KNOW HOW...KNOW WHY

Columbus McKinnon is a global leader in providing expertise and training in the proper use and inspection of rigging and overhead lifting equipment. With a range of comprehensive programs and seminars conducted at venues throughout North America, as well as on site at private companies and industries, Columbus McKinnon courses include:

- Hoist Maintenance
- Rigging
- Load Securement
- Safe Hoisting
- Crane & Hoist Inspection
- Crane Operator Training
- Mobile Crane Operator
- Rigging Gear Inspection

Classes are available at our Niagara Training Center and the state-of-the-art Hoist & Rigging Training Center of Excellence in the Center for Occupational Health and Automobile Manufacturing (COHAM) lab at The Ohio State University. The COHAM lab is a hands-on learning center which allows attendees to understand how to properly use and inspect overhead lifting equipment. This leading edge training program is designed to increase workplace productivity and safety in an ergonomically friendly environment.

In addition to the strong knowledge base exemplified by comprehensive training programs, Columbus McKinnon is one of the only manufacturers supplying complete lifting systems to satisfy unique material handling requirements of users in a variety of environments. From jib cranes and hoists to chain slings, clamps, and related attachments; systems include products that are matched specifically to the lifting needs of the application. Products may also be modified in order to ensure that the proper system is in place for the job.

Whether your needs call for just a single bay Freedom Frame or a completely engineered system to outfit your production facility, Columbus McKinnon provides the products and expertise to keep your workforce productive and safe.

Phone (800) 366.0068 • Fax: (630) 972.0897 • www.abellhowe.com

© 2013 Columbus McKinnon Corporation. All Rights Reserved. Stock #0087-13 1P, 7/13-14

ABELL-HOWE

Abell-Howe has been designing, engineering, manufacturing, and erecting overhead material handling systems for over 95 years. Known for our extensive product line and engineering, Abell-Howe provides both standardized cranes as well as specially designed cranes to meet the ever-changing needs of the global market.

With an emphasis on reliability and safety, our cranes provide robust platforms for attaching hoists and hoists. When used in conjunction with Columbus McKinnon hoists, Abell-Howe cranes are part of a complete lifting system that delivers both in-class and on-the-job training to industries across the world including heavy manufacturing, transportation, power and oil and gas.

Abell-Howe is a proud member of CMAA and is on the committee that establishes standards for overhead cranes and jib cranes.
The Abell-Howe Freedom Frame free-standing modular runway system is ideal for situations where installation of overhead cranes is not practical such as the following:

- Freedoms from existing conditions
- Replacement of overhead crane systems due to development of facility
- Replacement of existing runway systems due to change in operations
- Installation of runway systems in buildings not designed for overhead crane systems
- Replacement of existing runway systems in field.

**Benefits & Features**

**Extensive Capacity Range**
Available in 2, 3, 5, 7-1/2 and 10 ton capacities as standard. Special capacity markings can be provided upon request.

**Free Standing System**

- Suitable for buildings or support structure not required.

**Easy Installation & Dismantling**

- Connections are bolted, not welded, to structure not required.
- Runway length is pre-drilled for bolt connections.
- Connections are bolted, not welded, to structure.

**Standard & Engineered Systems**

- Standard systems consisting of modular runway only. For quick delivery or engineered systems to accommodate any special requirements including the following:
  - Bridge Beams included
  - Top Running Single Girder Plug & Play Frames included
  - Special Control Requirements
  - Special Environments
  - Special Painting

**Flexible Installation & Dismantling**

- Runway supports include optional base plates for securement to concrete slab.
- Runway is pre-drilled for bolt connections.
- Runway can be supplied for use with overhead crane trolley bar.

**Special Environments**

- Available in 2, 3, 5, 7-1/2 and 10 ton capacities
- Systems only for quick delivery or engineered systems to accommodate any special requirements.

**Industrial & Commercial Environments**

- Standard systems consist of modular runway system only. For quick delivery or engineered systems to accommodate any special requirements including the following:
  - Bridge Beams included
  - Top Running Single Girder Plug & Play Frames included
  - Special Control Requirements
  - Special Environments
  - Special Painting

**Runway Specifications**

- Runway is pre-drilled for bolt connections to concrete slab.
- Runway is pre-drilled for bolt connections to structural steel of building.
- Runway supports include optional base plates for securement to concrete slab.
- Runway is pre-drilled for bolt connections.

**Free Standing System**

- Suitable for buildings or support structure not required.
- Runway length is pre-drilled for bolt connections.
- Connections are bolted, not welded, to structure not required.

** Dimensions**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>1 Bay System</th>
<th>2 Bay System</th>
<th>3 Bay System</th>
<th>4 Bay System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width (HCW)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length (O.A.L.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height (H.C.L.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hook Coverage (H1, H2, H3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Table 1: Dimensions for 1, 2, 3 & 4 Bay Systems**

- **Hook Coverage**
  - **H1:** 3'-8" for all capacities and widths
  - **H2:** 4'-8" for 2, 3 & 4 bay systems
  - **H3:** 5'-0" for 2, 3 & 4 bay systems

**Table 2: Width Dimensions for 1, 2, 3 & 4 Bay Systems**

- **Width (HCW):**
  - 11'-8" for 1 bay system
  - 21'-8" for 2 bay system
  - 31'-8" for 3 bay system
  - 41'-8" for 4 bay system

**Table 3: Length Dimensions for 1, 2, 3 & 4 Bay Systems**

- **Length (O.A.L.):**
  - 10'-9" for 1 bay system
  - 20'-9" for 2 bay system
  - 30'-9" for 3 bay system
  - 40'-9" for 4 bay system

**Table 4: Height Dimensions for 1, 2, 3 & 4 Bay Systems**

- **Height (H.C.L.):**
  - 10'-0" for 1 bay system
  - 20'-0" for 2 bay system
  - 30'-0" for 3 bay system
  - 40'-0" for 4 bay system

**Table 5: Hook Coverage Dimensions for 1, 2, 3 & 4 Bay Systems**

- **Hook Coverage (H1, H2, H3):**
  - **H1:** 3'-8" for all capacities and widths
  - **H2:** 4'-8" for 2, 3 & 4 bay systems
  - **H3:** 5'-0" for 2, 3 & 4 bay systems

**Table 6: System O.A.H. Dimensions**

- **System O.A.H.:**
  - System 1, 2, 3 & 4 bay systems
  - System overall dimension
  - System overall height
  - System overall width

**Table 7: System O.A.W. Dimensions**

- **System O.A.W.:**
  - System overall dimension
  - System overall width
  - System overall height