# **WORKSTATION BRIDGE CRANES**

KIT FORM CRANES MANUFACTURED TO YOUR SPECIFICATION



FREE STANDING & CEILING MOUNTED
CAPACITIES UP TO 6000 LBS
SPANS UP TO 36'
www.mettrack.com



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## WORKSTATION CRANES INTRODUCTION



#### WORKSTATION CRANES

#### SIMPLY EFFORTLESS!

**MET-TRACK®** Workstation Bridge Cranes enable you to achieve effortless and reliable area-serving overhead handling for a wide variety of applications. Each system is configured with the operator in mind and includes the principle feature of ease of movement, designed to reduce fatigue and ensure accurate load positioning.

Our range include both ceiling and floor mounted workstation bridge cranes, monorails and jib cranes.

Quality materials and construction ensure operational reliability and safety and facilitate long life combined with minimum maintenance.

#### SPECIAL DESIGNED SOLUTIONS

As a supplier of major materials handling projects worldwide, we are well experienced in dealing with turnkey installations where standard cranes are not considered ideal. We believe that providing the customer with all the required systems configured exactly to their needs is essential to ensure the installed project is 'fit for purpose'. If you have a materials handling project and would like to take advantage of our experience then simply contact your dealer for further information.

#### SYSTEM FEATURES

- Loads up to 6000lbs
- Bridge lengths up to 36'
- Runway supports up to 30'
- Ceiling & Floor Mount Options
- Modular Design
- Simple to install and extend
- Low cost
- Mixed capacity systems
- Motorized tractor units
- Telescopic bridges
- · Cantilever bridges
- Track transfer units

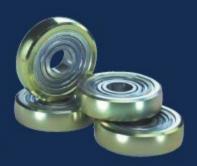
### **FEATURES**



### ENCLOSED TRACK PROFILES MAKE FOR AN ERGONOMIC DESIGN

The MET-TRACK® steel track design is one of high strength and low weight by combining the running track profile with standoff reinforcement to considerably increase span distances. The 'V' shaped profile of the running track ensures alignment of the trolleys and end truck and prevent dirt accumulation inside the tracks.

Machined wheels with crowned tread and precision sealed bearings fitted ensure absolute minimum rolling resistance and provide long operational life.



#### SYSTEM FEATURES:

- Four running track profiles to select from 400, 500, 600 and 700 Series
- Long spans of up to 30' allow systems to be installed with the minimum of supports, maximizing the work cell layout
- Enclosed track bridge cranes are up to three times easier to move than traditional bridge cranes

#### SIMPLE INSTALLATION AND MODULAR DESIGN

The **MET-TRACK**\* pre-engineered modular design allows for easy relocation and/or expansion by simply adding runway sections and/or additional bridges.

Splice joints connect the track sections and are complete with vertical and horizontal adjustment screws, facilitating precise alignment of the track sections.

Floor mounted cranes can be installed on any normal 6" reinforced concrete floor. Support columns are designed to AISC specifications. If no movement of the support assembly is preferred then we recommend the use of bracing (not included). For further details contact your dealer.

For ceiling mounted cranes it is imperative that you seek professional advice on whether your building structure is capable of withstanding the forces generated by the workstation crane. A data sheet giving details on the applied forces relative to a crane system is available please contact your dealer for further information.



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## WORKSTATION CRANES THE PROFILES



