



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 points for attaching trolleys and hoists. When used in conjunction with Columbus McKinnon hoists, trolleys, and below-the-hook attachments, Abell-Howe cranes are part of a complete lifting system that delivers best-in-class performance to industries around 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.



## COMPLETE YOUR SYSTEM

With a single girder plug & play crane kit from Yale® Shaw-Box®, the premier names in cranes and hoists.

These economical kits can significantly reduce the build-time and enable all crane builders to quickly and easily produce a wide variety of cranes. These kits permit the builder to consolidate all requirements to a few purchase orders, therefore reducing administrative time and costs.






COLUMBUS McKINNON CORPORATION

**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
- Load Securement
- Crane & Hoist Inspection
- Mobile Crane Operator
- Rigging
- Safe Hoisting
- Crane Operator Training
- 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 a 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.



COLUMBUS McKINNON CORPORATION

FAMILY OF BRANDS

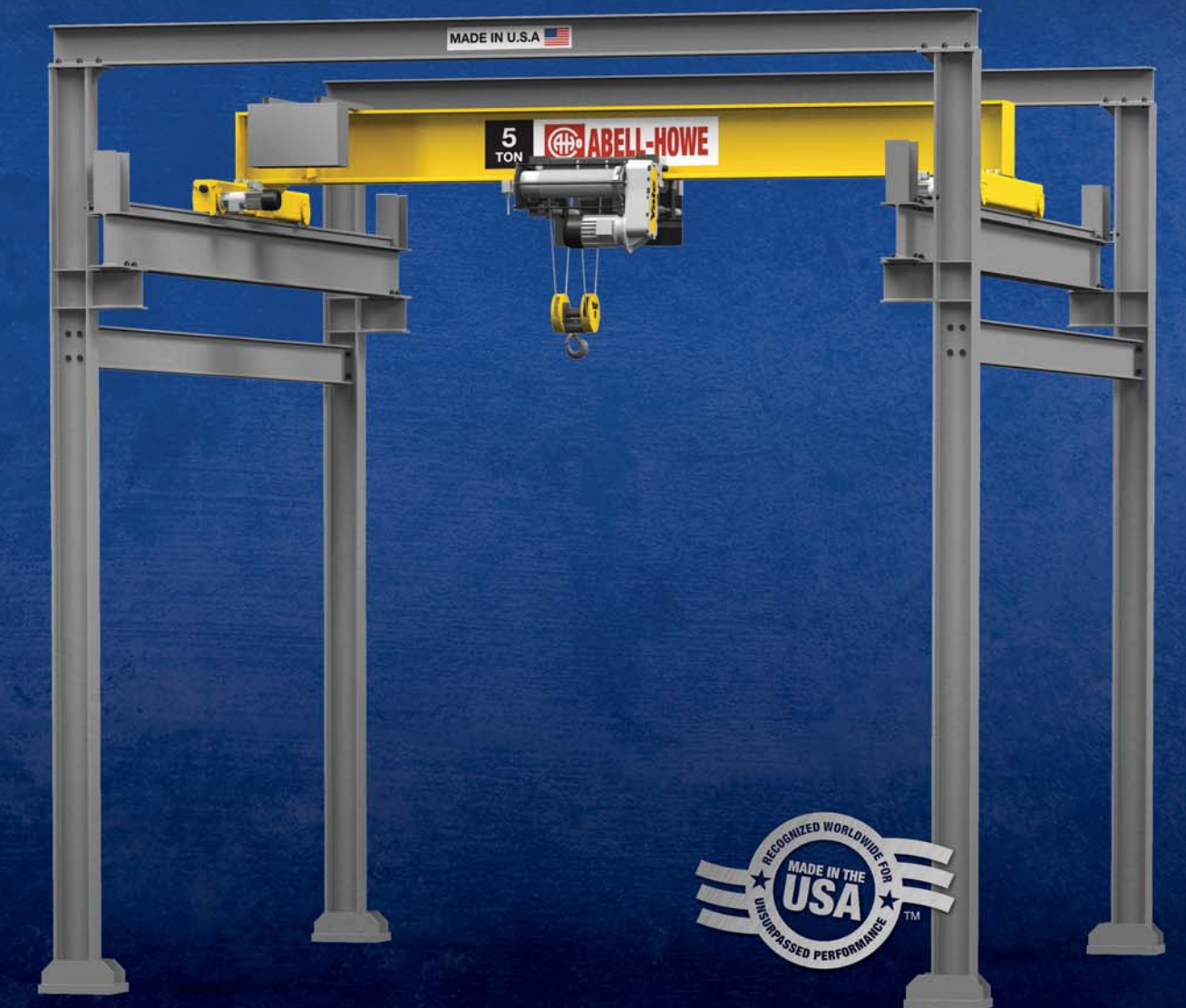


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# FREEDOM FRAME™

**FREE-STANDING MODULAR RUNWAY SYSTEM**





# FREEDOM FRAME

## FREE-STANDING MODULAR RUNWAY SYSTEM

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:

**BUILDINGS NOT DESIGNED FOR OVERHEAD CRANES**  
Structural steel of building is not intended to or cannot support required loads.

**LEASED BUILDINGS**  
Construction of Freedom Frame allows for easy installation and dismantling for movement to another location.

