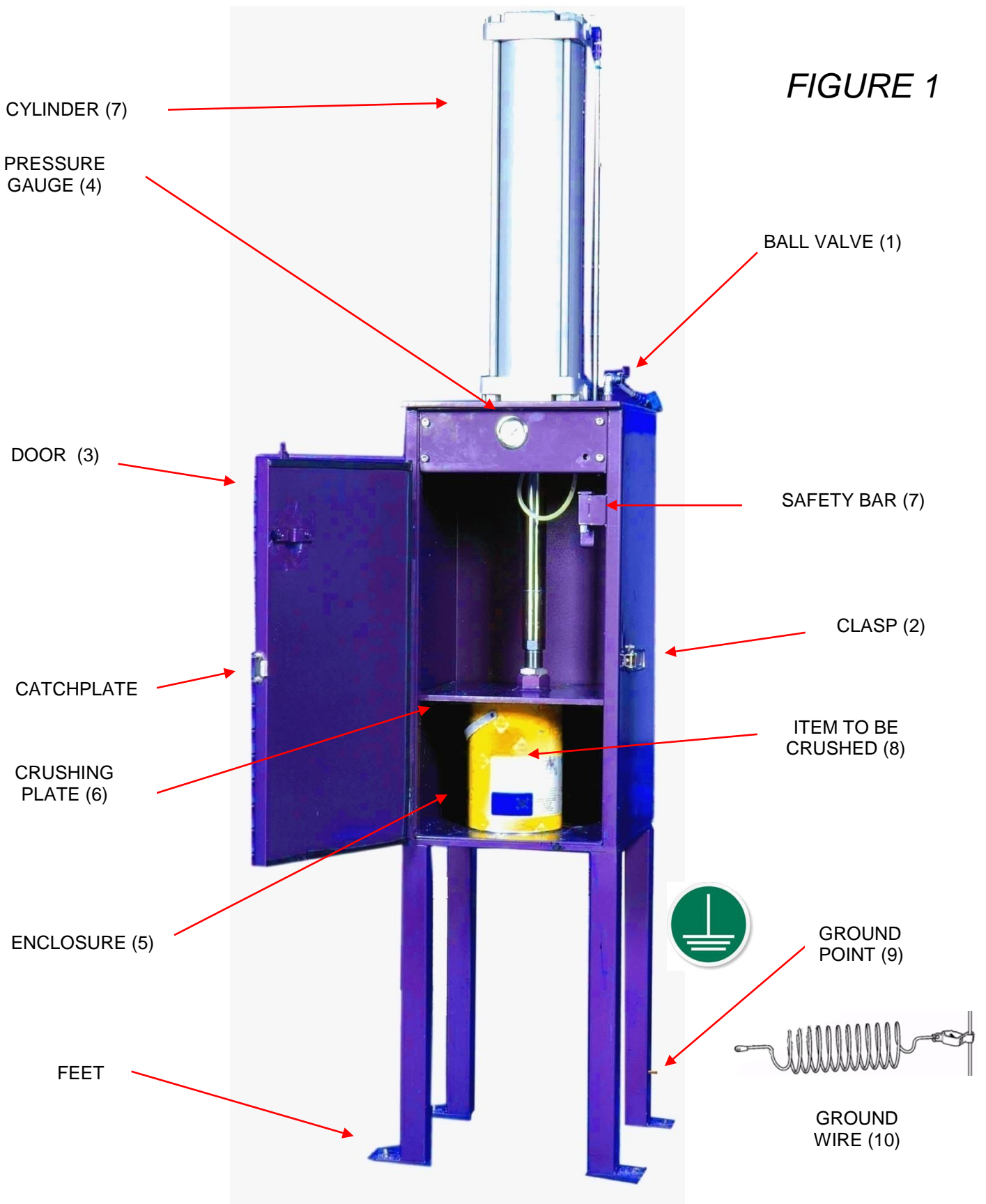
### **Release Cycle:**

7. Open the Door Clasp (item 2)
8. The Door (item 3) is still secured and cannot be opened due to the Safety Bar (item 7).
9. The Crushing Plate (6) slowly returns to its original position at the top of the Enclosure (5) and is then stationary.
10. The Door (item 3) can now be opened and the crushed can (item 8) removed.
11. The Crushing Cycle can now be repeated for the next Can- step 4

### **After Use:**

12. Isolate the power supply by closing the Ball Valve (turn handle from 180 to 90 degrees).  
The ball valve vents any air still in the system.  
The Pressure Gauge (item 4) shows zero air pressure in the system.

## PICTURES OF MACHINE / LAYOUT OF KEY COMPONENTS



## SPECIFICATION

DESCRIPTION	QUANTITY	UNIT OF MEASURE
Overall Weight	95	KG.
Height	2.05	Metre
Width	0.45	Metre
Depth	0.40	Metre
Max Air Supply Operating Pressure	10	BAR
Air Consumption (8 bar)	12	cfm
Piston Thrust Force (8 Bar) for EP005 Standard	1.6	Tonne
Piston Thrust Force (8 Bar) for EP005HD Heavy Duty	2.5	Tonne
Max. Diameter Of Cans To Be Crushed	310	mm
Max. Capacity Of Cans To Be Crushed	30	L

## SERVICING / SPARE PARTS

The Enviropress is not designed for user servicing. Should any damage occur to the machine then it should be taken out of service immediately and the manufacturer contacted for advice.

## NAME AND ADDRESS OF MANUFACTURER :-

Manufactured by  
consisting of :-

### The Surface Finishing Equipment Group



**Hogg**  
Surface Finishing  
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## **WARRANTY**

The Enviro-Press has a 12 (twelve) month warranty under normal use starting from delivery date.

The warranty is valid only when the EnviroPress is installed and operated in full accordance with this Operators Manual.

All parts subject to general wear and tear are not covered by the manufacturer's warranty.

The manufacturer will carry out all repairs and any substitutions that may be required; these will be free of charge if it is found that there is a manufacturing defect.

Should any part of the press or the entire unit require any guarantee work then the unit should be sent back to the manufacturer (previously arranged). Once it has been established that there are grounds for guarantee work the manufacturer will carry out any repair work or substitution if required.

Make sure that the EnviroPress has not been damaged during shipment. Claims must be made within 8 days of delivery.

The purchaser can avail himself of guarantee coverage only when he has complied with the guarantee conditions given below.

Hogg Blasting & Finishing Equipment Ltd / Abraclean guarantees this product at the following conditions.

- The product is guaranteed for a period of 12 months from date of purchase as certified by a delivery document issued by the retailer. When a customer asks for guarantee service he must specify the serial number and year of manufacture of the appliance.
- The guarantee covers free replacement or repair of the appliance component parts which are recognised to have manufacturing defects.
- Guarantee services are performed at the manufacturer's factory or to authorised service centres- The appliance must be sent to them carriage per-paid and shall be returned to the user at his expense and risk.

If intervention by technicians is requested under guarantee coverage at the customer's installation site then the customer shall be charged for the time necessary for the intervention, for mileage and for all room and board expenses according to fee tables in the hands of the Service Centre. Nothing will be charged for the time necessary for the intervention and the replacement of materials.

The manufacturer waives all liability for any damage that may directly or indirectly be caused to persons or property resulting from failure to comply with all the provisions in the instruction manual. In particular this regards failure to comply with warnings about placing, installing, operating and maintaining the appliance. The present guarantee does not contemplate any reimbursement for direct damages due to appliance downtime.