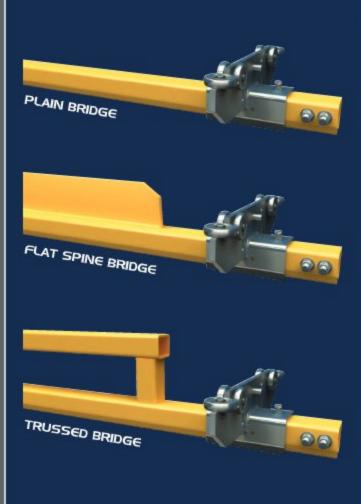




#### **RUNWAY PROFILES**

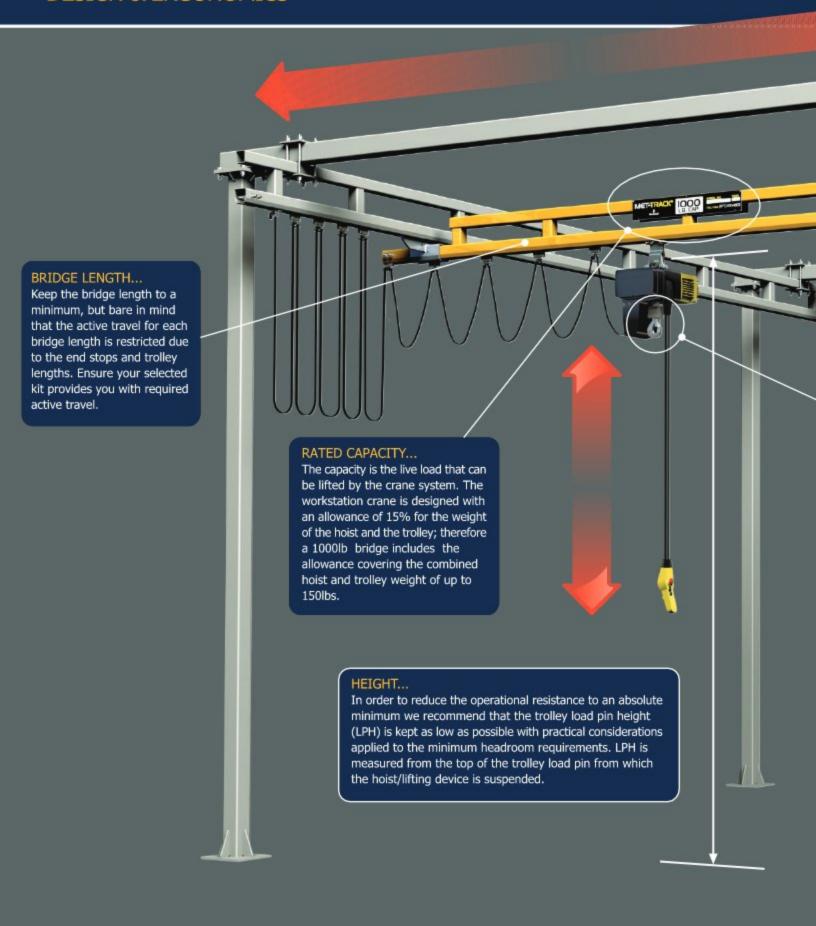
| Capacity<br>(lbs) | Profile | Spine<br>Style | Maximum<br>Span<br>(ft) | Running<br>Track | Height<br>x Width<br>(ins) | Weight<br>(lbs/ft) |
|-------------------|---------|----------------|-------------------------|------------------|----------------------------|--------------------|
|                   | 400M    | Plain          | 6                       | 400              | 13/4×2                     | 2.40               |
| 250               | CIAB420 | Trussed        | 20                      | 400              | 9 1/4 x 2                  | 5.15               |
| 250               | CIAB425 | Trussed        | 25                      | 400              | 11 1/4 x 2                 | 5.35               |
|                   | CIAB430 | Trussed        | 30                      | 400              | 13 1/4 x 2                 | 5.53               |
|                   | 500M    | Plain          | 6                       | 500              | 2 3/8 x 2 1/2              | 3.80               |
| 500               | CIAB520 | Trussed        | 20                      | 500              | 9 3/8 x 2 1/2              | 8.20               |
| 500               | CIAB525 | Trussed        | 25                      | 500              | 12 3/8 x 2 1/2             | 8.55               |
|                   | CIAB530 | Trussed        | 30                      | 500              | 14 3/8 x 2 1/2             | 8.70               |
|                   | 600M    | Plain          | 6                       | 600              | 3 x 3 1/8                  | 5.90               |
| 4000              | CIAB620 | Trussed        | 20                      | 600              | 10 1/2 x 3 1/8             | 12.15              |
| 1000              | CIAB625 | Trussed        | 25                      | 600              | 13 1/2 x 3 1/8             | 12.60              |
|                   | CIAB630 | Trussed        | 30                      | 600              | 16 1/2 x 3 1/8             | 12.95              |
|                   | 700M    | Plain          | 6                       | 700              | 4 3/8 x 3 1/2              | 11.10              |
| 2000              | CIAB720 | Trussed        | 20                      | 700              | 14 3/8 x 3 1/2             | 21.90              |
| 2000              | CIAB725 | Trussed        | 25                      | 700              | 15 3/8 x 3 1/2             | 22.20              |
|                   | CIAB730 | Trussed        | 30                      | 700              | 19 3/8 x 3 1/2             | 23.10              |
| 4000              | CIAB820 | Trussed        | 20                      | 700              | 18 7/8 x 3 1/2             | 25.70              |
| 4000              | CIAB825 | Trussed        | 25                      | 700              | 19 7/8 x 3 1/2             | 26.05              |
|                   | CIAB830 | Trussed        | 30                      | 700              | 23 22/84 x 3 1/2           | 26.75              |



