

# Risk Assessment

Reference	PI – GEN RA023 v5.0		RA Title	Injection Moulding Machines			Location	Pickering			
Risk Assessment Description	Generic assessment of injection moulding machines in TMBU, Bay 8 and Bay 9										
Additional Information	PUWER Regulations, Guard checks, Manual Handling RA 02										
Groups of People Affected	Employees and non-employees in the vicinity of operations										
Assessment Date	15/07/2024			Previous Date	07/05/2022			Review Due Date	Risk category 1 – 15/072025		
Likelihood of Hazard Occurring	5	Certain to Occur at Some Time	4	Likely to Occur in the Short Term	3	Likely to Occur at sometime	2	May Occur at Sometime	1	Unlikely to Occur	
Severity (Worst Case Scenario) if the Hazard Occurs	5	Fatality	4	Major Injury/ 7 Day Injury (RIDDOR)	3	Moderate Injury (Visit to Dr or A&E)	2	Minor Injury Requiring First Aid Treatment	1	Negligible Injury Not Requiring Treatment	
Risk (Likelihood x Severity)	15 – 25 High Risk Immediate response – stop activity.			6 – 14 Medium Risk Action to be rectified within 1 month.			1 – 5 Low Risk Monitor quarterly.				

List Names of All Persons Assisting in Risk Assessment	Signature	Date
Mick Ward - HSE Manager - Originator		07/06/2021
Martin Hodgson – Team Leader - Originator		
M. Ward – HSE Support		Reviewed July 2024

List Names of All Managers/ Supervisors with Direct Responsibility for this Assessment	Signature	Date

Name of Manager with overall Responsibility for this Assessment	Signature	Date

Hazard Anything with the Potential to Cause Harm	Types of Ill health, injury or environmental damage from the hazard.	Original Risk Rating			Controls Currently in Place	Residual Risk Rating			Recommended Further Controls	Action Plan Reference Number
		L	S	R		L	S	R		
Mechanical - Becoming struck by moving parts, trapped or entangled from routine production activities with powered moulding machinery and robotic ancillary equipment	Crush injuries, amputation, death	4	5	20	<p>All robotic presses have integral protective devices to prevent access to hazardous moving parts. These include light beam interlocks, protective gates and interlocked physical guards.</p> <p>All machines have accessible emergency stop buttons.</p> <p>Regular guard checks take place.</p> <p>Lock out tag out system in place</p> <p>Only trained and competent persons are allowed to work on high hazard robotic machinery maintenance.</p> <p>There are clearly visible hazard warning signs on the machines.</p> <p>All new machinery purchased will conform to the Supply of Machinery (Safety) Regulations 2008.</p> <p>Visitors on site to have a host supervising them to the appropriate level, and wear hi-vis workwear identifying them as Visitors.</p> <p>All production areas have adequate levels of illumination</p>	1	5	5		
Energy source - Compressed Air – Movement of parts -Jigs, Tool, Hopper.	Lacerations, head & eye injury, inhalation of fumes.	2	4	8	<p>Planned maintenance, regular checks,</p> <p>Correct fittings used on airlines,</p> <p>Only authorised persons are to work on compressed air systems</p> <p>Staff training, awareness and knowledge</p>	1	4	4		

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Fall From Height	Cuts, bruises, fractures, fatality.	3	5	15	Work at height is carried out from a safe working platform  Staff training, awareness and knowledge	1	5	5		
Energy source - Encountering live electrical circuits	Electrocution, burns, electrical shock	3	5	15	All equipment undergoes periodic electrical testing and maintenance  Only trained, qualified and competent persons are allowed to isolate, maintain or service machinery  LOTO procedure used when working on machinery	1	5	5		
Hot surface on machine	Burns	3	3	9	Staff knowledge and awareness  Fixed guards in place to prevent access  PPE – mandatory safety footwear  Hazard signage in place	1	3	3		
Hazardous Fumes (When clearing purging)	Breathing difficulties, fainting, and lung damage.	3	3	9	Staff awareness & staff training,  Natural ventilation in place	1	3	3		
Fire.	Fatalities, burns smoke inhalation. Stock damage, loss of production.	5	5	25	Staff awareness and alertness Fire detection and alarm system with audible and visual warnings in place  Fire extinguishers in area, Fire alarm system tested every week  Designated fire marshals, Fire Risk Assessment in place, Emergency plan in place	1	5	5		

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Noise	Hearing damage, complaints from neighbours.	3	3	9	Noise surveys conducted around the site  Mandatory wearing of hearing protection in Hearing Zones with signs in place and ear plug dispenser adjacent to work	1	3	3		
Manual Handling	Blisters, grazing to hands, sprains, strains, musculoskeletal injury	4	3	12	Staff are aware not to attempt to handle loads beyond their individual capability and to request assistance if required  Manual handling training has been given to staff, see manual handling RA02  The correct lifting aids are to be used dependant on the load  Pallet trucks are not to be loaded in excess of their safe working load  Dynamic risk assessment when handling loads to take into consideration the task, individual, load and environment  Movement of loads is to be on even surfaces with excessive gradients eliminated as far as practicable  Gloves available for operators	1	3	3		
Conveyor Belt	Trap, cuts, Crush	1	4	4	Fixed guarding on side of belt	1	4	4		
Pallet truck hitting pedestrians  Crushing or trapping between pallet truck and	Cuts, bruises, broken bones, crushed foot	4	4	16	Only trained and competent staff to use pallet trucks	1	4	4		

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other objects including fixed parts of the building.					It is mandatory for all staff to wear safety boots in areas where pallet trucks are operated  Inside the factory building dedicated vehicle routes are marked in green and all persons on site are made aware through the induction process that vehicles are in operation					
Computer use, office areas and workstations, order processing and administration.	Musculoskeletal disorders, eye strain & physical stress.	4	3	12	Staff provided with adjustable chair  Able to take breaks from work when required.	1	3	3		
Trip, slip and fall hazards  Due to:  Obstructed passageways Poor illumination Broken or uneven floor Pallet truck left unattended in a hazardous position	Cuts, bruises, broken bones	3	3	9	Staff undergo training in the use of pallet trucks  Pallet trucks stored safely when not in use  Passageways are kept clear and unobstructed, and high housekeeping standards including safely storing overhead crane controls and chains  Any repairs or maintenance required to the lighting or floor are identified so repairs can be arranged  Accident and Incident Reporting Procedure, Hazard Observation Ticket (with Sustainability) procedure is available to raise awareness of any incidents or potential hazards so they can be addressed	1	3	3		

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**Action Plan**

Action Plan Reference	Further Controls Agreed to be Taken Forward	Priority (H/M/L)	Responsible Person	Target Date	Completion Date	Signature (Completed)