


## Risk Matrix

		CONSEQUENCE				
		Minor	Significant	Serious	Critical	Disastrous
PROBABILITY	Almost Certain	CAT 3 110	CAT 2 160	CAT 1 200	CAT 1 230	CAT 1 250
	Good Chance	CAT 4 70	CAT 3 120	CAT 2 170	CAT 1 210	CAT 1 240
	Likely	CAT 4 70	CAT 3 120	CAT 3 170	CAT 2 210	CAT 1 240
	Unlikely	CAT 4 70	CAT 4 120	CAT 3 170	CAT 2 210	CAT 2 240
	Extremely Unlikely	CAT 4 10	CAT 4 30	CAT 4 60	CAT 3 100	CAT 2 150

CONSEQUENCE		PROBABILITY	
Disastrous	Fatality or Permanent Serious Disability. Extensive environmental damage. > \$250K property damage.	Almost Certain	Is expected to occur in most circumstances
Critical	Extensive injuries, permanent part disability. Major environmental damage. \$50,000-\$250,000 property damage.	Good Chance	Would probably occur in most circumstances
Serious	>1week off normal duties. Moderate environmental damage. \$10,000-\$50,000 property damage.	Likely	Might occur at some time
Significant	<1 week off normal duties. Minor environmental damage. \$2,000-\$10,000 property damage.	Unlikely	Could occur at some time
Minor	First aid injury. Negligible Environmental Damage. <\$2,000 Property Damage.	Extremely Unlikely	Practically impossible

## Hierarchy of Control Table

The most desirable option  The least desirable option	1	Elimination	EL	If you eliminate a hazard you completely eliminate the associated risk.
	2	Substitution	S	You can substitute something else (a substance or a process) that has less potential to cause injury.
	3	Isolation / engineering	En	You can make a structural change to the work environment or work process to interrupt the path between the worker and the risk.
	4	Administrative	A	You may be able to reduce risk by upgrading training, changing rosters or other administrative actions.
	5	Personal protective	PPE	When you can't reduce the risk of injury in any other way, use personal protective equipment (gloves, goggles, etc.) as a last resort

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**Equipment Name:** MATERIAL HOIST - 3M 450KG  
**Make, Model:** MAKES WIENOLD LIFTE    MODELS SLK SUPERLIFT COUNTERWEIGHTS  
**Asset No.** (if required)

Hazard Type	Hazard Rating	Describe how and when (During operation, inspection, maintenance)	Consequence (Seriousness of injury)	Probability (How likely is an incident?)	Recommended Controls (Must used Hierarchy of control when determining most appropriate)
<b>Entanglement:</b> Hair, clothing, gloves, etc. may become entangled in moving parts of equipment	CAT 4 70	Loose hair and clothing may become entangled in the flexible steel wire ropes, sheaves and other moving parts of the material hoist and/or winch.	Minor	Likely	Ensure all personnel correctly trained in the safe operation of the material hoist Ensure no one enters work area. Ensure correct P.P.E. is used. Ensure correct use of warning signs barricades.
<b>Crushing:</b> Due to, unexpected movement, falling loads, plant collapse, contact with moving parts of equipment	CAT 4 70	Crushing may occur if the load being lifted slips or gives way. Crushing of the feet or toes if under the load that is being lowered. Crushing to feet or toes by the caster wheels of the material hoist.	Minor	Likely	Ensure all personnel correctly trained in the safe operation of the material hoist Ensure no one enters work area. Ensure correct P.P.E. is used. Ensure correct use of warning signs barricades.
<b>Cutting, Stabbing, Puncturing:</b> Contact with sharp objects, contact with moving parts, disintegration or ejection of equipment parts	NO				

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<b>Shearing:</b> Between two moving parts of the equipment or between a fixed object and moving part	CAT 4 70	Shearing may occur if hands or fingers are near the mast/framework section of the material hoist	Minor	Unlikely	Ensure all personnel correctly trained in the safe operation of the material hoist. Ensure no one enters work area. Ensure correct P.P.E. is used. Ensure correct use of warning signs barricades.
<b>Friction:</b> Burnt due to contact with moving parts or material	NO				
<b>Striking:</b> Struck due to uncontrolled movement, disintegration or ejection of equipment parts	CAT 4 70	Striking may occur if the load being lifted slips of the material hoist.	Minor	Likely	Ensure all personnel correctly trained in the safe operation of the material hoist Ensure no one enters work area. Ensure correct P.P.E. is used. Ensure correct use of warning signs barricades. Ensure the load is settling evenly of the material hoist.
<b>Electrical:</b> Contact with live wires, overload of circuits, damaged or poorly maintained equipment	CAT 3 120	Electrical shock could occur if the material hoist comes into contact with live overhead power lines.	Significant	Likely	Ensure all personnel correctly trained in the safe operation of the material hoist Ensure that a work site risk assessment is carried out prior to uses. Ensure no one enters work area. Ensure correct P.P.E. is used. Ensure correct use of warning signs barricades.
<b>Explosion:</b> Due to gases or other substances during operation of the equipment	NO				

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<b>Slipping, tripping:</b> Due to poor housekeeping, obstacles	NO				
<b>Falling:</b> Due to lack of work platform, stair or ladders, unprotected holes, penetrations, poor floor surfaces	CAT 4 70	The material hoist could fall over if use on uneven or muddy surfaces.	Minor	Likely	Ensure all personnel are correctly trained in the safe use of material hoist. Ensure the ground surface is suitable for material hoist use. Ensure no one enters work area. Ensure correct P.P.E. is used. Ensure correct use of warning signs barricades.
<b>Ergonomic factors:</b> Poorly designed seating, repetitive body movement, poor body posture, excessive effort, poor lighting	CAT 4 70	Muscle strains may occur when trying to push or pull the material hoist. Muscle strains may occur from handling the counterweights.	Minor	Unlikely	Ensure all personnel are correctly trained in the safe use of material hoist. Ensure that the material hoist is not loaded beyond the limits of the operator. Ensure care is taken when handling the counterweights. Ensure no one enters work area. Ensure correct P.P.E. is used. Ensure correct use of warning signs barricades.
<b>High Pressure Fluid:</b> Contact with fluids under pressure due to failure or misuse	NO				
<b>Suffocation:</b> Due to lack of oxygen or atmospheric contamination	NO				

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<b>High temperature or Fire:</b>  Contact with objects at high temperature or injured by fire	NO				
<b>Temperature (thermal comfort):</b>  Ill health due to exposure to high or low temperatures	NO				
<b>Other Hazards:</b> <ul style="list-style-type: none"> <li>• Chemicals - Toxic Gases or Vapours, Fumes, Dusts</li> <li>• Noise - Noise levels &gt; 85db(A)</li> <li>• Vibration</li> <li>• Radiation</li> <li>• Other (Please specify)</li> </ul>	NO				

Always follow the manufacturer's operators manual instructions and conduct a site specific risk assessment. The above information can only be general in nature and used as a guide if the hirer uses this item of equipment for the purpose intended by the manufacturer.

**Person/s carrying out assessment:**

Name: Allen Besseling      Lic #: HRW098239      Date: 22/03/2019

**Reviewed by:**

Name: \_\_\_\_\_      Role: \_\_\_\_\_      Date: \_\_\_\_\_

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