**PRECAST CONCRETE BUILDINGS**  
Runway supports include base plates for securement to concrete slab.

### BENEFITS & FEATURES

**EXTENSIVE CAPACITY RANGE**  
Available in 2, 3, 5, 7-1/2 and 10 ton capacities as standard to meet a wide range of requirements. Special capacity markings can be provided on non-standard systems.

**FREE STANDING SYSTEM**  
Tie off to building column or support structure not required.

**EASY INSTALLATION & DISMANTLING**  
Connections are bolted, not welded, to allow for easy installation and dismantling for movement to another location.

**1, 2, 3 OR 4 BAY SYSTEMS**  
Multiple bays can be provided for long runway requirements. Additional bays can be added to existing systems in field.

**STANDARD & ENGINEERED SYSTEMS**  
Standard systems consisting of modular runway systems only for quick delivery or engineered systems to accommodate any special requirements including the following:

- Bridge Beams included
- Top-Running Singer Girder Plug & Play Crane included
- Special Control Requirements
- Special Environments
- Special Painting



**1** Available in standard runway lengths of 20, 25 & 30 ft. Multiple bays can be combined to meet longer runway requirements.

**2** Completed system with Yale single girder crane kit.

**3** Available for bridge spans up to approximate 40 ft. Bridge beam can be supplied upon request.

**4** Runway supports include stiffened base plates for securement to concrete. System up to 5 tons requires no footings. Minimum 6" concrete depth with 3000 psf soil pressure.

7-1/2 & 10 ton systems may require footings. Contact Abell-Howe for size.

Anchors bolts supplied upon request after determination of concrete floor properties.

