# Molnar Hoists Generic Risk Assessment: Air Jacking Beams

## TYPE
Molnar Hoists Jacking Beam: Air Jacking Beam

## MODELS
- Air Jacking Beam
- JB11 Series

## SAFETY FEATURES
- Dead-man raise button stops operation when released
- Hydraulic overload protection valve
- Covers over mechanical components
- Cylinder flow restriction
- Mechanical locking system
- Instruction Manual
- 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.
<table>
<thead>
<tr>
<th>HAZARD</th>
<th>RISK SCORE (without Controls)</th>
<th>CONTROLS</th>
<th>RISK SCORE (with Controls)</th>
</tr>
</thead>
</table>
| Crushing between equipment/load and fixed   | MODERATE L: Possible C: Severe | ● 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.  
● Equipment construction, safety features, mechanical load holding and operating instructions are designed to guard against hazard. | LOW L: Almost Impossible C: Severe |
| structures or floor                         |                               |                                                                                                                                                                                                                                                                                                                                            |                             |
| Load falling from Equipment                | MODERATE L: Possible C: Severe | ● 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.  
● Equipment construction and instructions are designed to guard against hazard. | LOW L: Almost Impossible C: Severe |
| Contact with moving parts during testing,   | LOW L: Possible C: Modest      | ● 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     |
| inspection, maintenance, cleaning or repair |                               |                                                                                                                                                                                                                                                                                                                                            |                             |
| Injury from trip hazards                    | LOW L: Possible C: Modest      | ● Ensure only appropriate footwear allowed in working area.  
● Ensure proper management of air supply lines.  
● Ensure that only authorised personnel are allowed in the working area. | LOW L: Unlikely C: Modest     |
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</table>
| Contact with air/fluids under high pressure  | MODERATE                     | ● 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 |
| Inadequate lighting                          | LOW                          | ● Owner must ensure adequate lighting available for operator.              | LOW  
L: Unlikely  
C: Minimal |
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## RISK SCORE ASSESSMENT

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

## RISK SCORE ASSESSMENT TABLE

<table>
<thead>
<tr>
<th>RISK SCORE ‘R’</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High</strong></td>
<td><em>Must Complete Control Evaluation. Executive Review</em></td>
</tr>
<tr>
<td><strong>Significant</strong></td>
<td><em>Must Complete Control Evaluation. Senior Management Review</em></td>
</tr>
<tr>
<td><strong>Moderate</strong></td>
<td><em>Management responsibilities must be defined. Control evaluation where appropriate. Management Review.</em></td>
</tr>
<tr>
<td><strong>Low</strong></td>
<td><em>Monitor. Examination of controls is not specifically required.</em></td>
</tr>
</tbody>
</table>

*Revised: 14 July 2016*
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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