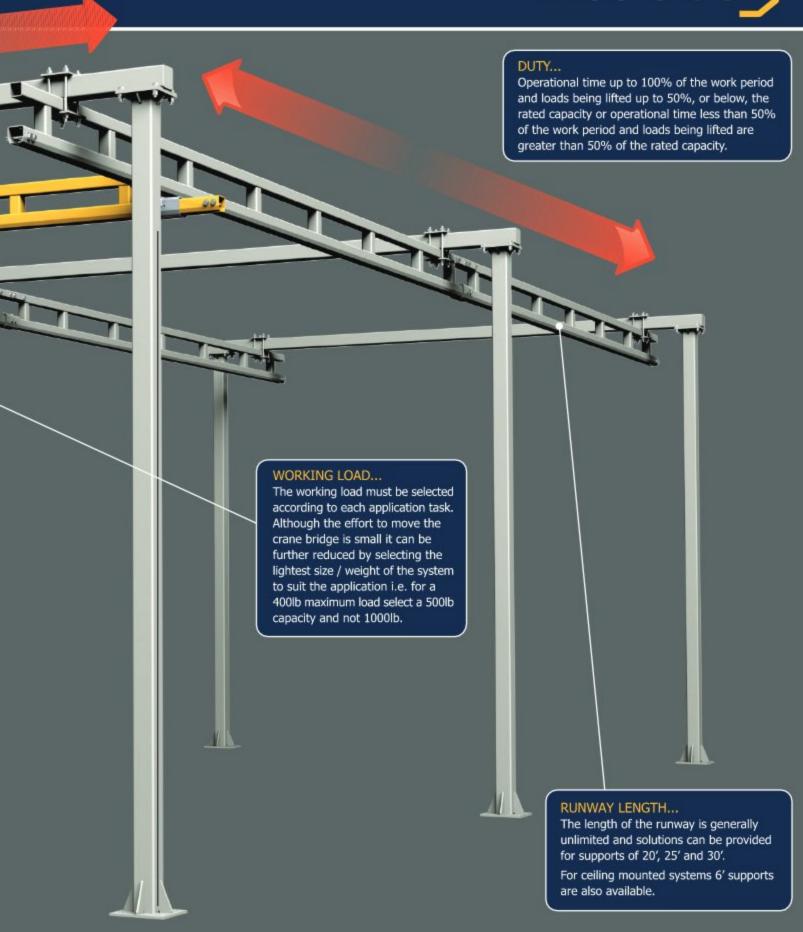


| Capacity<br>(lbs) | Profile | Profile    | Max<br>CBL<br>(ft) | Running<br>Track | Height<br>x Width<br>(ins) | Weight<br>(lbs/ft) |
|-------------------|---------|------------|--------------------|------------------|----------------------------|--------------------|
|                   | 400M    | Plain      | 6                  | 400              | 134×2                      | 2.40               |
|                   | 400€    | Flat Spine | 10                 | 400              | 4 7/32 X 2                 | 6.50               |
|                   | BR401   | Trussed    | 15                 | 400              | 6 3/4 x 2                  | 4.40               |
| 250               | BR402   | Trussed    | 20                 | 400              | 8 1/4 x 2                  | 4.70               |
|                   | BR403   | Trussed    | 23                 | 400              | 9 1/4 x 2                  | 4.85               |
|                   | BR404   | Trussed    | 28                 | 400              | 11 1/4 x 2                 | 6.20               |
|                   | BR405   | Trussed    | 34                 | 400              | 13 1/8 x 2                 | 6.51               |
|                   | 500M    | Plain      | 6                  | 500              | 2 3/8 x 2 1/2              | 3.80               |
| ,                 | 500F    | Flat Spine | 10                 | 500              | 4 7/8 x 2 1/2              | 7.95               |
|                   | BR501   | Trussed    | 15                 | 500              | 8 3/8 x 2 1/2              | 7.25               |
| 500               | BR502   | Trussed    | 20                 | 500              | 9 7/8 x 2 1/2              | 7.60               |
| 300               | BR503   | Trussed    | 23                 | 500              | 10 7/8 x 2 1/2             | 7.80               |
|                   |         | 500        | 10 7/8 x 2 1/2     | 8.10             |                            |                    |
|                   | BR505   | Trussed    | 34                 | 500              | 13 3/8 x 2 1/2             | 9.85               |
|                   | 600M    | Plain      | 6                  | 600              | 3 x 3 1/8                  | 5.90               |
|                   | 600F    | Flat Spine | 10                 | 600              | 7 1/2 x 3 1/8              | 10.10              |
|                   | BR601   | Trussed    | 15                 | 600              | 9 x 3 1/B                  | 10.75              |
| 1000              | BR602   | Trussed    | 20                 | 600              | 10 1/2 x 3 1/8             | 11.30              |