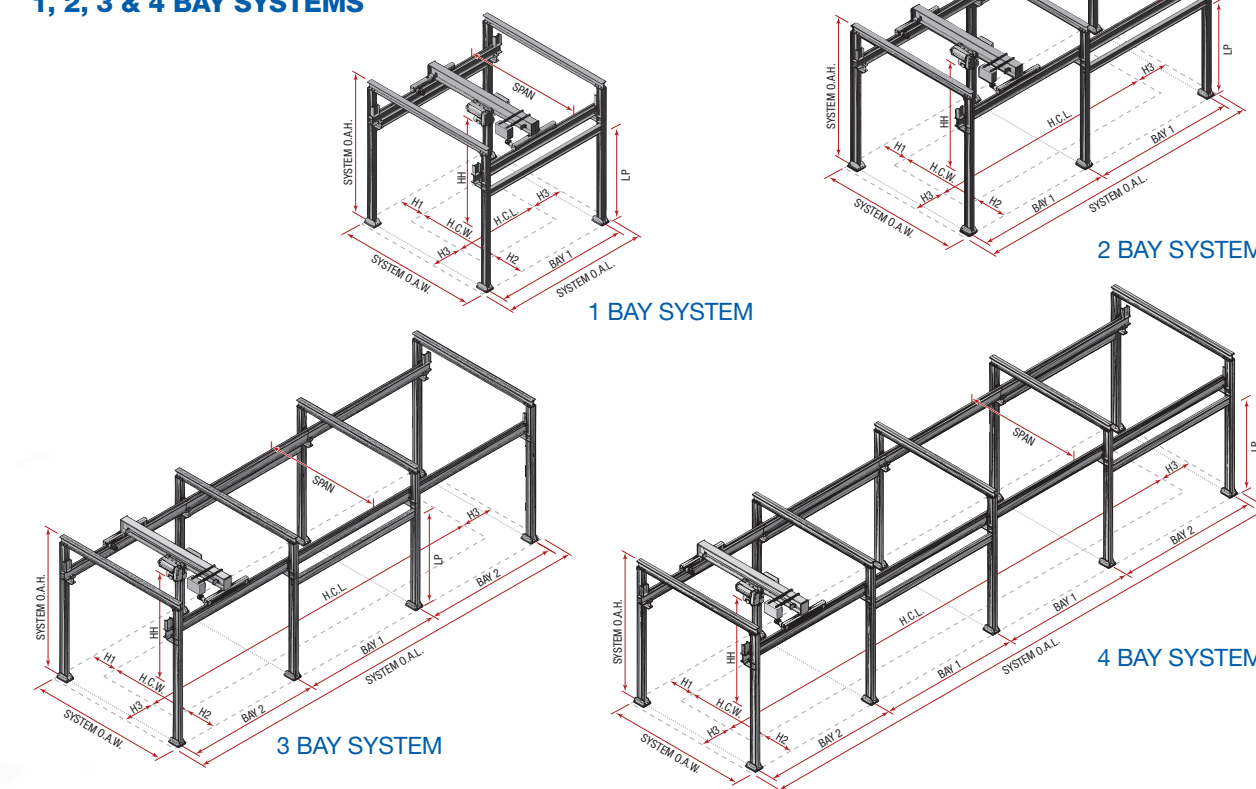
**5** Runway Electrification is V-contact style bar.

Runway is pre-drilled for bolt on support brackets.

Conductor bar easily installed in the field.

Includes 4 tandem collectors and 1 universal tow arm collector bracket.

### DIMENSIONS 1, 2, 3 & 4 BAY SYSTEMS



### WIDTH DIMENSIONS FOR 1, 2, 3 & 4 BAY SYSTEMS

| DIMENSION                     | CAPACITY |        |        |        |        |        |            |        |         |        |        |        |
|-------------------------------|----------|--------|--------|--------|--------|--------|------------|--------|---------|--------|--------|--------|
|                               | 2 TONS   |        | 3 TONS |        | 5 TONS |        | 7-1/2 TONS |        | 10 TONS |        |        |        |
| SYSTEM OVERALL WIDTH (O.A.W.) | 20'-0"   | 30'-0" | 40'-0" | 20'-0" | 30'-0" | 40'-0" | 20'-0"     | 30'-0" | 40'-0"  | 20'-0" | 30'-0" | 40'-0" |
| CRANE SPAN                    | 16'-8"   | 26'-8" | 36'-8" | 16'-8" | 26'-8" | 36'-8" | 16'-8"     | 26'-8" | 36'-8"  | 16'-0" | 26'-0" | 36'-0" |
| HOOK COVERAGE WIDTH (HCW)*    | 11'-8"   | 21'-8" | 31'-8" | 11'-8" | 21'-8" | 31'-8" | 11'-8"     | 21'-8" | 31'-8"  | 10'-9" | 20'-9" | 30'-9" |
| H1*                           | 3'-8"    | 3'-8"  | 3'-8"  | 3'-8"  | 3'-8"  | 3'-8"  | 3'-8"      | 3'-8"  | 3'-8"   | 4'-3"  | 4'-3"  | 4'-3"  |
| H2*                           | 4'-8"    | 4'-8"  | 4'-8"  | 4'-8"  | 4'-8"  | 4'-8"  | 4'-8"      | 4'-8"  | 4'-8"   | 5'-0"  | 5'-0"  | 5'-0"  |

