RISK ASSESSMENT
MANAGEMENT OF HEALTH AND SAFETY AT WORK REGULATIONS 1999

RISK ASSESSMENT

ASSESSMENT REFERENCE NO RRA021

DESCRIPTION OF TASK TO BE CARRIED OUT:
The following risk assessment looks at the hazards and controls involved with the erection of the PORTA-GANTRY 5000T. The risk assessment was carried out on the manufacturing site, during an erection of the PORTA-GANTRY 5000T. The conditions were stable at the time of observation, the area was clear of obstruction, the weather was dry and the flooring was stable and even.

Please use this risk assessment as a guide only, all customers must complete their own method statement and risk assessment to suit the environment in which the equipment is being used.

OTHER PERSONS INVOLVED IN RISK ASSESSMENT N/A

DATE OF ASSESSMENT 10/04/2017

MANAGERS AUTHORISATION

REVIEW DATE 10/04/2018

WHAT ARE THE HAZARDS?
WHO MIGHT BE HARMED AND HOW?

Likelihood Severity Risk Rating

Ph: Physical Hazard
MH: Management Hazard

1. Unloading equipment.
2. Assembly of the A-Frames
3. Movement of beam to fit A-Frames
4. Movement of A-Frames
5. Lifting and fitting trolley to the A-Frame

Severe Risk Ranking Matrix
(For estimating relative risk and ranking numerically)

<table>
<thead>
<tr>
<th>SEVERITY OF HARM</th>
<th>MINOR (1)</th>
<th>MEDIUM (2)</th>
<th>HIGH (3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOW (1)</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>MED (2)</td>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>HIGH (3)</td>
<td>3</td>
<td>6</td>
<td>9</td>
</tr>
</tbody>
</table>

Quantitative
The severity of harm
3 - MAJOR (Death, Major Illness causing long term disability)
2 - SERIOUS (Illness or injuries causing short term disability)
1 - SLIGHT

The likelihood of harm
3 - HIGH (Certain/near certain that harm will occur)
2 - MEDIUM (Where harm will often occur)
1 - LOW (Where harm will seldom occur)

WHAT CONTROLS ARE IN PLACE?

Physical Hazard - Movement of heavy equipment in position:
The personnel lifting parts of the PORTA-GANTRY 5000T
HOW: Incorrectly lifting without help causing muscular strain

Likelihood Severity Risk Rating
3 2 6

• The use of correct manual handling techniques will control the risk of muscular strain. Personnel should be clear of what manual handling techniques to use.
• Communication between personnel ensuring everyone is clear of task, lifting together.

IF CONTROLS ARE IN PLACE

Likelihood Severity Risk Rating
1 2 2

WHAT ADDITIONAL CONTROLS ARE REQUIRED?
No additional controls are required.

PROCESS STEPS INVOLVED?
1. Unloading equipment.
2. Assembly of the A-Frames
3. Movement of beam to fit A-Frames
4. Movement of A-Frames
5. Lifting and fitting trolley to the A-Frame

Physical Hazard - Lifting of equipment when assembled:
The personnel scissoring up the A-Frames
HOW: Lifting a large load alone causing muscular strain

Likelihood Severity Risk Rating
3 2 6

• Three to Four man lift to erect second side of the PORTA-GANTRY 5000T (Scissor up), using correct manual handling techniques.
• Communication between personnel ensuring everyone is clear of task, lifting together.
• The option is available to erect the PORTA-GANTRY 5000T mechanically, eliminating the risk of muscular strain. The mechanical options are using a forklift to lift the beam or a chain hoist to lift the A-Frames into position.

IF CONTROLS ARE IN PLACE

Likelihood Severity Risk Rating
1 1 1

WHAT ADDITIONAL CONTROLS ARE REQUIRED?
No additional controls are required. Customers are encouraged assess the manual handling impacts on their own site to determine how many individuals the lifts will require.

PROCESS STEPS INVOLVED?
1. Scissor up the A-Frame
<table>
<thead>
<tr>
<th>Physical Hazard:</th>
<th>WHO:</th>
<th>HOW:</th>
<th>2</th>
<th>2</th>
<th>4</th>
<th>1</th>
<th>1</th>
<th>1</th>
<th>N/A</th>
<th>RISK ASSESSMENT 1. Assemble A-Frame 2. Adjust height of the A-Frame for beams 3. Position beams (either to A Frame or over Engine) 4. Scissor up A-Frame</th>
</tr>
</thead>
</table>
| Physical Hazard: | Equipment Nip Points | The personnel lifting and fitting parts of the **PORTA-GANTRY 5000T** | Catching fingers and/or hands in equipment nip points | • The O&M and video sequence clearly demonstrate how to erect the equipment to ensure no fingers are trapped.  
• There is hazard tape along the beam where potential nip points could be present to alert personnel erecting the equipment.  
• Training of personnel | 2 | 2 | 4 | 1 | 1 | 1 | Providing the customer follows the instructions given by Reid Lifting, there is no requirement for any further controls. |
| Physical Hazard: | Bolts insertion | The personnel assembling parts of the **PORTA-GANTRY 5000T** | Forcing bolts into place causing hand injuries | • The use of cut proof safety gloves will protect hands when placing bolts into place.  
• The O&M and video demonstrate how to place bolts in place correctly.  
• Training of personnel | 2 | 2 | 4 | 1 | 1 | 1 | No additional control are required. |
| Physical Hazard: | Falling Equipment | The personnel lifting and assembling parts of the **PORTA-GANTRY 5000T** | Dropping equipment when moving into place. | • Follow the O&M and instructional videos to ensure the task is carried out correctly.  
• Unless absolutely necessary, all work should be carried out at ground or shoulder level.  
• Ensure appropriate safety headwear is worn when erecting the **PORTA-GANTRY 5000T**  
• All personnel must vacate the immediate workspace when working at height is in progress. | 2 | 3 | 6 | 1 | 1 | 1 | 1. Tighten bolts in beam on cheek plate. |
| Physical Hazard: | Working at Height: | The personnel climbing a ladder to affix sections of the **PORTA-GANTRY 5000T** together. | Falling from a ladder. | • Appropriate safety headwear must be worn when working at height.  
• Use a stepladder or platform ladder of appropriate height and in good working condition.  
• Maintain three points of contact when working on the ladder. If two hands are required, use feet and body.  
• Follow correct stepladder and platform ladder safety procedures when working at height  
• Additional personnel can be used to observe those on the step ladder or platform ladder, ensuring all safety precautions are met. | 2 | 2 | 4 | 1 | 1 | 1 | 1. Scissor up A-Frame 2. Tighten bolts in beam cheek plates |

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**Physical Hazard: 5000T**

**WHO:**

- The personnel lifting and fitting parts of the **PORTA-GANTRY 5000T**
- The personnel assembling parts of the **PORTA-GANTRY 5000T**
- The personnel lifting and assembling parts of the **PORTA-GANTRY 5000T**
- The personnel climbing a ladder to affix sections of the **PORTA-GANTRY 5000T** together.

**HOW:**

- Catching fingers and/or hands in equipment nip points
- Forcing bolts into place causing hand injuries
- Dropping equipment when moving into place.
- Falling from a ladder.