| 1000              | BR603   | Trussed    | 23                 | 600              | 11 1/2 x 3 1/8             | 11.55              |
|                   | BR604   | Trussed    | 28                 | 600              | 14 x 3 1/8                 | 12.00              |
| 1                 | BR605   | Trussed    | 34                 | 600              | 16 x 3 1/8                 | 16.00              |
|                   | 700M    | Plain      | 6                  | 700              | 4 3/8 x 3 1/2              | 11.10              |
|                   | 700F    | Flat Spine | 10                 | 700              | 8 7/8 x 3 1/2              | 15,40              |
| 2000              | BR701   | Trussed    | 15                 | 700              | 10 7/8 x 3 1/2             | 19.60              |
| 2000              | BR702   | Trussed    | 20                 | 700              | 12 3/8 x 3 1/2             | 20.50              |
|                   | BR703   | Trussed    | 23                 | 700              | 13 3/8 x 3 1/2             | 20.95              |
|                   | BR704   | Trussed    | 28                 | 700              | 15 3/8 x 3 1/2             | 21.75              |
|                   | BR705   | Trussed    | 34                 | 700              | 17 3/8 x 3 1/2             | 22.45              |
|                   | BR801   | Trussed    | 15                 | 700              | 11 7/8 x 3 1/2             | 21.40              |
| 17,000,000        | BR802   | Trussed    | 20                 | 700              | 15 7/8 x 3 1/2             | 23.30              |
| 4000              | BR803   | Trussed    | 23                 | 700              | 15 7/8 x 3 1/2             | 23.50              |
|                   | BR804   | Trussed    | 28                 | 700              | 20 3/8 x 3 1/2             | 26.60              |
|                   | BR805   | Trussed    | 34                 | 700              | 21 22/84 x 3 1/2           | 27.60              |

### **DESIGN & ERGONOMICS**







## WORKSTATION CRANES TYPICAL CRANES

#### CONFIGURATIONS



The **MET-TRACK**<sup>6</sup> crane system consists of bridges, runways, runway joint kits, end trucks, hoist trolleys and end bolts. These basic components can then be supported by standard floor mounted structures, ceiling mounted assemblies or special arrangements according to the application requirements. In addition it is possible to add either festoons or conductor systems to enable powerfeed for the chosen lifting device.





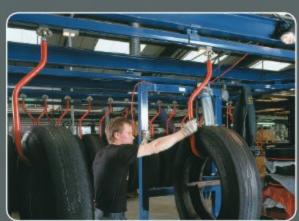
simpler and does not apply stresses to the building roof structure.

Ceiling mounted systems are ideal when floor space is limited or where floor support steelwork would normally cause an obstruction for other equipment.



