

**Risk
Rating**



Risk Assessment & Method Statement

Task/ activity: Operation of Bottle Piercer

Task/ activity description:

The Bottle Piercer perforates and presses the air out of the plastic bottles, improving the filling density and the quality of the bales.



Likely to be effected: Operatives, visitors

Risk Scoring = multiply severity by probability SxP=R

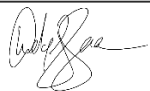
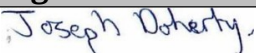
Severity	Probability	Risk Category
5 Fatality or disaster	5 Highly likely	
4 Major injury, damage or loss	4 Very likely	High = 15-25
3 Reportable injury or occurrence	3 Likely	Medium = 9-14
2 Minor injury, less than 3 days lost time or minimal loss	2 Unlikely	Low = 1-8
1 Minor injury, no lost time or damage	1 Very unlikely	

Hazard	Control measures to be taken to reduce risk			Risk Rating
		S	P	
Crushing/Cutting	- Machine fully automated, no presence of staff in the area required during normal operation. - Only trained, competent and authorised staff to operate machine. - Access to the machine must only be gained after machine is locked off and isolated so machine cannot start before the guard is closed and cannot be opened while the machine is still moving. - No maintenance or removal blockages to be	2	2	4

	carried out without stop and lock out/tag out procedure in place. Machine must be inspected before use for good condition, missing bolts in place etc.			
Entanglement	- Access to the machine not possible unless interlock device inactive. - Fixed guards in place to prevent contact with moving machine parts. Operatives must not wear loose clothing and jewellery	2	2	4
Electricity	- All power cables and switches to be visually checked for signs of damage. All safety devices fully operational. Access to the Plant Room strictly limited. - Main energy supply to the machine must be isolated and checked for stored energy must be carried out before maintenance/cleaning starts. Area free of water. - All Electrics to maintained by Competent Approved Electricians	4	2	8
Hit by ejecting material	- Guards to be in place at all times and only be removed when machine is stopped and locked off. - No one inside the Guarded Area while Bottle Piercer is Operational	2	2	4
Falls from height	- Suitable working platform with handrails provided to prevent falls from height. Ladder provided to get access to working platform. - Harness to be worn when Bottle Piercer is removed from Opening to Bunker	4	2	8
Slips/Trips	- Working platform to be regularly cleared of waste. - Operatives to wear approved safety footwear at all times.	4	2	8
Fire	- All staff trained in fire safety procedures. - Fire warden on site. - High concentration of firefighting equipment at the location, including fire hoses and various sorts of fire extinguishers. - All Fires, no matter how small, must be reported to Supervisor and Health & Safety Manager. - Two-way radios must be used to alert of a fire.	5	2	10

	Operatives must not put themselves in danger, always proceed to the safest exit.			
Noise	- Operatives to wear hearing protection equipment when in vicinity of bottle piercer. - Noise Levels above the 80dba threshold,	3	2	6

Approval and review

Assessor:	Signature:	Position:	Date:
Wesley Jameson		Health & Safety Manager	Apr 2024
Approved by:	Signature:	Position:	Date:
Joseph Doherty		Chief Executive Officer	Apr 2024
Reviewed on:	Apr 2024	New version number:	2
Date of next review:	Apr 2025, or as an when required		

PPE Requirements

- Hi-vis clothing, ear protection, 2-way radios, safety boots

Training:

- All Plant Managers / Plant Operators & all Organised to carry out Cleaning or Maintenance duties will be trained before Entering the Bottle Piercer Area

Method statement

Planning:

- Only Operatives designated & trained by the Plant Operator can undertake cleaning & maintenance activities.
- Main energy supply to the machine must be isolated, isolators switched at the Castel Key System to lock out
- Access & Egress to the Bottle Piercer to be maintained at all times



Bottle Piercer Isolation in Place



Gate in Closed Position

Physical:

- Isolator Key to be removed from the Switch



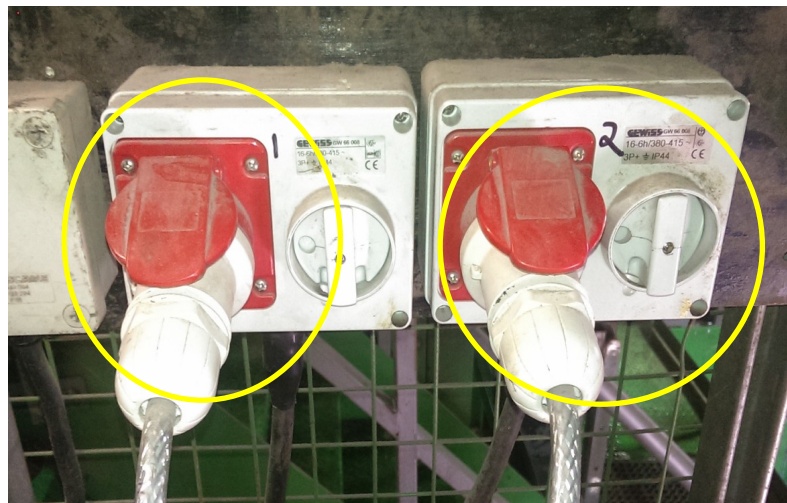


Key Placed in the Access Door to the Bottle Piercer to Enter

- Upon Entry to the Bottle Piercer the Isolation Switches to the Motors must be Switched Off & Locked Out



On Position



Off Position ready for Lock Out

- Cleaning to Commence when Switches are Locked Out

Clearing of Blockages

- Motors 1 & 2 Must be Switched off & Locked Out as above
- Lead 1 & 2 Must be removed from the Sockets



- Place Leads in to Sockets for Bottle Piercer Direct Control 2 Hand Operation



- The 2 Hand Control Safety Device to be used to Clear Blockages in the Bottle Piercer



- Operatives using the 2 Hand Control Safety Device must ensure there are No Additional Operatives / Maintenance Personnel in the Danger Area of the Bottle Piercer
- All Operatives to Remain on the outside the Guarded Area until Blockages are Cleared

Managerial/Supervisory:

- Before plant starts again, Plant Operator must make sure that all operatives have left the area of danger.
- All Padlocks are Removed from the Isolation Switches to the Bottle Piercer & that Leads 1 & 2 are returned back for Normal Operation of the Bottle Piercer
- Check Cameras to be certain No One is still in the Bottle Piercer on Opposite side of Conveyor