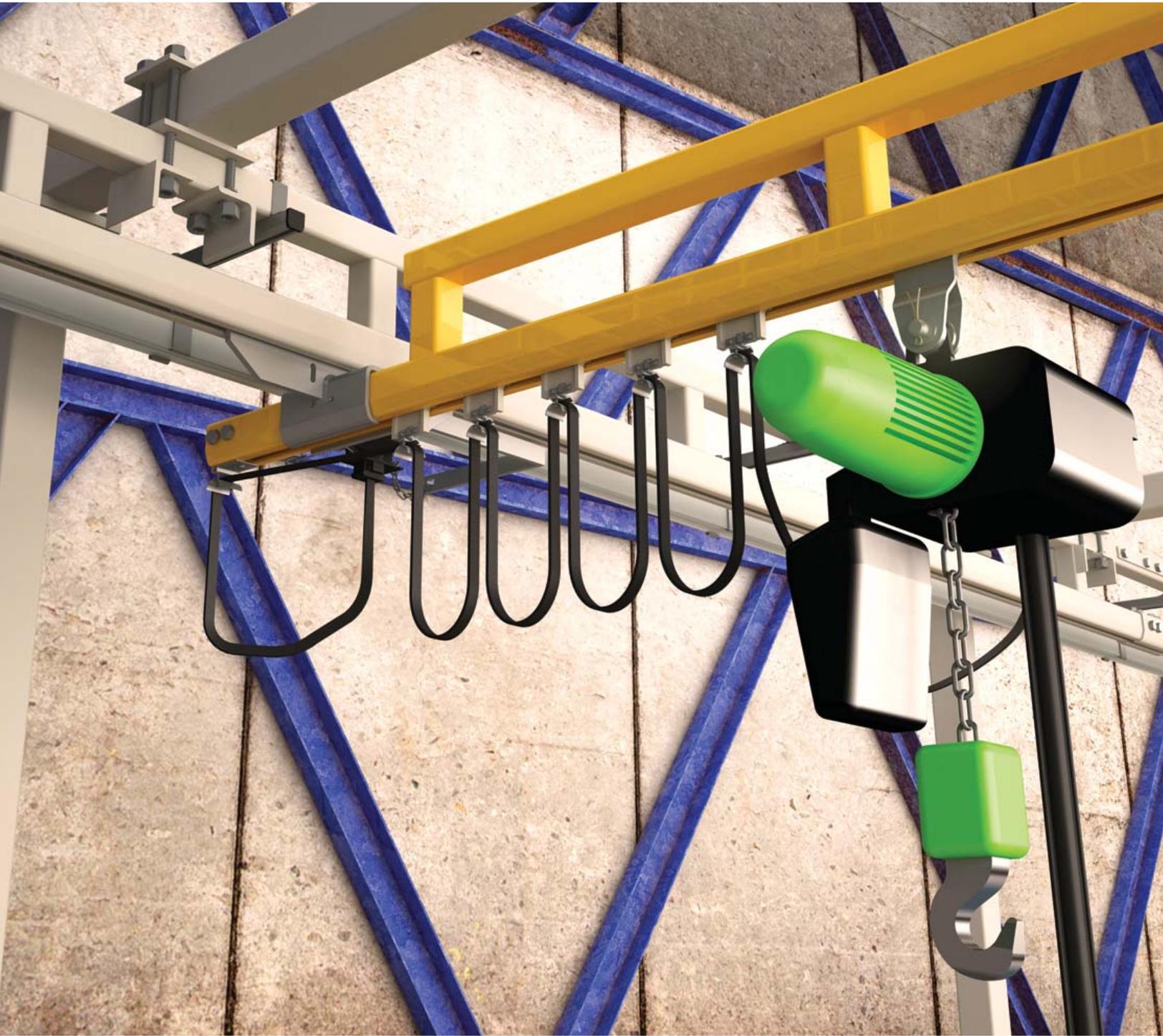


WORKSTATION BRIDGE CRANES

KIT FORM CRANES MANUFACTURED TO YOUR SPECIFICATION



FREE STANDING & CEILING MOUNTED

CAPACITIES UP TO 4000 LBS

SPANS UP TO 30'

www.metreel.com

MET-TRACK[®]



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 4000lbs
- Bridge lengths up to 34'
- Runway supports up to 30'
- Kit form
- Low cost
- Simple to install and extend
- Large range of mounting options
- Mixed capacity systems
- Bridge buffers
- Telescopic bridges
- Cantilever bridges
- Motorized tractor units
- Track transfer units

WORKSTATION CRANES

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 allow systems to be installed with the minimum of supports, maximizing the work cell layout
- Enclosed track cranes are up to three times easier to move than traditional bridge cranes
- Small sized profiles for bridges, runways and headers allow systems to be installed where headroom is a problem

EASY 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.