#### MONORAIL SYSTEMS

Using the same profiles as the crane runways we also have available a complete range of monorail capacities. We can offer either a single line configured monorail or one with curves, switches and turntables to form a closed loop facility for such as paint lines etc. Again these can either be floor or ceiling mount.



### HANGER ASSEMBLIES





- Flush mount hanger assemblies
- Adjustment both laterally and longitudinally



DROP ROD - Plain / Trussed Runway Parallel or Perpendicular 20" or 72"





FLUSH MOUNT
- Plain Runway Parallel or Perpendicular

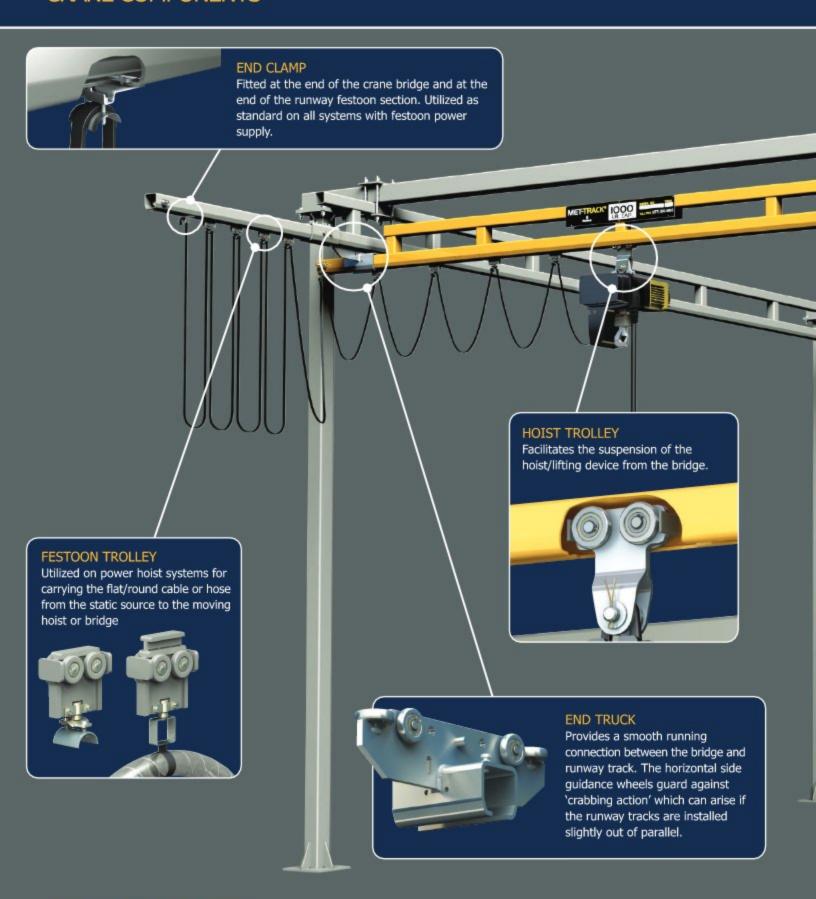


Parallel or Perpendicular

#### SWAY BRACING

Ceiling mounted kits require sway bracing in all circumstances except where the runway is flush mounted to the support steelwork. Sway bracing kits are available, please refer to your dealer.

