



# Molnar Hoists Generic Risk Assessment: Four Post Hoists

TYPE	
Molnar Hoists Vehicle Hoists: Four Post Hoists	
MODELS	
	<p>Four Post Hoist <b>4488 Series</b></p>
	<p>Rail Four Post Hoist <b>4488R Series</b></p>
SAFETY FEATURES	
<ul style="list-style-type: none"> <li>• Automatic cable failure safety locks</li> <li>• Dead-man controls stop operation when released</li> <li>• Travel limit switches</li> <li>• Hydraulic overload protection valve</li> <li>• Cylinder flow restriction valves</li> <li>• Mechanical locking system</li> <li>• Instruction Manuals</li> <li>• Operations Instruction Decals</li> </ul>	

**NOTE:** This risk assessment does not replace a site or operator specific risk assessment. For further specific hazards and user information, reference should be made to the operation instructions or manuals and the relevant technical standards.

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HAZARD	RISK SCORE (without Controls)	CONTROLS	RISK SCORE (with Controls)
<b>Equipment tipping over</b>	MODERATE L: Unlikely C: Critical	<ul style="list-style-type: none"> <li>• Ensure equipment is installed by competent person as per manufacturer’s recommendations.</li> <li>• Ensure the siting information provided to the installer is accurate and correct.</li> <li>• Ensure operators conduct pre-operational checks</li> <li>• Ensure equipment is maintained by a competent person as per manufacturer’s recommendations</li> <li>• Ensure that only trained, authorised operators who are familiar with instructions and operation manual use the equipment.</li> </ul>	LOW L: Almost Impossible C: Critical
<b>Crushing between equipment/load and fixed structures or floor</b>	SIGNIFICANT L: Possible C: Critical	<ul style="list-style-type: none"> <li>• Ensure that only trained, authorised operators who are familiar with instructions and operation manual use the equipment.</li> <li>• Ensure that only authorised personnel are allowed in the working area.</li> <li>• Ensure operators conduct pre-operational checks</li> <li>• Ensure equipment is maintained by a competent person as per manufacturer’s recommendations</li> <li>• Ensure equipment is installed by competent person as per manufacturer’s recommendations.</li> <li>• Ensure equipment is installed and area maintained with sufficient clearance from equipment and load to any fixed structures.</li> <li>• Equipment construction, safety features, mechanical load holding and operating instructions are designed to guard against hazard.</li> </ul>	LOW L: Almost Impossible C: Critical
<b>Contact with live electrical conductors</b>	MODERATE L: Unlikely C: Critical	<ul style="list-style-type: none"> <li>• Ensure equipment is installed and maintained by competent person as per manufacturer’s recommendations.</li> <li>• Ensure electrical work carried out by a licensed electrician.</li> <li>• Equipment construction designed to guard against hazard.</li> </ul>	LOW L: Almost Impossible C: Critical
<b>Load falling from Equipment</b>	SIGNIFICANT L: Possible C: Critical	<ul style="list-style-type: none"> <li>• Ensure operators perform risk assessment before lifting different vehicles.</li> <li>• Ensure operators can identify the vehicle’s correct lifting points.</li> <li>• Ensure operators have appropriate lifting adaptors available.</li> <li>• Ensure operators are properly equipped to secure the load on the equipment.</li> <li>• Ensure operators conduct pre-operational checks</li> <li>• Ensure equipment is maintained by a competent person as per manufacturer’s recommendations</li> <li>• Ensure equipment is installed by competent person as per manufacturer’s recommendations.</li> <li>• Ensure that only trained, authorised operators who are familiar with instructions and operation manual use the equipment.</li> <li>• Ensure that only authorised personnel are allowed in the working area.</li> <li>• Ensure vehicle is never driven while hoist is raised.</li> <li>• Equipment construction and instructions are designed to guard against hazard.</li> </ul>	LOW L: Almost Impossible C: Critical