RUNWAY PROFILES



PLAIN RUNWAY



TRUSSED RUNWAY

Capacity (lbs)	Profile	Spine Style	Maximum Span (ft)	Running Track	UDL Load (lbs/ft)	Height x Width (ins)	Weight (lbs/ft)
250	400M	Plain	6	400	40	1 3/4 x 2	2.40
	CIAB420	Trussed	20	400	45	9 1/4 x 2	5.15
	CIAB425	Trussed	25	400	34	11 1/4 x 2	5.35
500	500M	Plain	6	500	130	2 3/8 x 2 1/2	3.80
	CIAB520	Trussed	20	500	86	9 3/8 x 2 1/2	8.20
	CIAB525	Trussed	25	500	73	12 3/8 x 2 1/2	8.55
	CIAB530	Trussed	30	500	66	14 3/8 x 2 1/2	8.70
1000	600M	Plain	6	600	300	3 x 3 1/8	5.90
	CIAB620	Trussed	20	600	162	10 1/2 x 3 1/8	12.15
	CIAB625	Trussed	25	600	145	13 1/2 x 3 1/8	12.60
	CIAB630	Trussed	30	600	116	16 1/2 x 3 1/8	12.95
2000	700M	Plain	6	700	870	4 3/8 x 3 1/2	11.10
	CIAB720	Trussed	20	700	428	14 3/8 x 3 1/2	21.90
	CIAB725	Trussed	25	700	272	15 3/8 x 3 1/2	22.20
	CIAB730	Trussed	30	700	253	19 3/8 x 3 1/2	23.10
4000	CIAB820	Trussed	20	700	881	18 7/8 x 3 1/2	25.70
	CIAB825	Trussed	25	700	570	19 7/8 x 3 1/2	26.05
	CIAB825	Trussed	30	700	Enquire	20 7/8 x 3 1/2	26.75

BRIDGE PROFILES



PLAIN BRIDGE



FLAT SPINE BRIDGE



TRUSSED BRIDGE

Capacity (lbs)	Profile	Profile	Max CBL (ft)	Running Track	Height x Width (ins)	Weight (lbs/ft)
250	400M	Plain	6	400	1 3/4 x 2	2.40
	400F	Flat Spine	10	400	6 1/4 x 2	6.50
	BR401	Trussed	15	400	6 3/4 x 2	4.40
	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
500	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
	BR502	Trussed	20	500	9 7/8 x 2 1/2	7.60
	BR503	Trussed	23	500	10 7/8 x 2 1/2	7.80
	BR504	Trussed	28	500	10 7/8 x 2 1/2	8.10
1000	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 1/8	10.75
	BR602	Trussed	20	600	10 1/2 x 3 1/8	11.30
	BR603	Trussed	23	600	11 1/2 x 3 1/8	11.55
2000	BR604	Trussed	28	600	14 x 3 1/8	12.00
	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
	BR701	Trussed	15	700	10 7/8 x 3 1/2	19.60
	BR702	Trussed	20	700	12 3/8 x 3 1/2	20.50
4000	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	28	700	11 7/8 x 3 1/2	21.40
	BR802	Trussed	28	700	15 7/8 x 3 1/2	23.30
	BR803	Trussed	28	700	15 7/8 x 3 1/2	23.50
	BR804	Trussed	28	700	20 3/8 x 3 1/2	26.60

WORKSTATION CRANES

DESIGN & ERGONOMIC CONSIDERATIONS

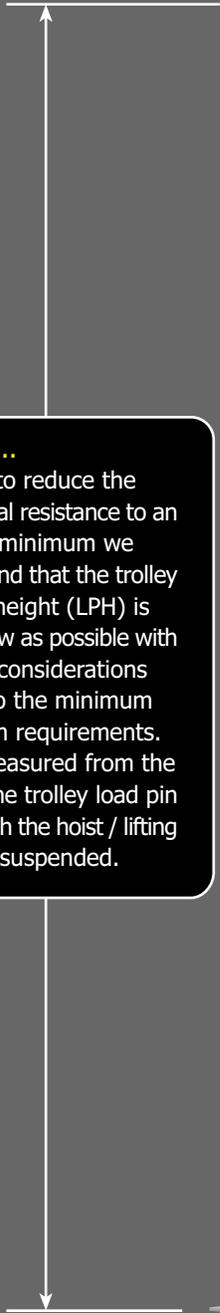
BRIDGE LENGTH...

Keep the bridge length to a minimum, but bare in mind that the active travel for each bridge length is restricted due to the end stops and trolley lengths. Ensure your selected kit provides you with required active travel.



HEIGHT...