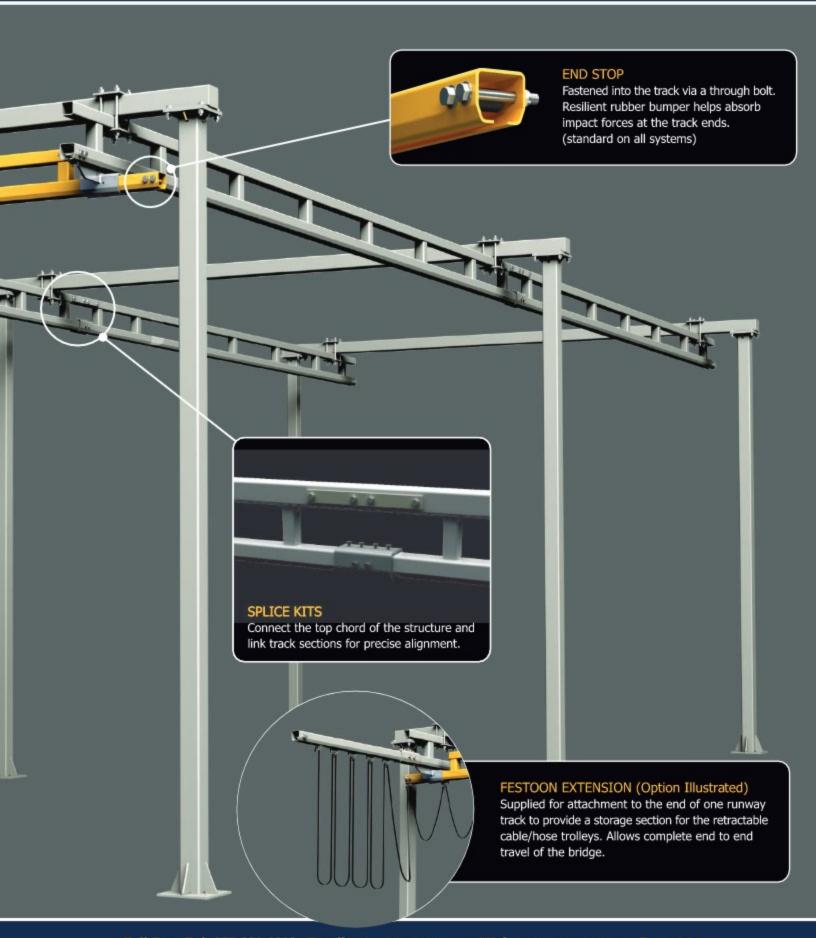
### **CRANE COMPONENTS**



OPTIONAL CONDUCTOR SYSTEM - PLEASE SEE PAGE 12

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## WORKSTATION CRANES OPTIONAL FEATURES

#### RUNWAY & BRIDGE CONDUCTOR SYSTEMS

The principle of a workstation bridge crane is to make the work of a user easier by designing the system to move freely. When power is required to the lifting device, traditional festoon systems can provide this function. However, in certain scenarios where festoons may not be ideal for the application due the need to maximize bridge or trolley travel or needing to eliminate the cable loops for maximum under clearance, an upgrade option is the **MET-TRACK**<sup>®</sup> enclosed conductor system, 4Ductor. 4Ductor can be fitted to the runway and/or bridge if festoon loops or trolley/bridge travel would pose a problem. This simple to add system offers no resistance to the easy movement of a workstation crane.

#### FEATURES OF 4DUCTOR:

- Continuous Copper Conductors
- Range of Standard Capacities
- Minimum Brush Wear
- Simple to Install & Maintain

| Conductor Capacity | up to 4        |
|--------------------|----------------|
| Current Capacities | 50, 80, 125A   |
| Protection:        | IP65           |
| Housing Lengths:   | 6.5ft and 13ft |
| Temperature Range: | -30°C to +60°C |
| Maximum Speed:     | 200ft/min      |