### LENGTH DIMENSIONS FOR ALL CAPACITIES AND WIDTHS

| OVERALL LENGTH (O.A.L.) | 1 BAY SYSTEM |       | 2 BAY SYSTEM            |        | 3 BAY SYSTEM |                         | 4 BAY SYSTEM |        |
|-------------------------|--------------|-------|-------------------------|--------|--------------|-------------------------|--------------|--------|
|                         | BAY 1        | BAY 2 | OVERALL LENGTH (O.A.L.) | BAY 1  | BAY 2        | OVERALL LENGTH (O.A.L.) | BAY 1        | BAY 2  |
| 20'-0"                  | 18'-0"       | -     | 40'-0"                  | 19'-0" | -            | 60'-0"                  | 20'-0"       | 19'-0" |
| 25'-0"                  | 23'-0"       | -     | 50'-0"                  | 24'-0" | -            | 75'-0"                  | 25'-0"       | 24'-0" |
| 30'-0"                  | 28'-0"       | -     | 60'-0"                  | 29'-0" | -            | 90'-0"                  | 30'-0"       | 29'-0" |

### HEIGHT DIMENSIONS FOR 1, 2, 3 & 4 BAY SYSTEMS

| DIMENSION            | CAPACITY |        |        |        |        |        |            |        |         |        |
|----------------------|----------|--------|--------|--------|--------|--------|------------|--------|---------|--------|
|                      | 2 TONS   |        | 3 TONS |        | 5 TONS |        | 7-1/2 TONS |        | 10 TONS |        |
| HOOK HEIGHT (HH)*    | 15'-7"   | 20'-7" | 15'-7" | 20'-7" | 15'-7" | 20'-7" | 14'-0"     | 19'-0" | 14'-0"  | 19'-0" |
| FRAME LOW POINT (LP) | 13'-0"   | 18'-0" | 13'-0" | 18'-0" | 13'-0" | 18'-0" | 11'-5"     | 16'-5" | 11'-5"  | 16'-5" |

### HOOK COVERAGE LENGTH DIMENSIONS

| OVERALL LENGTH (O.A.L.) | 2 & 3 TONS                  |       |       | 5, 7-1/2 & 10 TONS      |                             |       |
|-------------------------|-----------------------------|-------|-------|-------------------------|-----------------------------|-------|
|                         | HOOK COVERAGE LENGTH (HCL)* | H3*   | H3*   | OVERALL LENGTH (O.A.L.) | HOOK COVERAGE LENGTH (HCL)* | H3*   |
| 20'-0"                  | 12'-0"                      | 4'-0" | 4'-0" | 20'-0"                  | 9'-0"                       | 5'-6" |
| 25'-0"                  | 17'-0"                      | 4'-0" | 4'-0" | 25'-0"                  | 14'-0"                      | 5'-6" |
| 30'-0"                  | 22'-0"                      | 4'-0" | 4'-0" | 30'-0"                  | 19'-0"                      | 5'-6" |
| 40'-0"                  | 32'-0"                      | 4'-0" | 4'-0" | 40'-0"                  | 29'-0"                      | 5'-6" |
| 50'-0"                  | 42'-0"                      | 4'-0" | 4'-0" | 50'-0"                  | 39'-0"                      | 5'-6" |
| 60'-0"                  | 52'-0"                      | 4'-0" | 4'-0" | 60'-0"                  | 49'-0"                      | 5'-6" |
| 75'-0"                  | 67'-0"                      | 4'-0" | 4'-0" | 75'-0"                  | 64'-0"                      | 5'-6" |
| 80'-0"                  | 72'-0"                      | 4'-0" | 4'-0" | 80'-0"                  | 69'-0"                      | 5'-6" |
| 90'-0"                  | 82'-0"                      | 4'-0" | 4'-0" | 90'-0"                  | 79'-0"                      | 5'-6" |
| 100'-0"                 | 92'-0"                      | 4'-0" | 4'-0" | 100'-0"                 | 89'-0"                      | 5'-6" |
| 120'-0"                 | 112'-0"                     | 4'-0" | 4'-0" | 120'-0"                 | 109'-0"                     | 5'-6" |

\*Dimensions are approximate and are based on Global King Crane Kits.

Maximum crane height is the dimension from top of the ASCE rail to the top of the crane and still leaves 3" clear between the frame and the crane.

The overall width, overall length, and overall height are maximum dimensions. It is the responsibility of the customer to provide proper clearances to existing conditions.



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