



Molnar Hoists Generic Risk Assessment: Four Post Hoists

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

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)
Equipment tipping over	MODERATE L: Unlikely C: Critical	<ul style="list-style-type: none"> • Ensure equipment is installed by competent person as per manufacturer’s recommendations. • Ensure the siting information provided to the installer is accurate and correct. • Ensure operators conduct pre-operational checks • Ensure equipment is maintained by a competent person as per manufacturer’s recommendations • Ensure that only trained, authorised operators who are familiar with instructions and operation manual use the equipment. 	LOW L: Almost Impossible C: Critical
Crushing between equipment/load and fixed structures or floor	SIGNIFICANT L: Possible C: Critical	<ul style="list-style-type: none"> • Ensure that only trained, authorised operators who are familiar with instructions and operation manual use the equipment. • Ensure that only authorised personnel are allowed in the working area. • Ensure operators conduct pre-operational checks • Ensure equipment is maintained by a competent person as per manufacturer’s recommendations • Ensure equipment is installed by competent person as per manufacturer’s recommendations. • Ensure equipment is installed and area maintained with sufficient clearance from equipment and load to any fixed structures. • Equipment construction, safety features, mechanical load holding and operating instructions are designed to guard against hazard. 	LOW L: Almost Impossible C: Critical
Contact with live electrical conductors	MODERATE L: Unlikely C: Critical	<ul style="list-style-type: none"> • Ensure equipment is installed and maintained by competent person as per manufacturer’s recommendations. • Ensure electrical work carried out by a licensed electrician. • Equipment construction designed to guard against hazard. 	LOW L: Almost Impossible C: Critical
Load falling from Equipment	SIGNIFICANT L: Possible C: Critical	<ul style="list-style-type: none"> • Ensure operators perform risk assessment before lifting different vehicles. • Ensure operators can identify the vehicle’s correct lifting points. • Ensure operators have appropriate lifting adaptors available. • Ensure operators are properly equipped to secure the load on the equipment. • Ensure operators conduct pre-operational checks • Ensure equipment is maintained by a competent person as per manufacturer’s recommendations • Ensure equipment is installed by competent person as per manufacturer’s recommendations. • Ensure that only trained, authorised operators who are familiar with instructions and operation manual use the equipment. • Ensure that only authorised personnel are allowed in the working area. • Ensure vehicle is never driven while hoist is raised. • Equipment construction and instructions are designed to guard against hazard. 	LOW L: Almost Impossible C: Critical

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

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

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RISK SCORE ASSESSMENT

CONSEQUENCE SCORE 'C'	<i>Multiple fatalities and/or multiple significant irreversible disabilities.</i>	Catastrophic	Significant	Significant	High	High	High
	<i>Single fatality and/or severe irreversible disabilities</i>	Critical	Low	Moderate	Significant	High	High
	<i>Long term injuries/disability or short term hospitalization and rehabilitation.</i>	Severe	Low	Low	Moderate	Significant	High
	<i>Injury requiring medical treatment and sustained lost time.</i>	Modest	Low	Low	Low	Moderate	Significant
	<i>Injury requiring minimal medical treatment or first aid.</i>	Minimal	Low	Low	Low	Low	Moderate
RISK SCORE ASSESSMENT TABLE			Almost Impossible	Unlikely	Possible	Likely	Almost Certain
			<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>
			LIKELIHOOD SCORE 'L'				

RISK SCORE 'R'	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