#### BRIDGE TRAVEL WITH 4-DUCTOR® COMPARED TO FESTOON SYSTEM

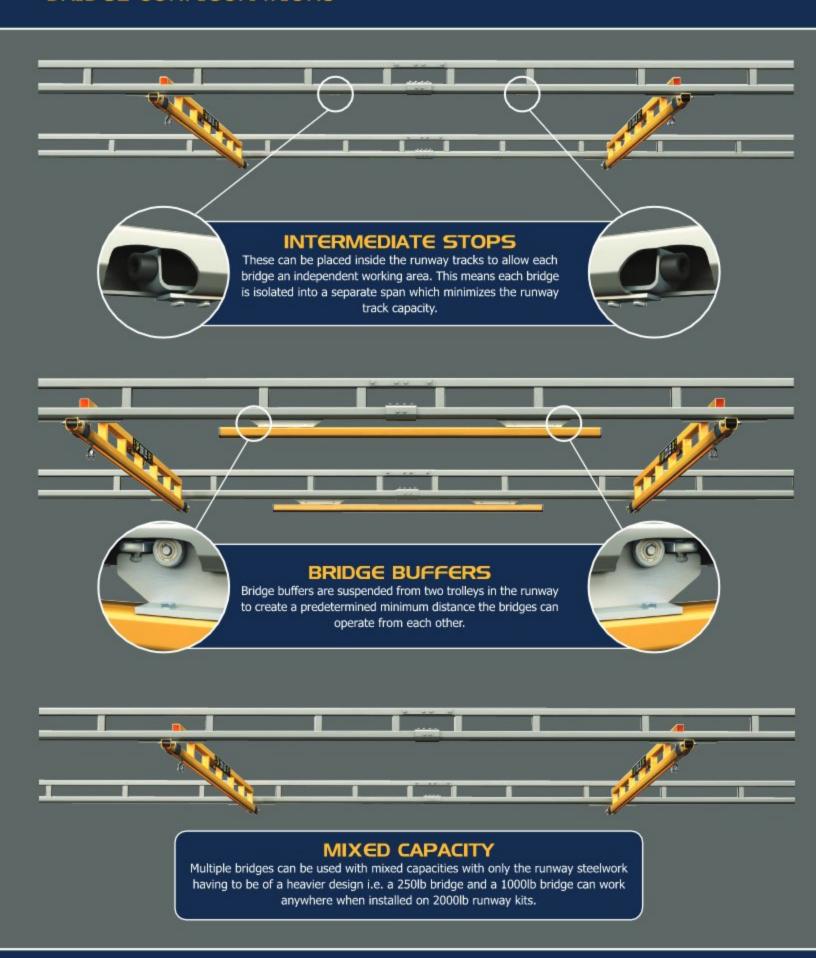






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## WORKSTATION CRANES BRIDGE CONFIGURATIONS



## WORKSTATION CRANES OPTIONS



A standard range of tractor drives are available for applications where powered traveling of the crane bridge and/or hoist trolley is required.



Designed to provide a safe, efficient, and easy to operate transfer of a hoist trolley from the bridge to an adjacent bridge or monorail system.





## WORKSTATION CRANES INQUIRY FORM



Please fill out the various dimensional data options below to help us with your quotation.

| MOUNTING ORIENTATION   |
|--|
| Floor Mounted Crane System Ceiling Mounted Crane System  |
|  |
| BRIDGE CONFIGURATION   |
| Bridge Length (Max 34')   feet   inches OR Room Width   feet   inches                                |
| Bridge Capacity: Choose 250 / 500 / 1000 / 2000 or 4000 lbs  |
| Bridge #1   Ibs, Bridge #2   Ibs, Bridge #2   Ibs, Bridge #2   Ibs, Bridge #2   Ibs                  |
|  |
| 3  |
| RUNWAY CONFIGURATION   |
| Standard Runway Configuration:   |
| Bridge #1   lbs, Options: 250 / 500 / 1000 / 2000 / 4000 lbs   |
| Runway Length: feet inches OR Room length: feet inches   |
| Cantilever Options: 18 / 24 / 30 / 36 / 42 / 48" Front inches Back inches                            |
| Special Runway Configuration:  |
| Bridge #1   Ibs, Bridge #2   Ibs |
| Cantilever Options: 18 / 24 / 30 / 36 / 42 / 48" Front inches Back inches                            |
| 4  |
| SUPPORT STEEL WORK - FLOOR MOUNTED SYSTEMS   |
| Load Pin Height (LPH): feet inches (Max 20') OR  |
| Overall System Height: feet inches (Max 22')   |
|  |
| 5  |
| SUPPORT STEEL WORK - CEILING MOUNTED SYSTEMS   |
| Bracket Type Options: Flush Mount 2' Dropper 6' Dropper Bar Joist Bar Joist Angle Size               |
| Sway Bracing - Recommended on all drop systems: Yes No   |
|  |
| 6 POWERFEED  |
| None:  |
| Electric Festoon: Bridge Runway  |
| Air Festoon: Bridge Runway Air Festoon Hose Diameter:  |
| Conductor: Bridge Runway   |
| Condition, Single Manney   |
| 7  |
| POWERED DRIVES   |
| No:  |
| Yes: If Yes, the sales office will send you a spec sheet to select your powered drive requirements   |
|  |

