

PRO

PREPARED BY		
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REVIEWED BY STRIDES PHARMA		
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Assessment reference:	16614	Number of operatives:
Type of machine:	Sachet Cartoning Machine	Number of shifts per week:
Machine location:	USA	Usage (hours per week):
Machine description:	Sachet Cartoning Machine	Operating manuals:
Machine manufacturer:	BAR	SOP's
Machine model:	p780	Operatives' training record:
Machine serial number:		Warning signs:
Modifications from 'as-supplied':	None	Raw materials:
Energy sources:	Electrical Power and Compressed Air	Maintenance manual:
Energy source ratings:	Electrical - 3phase, 480V 60Hz Pneumatic - Air @6bar.	Maintenance training record:
Safety measures:	(eg. PLd safety architecture)	Access by untrained visitors:
Assessment carried out by:	OB, RB	
Assessment date:	08.01.2024	
Assessment reviewed by:		
Assessment review date:		
Version:	1.0	

RML Assumptions: Machine has no electronic guarding at all at initial assessment, frame is present.

Keywords: See "Example Keywords" sheet for further keywords

LO (Likelihood of Occurrence)		
0.033	Almost impossible	Only in extreme circumstances
1	Highly unlikely	Though conceivable
1.5	Unlikely	But could occur
2	Possible	But unusual
5	Even chance	Could happen
8	Probable	Not surprising
10	Likely	To be expected
15	Certain	No doubt

FE (Frequency of Exposure)	
0.5	Annually
1	Monthly
1.5	Weekly
2.5	Daily
4	Hourly
5	Constantly

DPH (Degree of Possible Harm)	
0.1	Scratch or bruise
0.5	Laceration or mild ill-effect
2	Break of minor bone or minor illness (temporary)
4	Break of major bone or major illness (temporary)
6	Loss of one limb, eye, hearing (permanent)
10	Loss of two limbs or eyes (permanent)
15	Fatality

NP (Number of Persons at risk)	
1	1-2 persons
2	3-7 persons
4	8-15 persons
8	16-50 persons
12	50+ persons

No.	Assembly	Machine Location	Type of Hazard	Potential consequences
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No.	Assembly	Machine Location	Type of Hazard	Potential consequences
7	Robot Assembly	Robots Assembly	1.Control Errors 2.Mechanical Failures 3.improper Installation 4.Human Errors	robot failures can cause human injury or death and can also lead to expensive downtime

Comments	Initial assessment						Action required	Re-assessment after taking action				
	LO	FE	DPH	NP	HRN	Risk level		LO	FE	DPH	NP	HRN
<p>Hazards - Control Errors, Mechanical Failure, Improper Installation & Human Errors. Why is the hazard there - When the robot installation not done properly, while programming it may cause. What drives the hazard - Robot How could harm be caused - Operator in contact with Robot Surface. Why would the hazard occur - Operator intervention or inspection around the machine, intervention by maintenance personnel. Potential occurrence of hazard - Almost impossible Possible harm - Human injury or death</p>	0.033	4	15	1	1.98	Low, significant	Use best practice design	0.03	4	15	1	1.8

	Residual Risk Action Required	Componets/Instruments might Damage				Remarks
Risk level		Componets/ Instruments Details	LO	Critical Spare	Recommended Spare	

Risk level	Residual Risk Action Required	Componets/Instruments might Damage				Remarks
		Componets/ Instruments Details	LO	Critical Spare	Recommended Spare	
Low, significant	Operator / Maintenance Staff Awareness and Training	1.Robot	0.33	--	--	
		2.Suction Cups	2	--	✓	
		3.Pressure Switch	1.5	--	--	
		4.Photoelectric Sensor	8	✓	--	