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HAZARD	RISK SCORE (without Controls)	CONTROLS	RISK SCORE (with Controls)
<b>Personnel falling from or slipping off Equipment</b>	MODERATE L: Possible C: Severe	<ul style="list-style-type: none"> <li>• Ensure that only trained, authorised operators who are familiar with instructions and operation manual use the equipment.</li> <li>• Ensure that only authorised personnel are allowed in the working area.</li> <li>• Instructions advise personnel are not permitted to ride or climb on hoist.</li> <li>• Owner Controls, Management &amp; Supervision</li> </ul>	LOW L: Almost Impossible C: Severe
<b>Contact with moving parts during testing, inspection, maintenance, cleaning or repair</b>	MODERATE L:Possible C: Severe	<ul style="list-style-type: none"> <li>• Ensure that only trained, authorised operators who are familiar with instructions and operation manual use the equipment.</li> <li>• Ensure equipment is maintained by a competent person as per manufacturer’s recommendations</li> <li>• Ensure equipment is installed by competent person as per manufacturer’s recommendations.</li> <li>• Ensure that only trained, authorised operators who are familiar with instructions and operation manual use the equipment.</li> <li>• Ensure that only authorised personnel are allowed in the working area.</li> <li>• Ensure that no loose clothing or hair is permitted in the working area.</li> <li>• Ensure operators are properly equipped to conduct their maintenance.</li> </ul>	LOW L:Unlikely C: Minimal
<b>Injury from trip hazards</b>	LOW L:Possible C: Modest	<ul style="list-style-type: none"> <li>• Ensure only appropriate footwear allowed in working area.</li> <li>• Ensure that only trained, authorised operators who are familiar with instructions and operation manual use the equipment.</li> <li>• Ensure equipment is installed and maintained by competent person as per manufacturer’s recommendations.</li> <li>• Ensure that only authorised personnel are allowed in the working area.</li> <li>• Ensure operators keep the equipment clean as part of their maintenance.</li> </ul>	LOW L:Unlikely C: Modest
<b>Contact with fluids under high pressure</b>	MODERATE L:Possible C: Severe	<ul style="list-style-type: none"> <li>• Ensure equipment is installed and maintained by competent person as per manufacturer’s recommendations.</li> <li>• Ensure operators conduct pre-operational checks</li> <li>• Ensure that only authorised personnel are allowed in the working area.</li> <li>• Ensure equipment is protected from exposure to environmental elements.</li> <li>• Ensure personnel wear eye protection while in the working area.</li> <li>• Equipment construction designed to guard against hazard.</li> </ul>	LOW L:Almost Impossible C: Severe

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HAZARD	RISK SCORE (without Controls)	CONTROLS	RISK SCORE (with Controls)
<b>Injury from water contact with electrics</b>	MODERATE L: Unlikely C: Critical	<ul style="list-style-type: none"> <li>• Owner must ensure equipment is appropriately sited/protected away from elements.</li> <li>• Ensure equipment is installed and maintained by competent person as per manufacturer's recommendations.</li> <li>• Ensure the siting information provided to the installer is accurate and correct.</li> <li>• Ensure electrical work carried out by a licensed electrician.</li> </ul>	LOW L: Almost Impossible C: Critical
<b>Inadequate lighting</b>	LOW L: Likely C: Minimal	<ul style="list-style-type: none"> <li>• Owner must ensure adequate lighting available for operator.</li> </ul>	LOW L: Unlikely C: Minimal

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## RISK SCORE ASSESSMENT

<b>CONSEQUENCE SCORE 'C'</b>	<i>Multiple fatalities and/or multiple significant irreversible disabilities.</i>	<b>Catastrophic</b>	Significant	Significant	High	High	High
	<i>Single fatality and/or severe irreversible disabilities</i>	<b>Critical</b>	Low	Moderate	Significant	High	High
	<i>Long term injuries/disability or short term hospitalization and rehabilitation.</i>	<b>Severe</b>	Low	Low	Moderate	Significant	High
	<i>Injury requiring medical treatment and sustained lost time.</i>	<b>Modest</b>	Low	Low	Low	Moderate	Significant
	<i>Injury requiring minimal medical treatment or first aid.</i>	<b>Minimal</b>	Low	Low	Low	Low	Moderate
<b>RISK SCORE ASSESSMENT TABLE</b>			<b>Almost Impossible</b>	<b>Unlikely</b>	<b>Possible</b>	<b>Likely</b>	<b>Almost Certain</b>
			<i>The event will only occur in exceptional circumstances.</i>	<i>The event is not likely to occur at any time in the future.</i>	<i>The event may occur some time in the future.</i>	<i>The event is highly likely to occur within the next 3 years or has occurred more than once in the past.</i>	<i>The event is almost certain to occur within a year.</i>
			<b>LIKELIHOOD SCORE 'L'</b>				

<b>RISK SCORE 'R'</b>	High	<i>Must Complete Control Evaluation. Executive Review</i>
	Significant	<i>Must Complete Control Evaluation. Senior Management Review</i>
	Moderate	<i>Management responsibilities must be defined. Control evaluation where appropriate. Management Review.</i>
	Low	<i>Monitor. Examination of controls is not specifically required.</i>

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## REFERENCES

### **AS/NZS 2550.9:1996** – Cranes-Safe use, Part 9: Vehicle hoists

- Section 4: SITING
- Section 5: OPERATION
- Section 6: MAINTENANCE, INSPECTION AND REPAIR

### **AS/NZS 1418.9:1996** - Cranes (including hoists and winches), Part 9: Vehicle hoists

- Section 2: DESIGN
- Section 3: INSTALLATION
- Section 5: OPERATION AND MAINTENANCE INSTRUCTIONS