



RML Assumptions:	Machine has no electronic guarding at all at initial assessment, frame is present.
Keywords:	See "Example Keywords" sheet for further keywords

						Initial assessment						Re-assessment after taking action				Residual Risk Action	Compo		
No	Assembly	Machine Location	Type of Hazard	Potential consequences	Comments	LO	FE D	PH NP	HRN R	isk level	Action required	LO	FE DP	н і	NP P	HRN	Risk level	Required	Componets/ Instruments Details
		Driver Pully Assembly Driven Pully Assembly	Kinetic energy (Drawing in Nip Points/Crushing Shearing)	Injuries include amputations, lacerations, confusions crushing of dissues and bones, and broken bones.	Hazards - drawing in of operator getting caught in belthangled with power belt. Why is the hazard there - Conveyor unning at linear speed > 500mmis. What drives the hazard - Electric Motor. How could harm be caused - Operator handloldbringshair becoming caught in Belt. Why would the hazard occur-operator intervention or inspection around the conveyor Potential occurrence of hazard - Possible Possible harm-Bruising, Locardions, Break Minor Bone	2	4	2 1	16 Lo	w, significant	Operator / Maintenance Staff Awareness Nip Point Warning Signs	2	4 2		1	16	Low, significant	Operator / Maintenance Staff Awareness and Training	1.Bearing
		Motor And Gearbox Assembly	Thermal Energy		Hazards - 1. Burns due to contact with hot Surface of the motor and Gestbox. 2. Motor Insulation an genetical and can usue short circuits and permanent damage to the motor. Why is the hazard there - Motors with a gentrous combination drives the conveyor and tend to heat! (extensive temperatures >60 deg celcuis can be hazards). What drives the hazard - Extendit Energy and Friction What drives the hazard - Extendit Energy and Friction Why would the hazards - Comparison in contact with hot motor and gestbox Surface. Why would the hazard occur - Operator intervention or inspection around the machine, intervention by maintenance personnel. Possible harm - Minor burns.	8	4	0.5 1	16 Lo	w, significant	Operator / Maintenance Staff Awareness Hot Surface Warning Signs	5	4 0.5		1	10	Low, significant	Operator / Maintenance Staff Awareness and Training	2.Motor& Gearbox
2	Outfeed Assembly	driver Pully Assembly Driven Pully Assembly Motor And Gearbox Assembly	1. Noise 2. Vibration	Vibration can cause changes in tendons muscles bones and joints, and can affect the nervous system collectively, these effects are known as Hand-Arm Vibration Syndrome (HAVS). Workers affected by HAVS commonly report in Affacks of whitening blenching) of one or more fingers when exposed to cold 3. Pain and cold sensations between prodict white fingers attacks 4.Loss of grip strength 8. Bone cysts in fingers and wrists 5. Noise may damage hearing . Stress . Hypersensitivity to noise . Horeased blood Pressure horeased blood Pressure horeased blood Pressure horeased heat rate	Hazards -vibrate and generates excessive force in the bearing area and reduces the life of the machine Why is the hazard there - Electric Motor drives the belt regardless of any minute missalignment which may further cause vibration. What drives the hazard - Electrical Energy. Why would the hazard occur - Operator instruction around the machine, intervention by maintenance personnel. Why would the hazard occur - Operator instruction or inspection around the machine, intervention by maintenance personnel. Potential occurrence of hazard - Constantly. Possible harm - I vibration can cause changes in tendons, muscles, bones and joints. (the highest around 8-16 Hz (Hertz or cycles per second)) 2 Noise may damage hearing (Permissible limit is 75 dB for daytime and 70 dB at night from 1m Distance)	1.5	5.0	2.0 1.0	15.0 Lo	w, significant	Regular Maintance		1.5 2.0		1.0	4.5	Negligible	Regular Maintenance	Solenoid Valve A.Photoelectric Sensor
			EMF/ Electro static	Electrostatic sparks may have enough energy to produce electric shocks, cause electronic damage, spoil mechanical components	Hazards - electrical shock, fire and arc flash. Why is the hazard there - When power up the Electric Motor & Its power cables are open and fed up floor What drives the hazard - Electrical Energy How could harm be caused - Operator in contact with hot motor and gearbox Surface. Why would the hazard occur - Operator intervention or inspection around the machine, intervention by maintenance personnel. Protential occurrence of hazard - Constantly. Possible harm - Minor burns , Electrocution	0.033	4	15 1	1.98	Negligible	Use best practice design	0.03	4 15		1	1.8	Negligible		5.Pneumatic Cylinder
			Parts becoming live under fault conditions / Short-circuit / Overload	Burn		0.033	4	0.5 1	0.066	Negligible	Use best practice design		4 0.5		1	0.06	Negligible	Operator / Maintenance Staff	
		Motor Assembly		Electrocution		0.033	4	0.5 1	0.066	Negligible	Use best practice design	0.03	4 0.5		1	0.06	Negligible	Awareness and Training	
						0.033	4	15 1	1.98	Negligible	Use best practice design	0.03	4 15		1	1.8	Negligible	ie	

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onets/Instruments might Damage								
LO	Critical Spare	Recommened Spare						
5	-	✓						
2	-	~						
1	-	√						
8	√	-						
1.5	-	-						