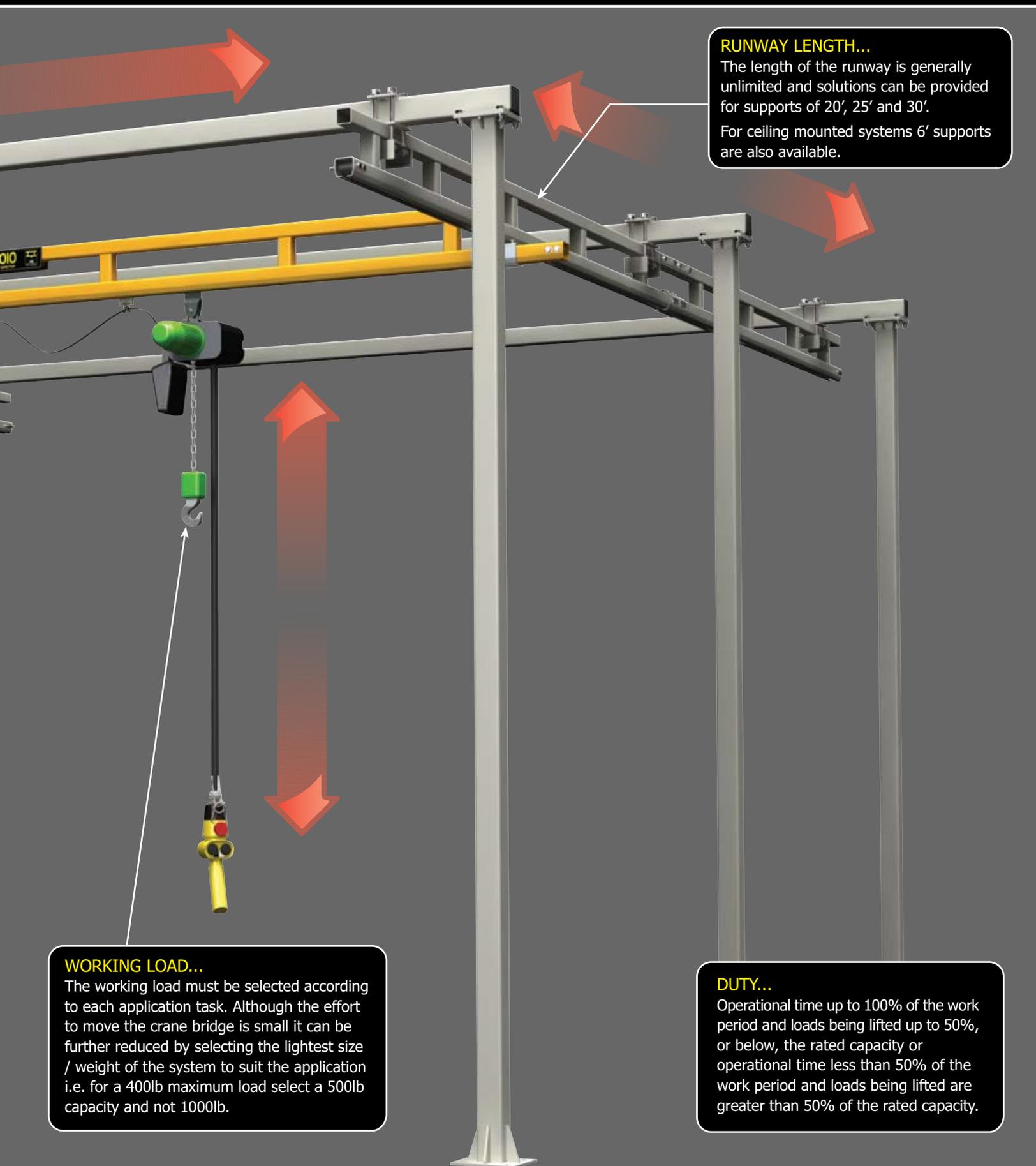
In order to reduce the operational resistance to an absolute minimum we recommend that the trolley load pin height (LPH) is kept as low as possible with practical considerations applied to the minimum headroom requirements. LPH is measured from the floor to the trolley load pin from which the hoist / lifting device is suspended.



RATED CAPACITY...

The capacity is the live load that can be lifted by the crane system. The workstation crane is designed with an allowance of 15% for the weight of the hoist and the trolley; therefore a 1000lb bridge includes the allowance covering the combined hoist and trolley weight of up to 150lbs.

CAP. 1000 LB



RUNWAY LENGTH...
The length of the runway is generally unlimited and solutions can be provided for supports of 20', 25' and 30'.
For ceiling mounted systems 6' supports are also available.

WORKING LOAD...
The working load must be selected according to each application task. Although the effort to move the crane bridge is small it can be further reduced by selecting the lightest size / weight of the system to suit the application i.e. for a 400lb maximum load select a 500lb capacity and not 1000lb.

DUTY...
Operational time up to 100% of the work period and loads being lifted up to 50%, or below, the rated capacity or operational time less than 50% of the work period and loads being lifted are greater than 50% of the rated capacity.

WORKSTATION CRANES

TYPICAL CRANES

CONFIGURATIONS



BASIC CRANE

The **MET-TRACK**® 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.



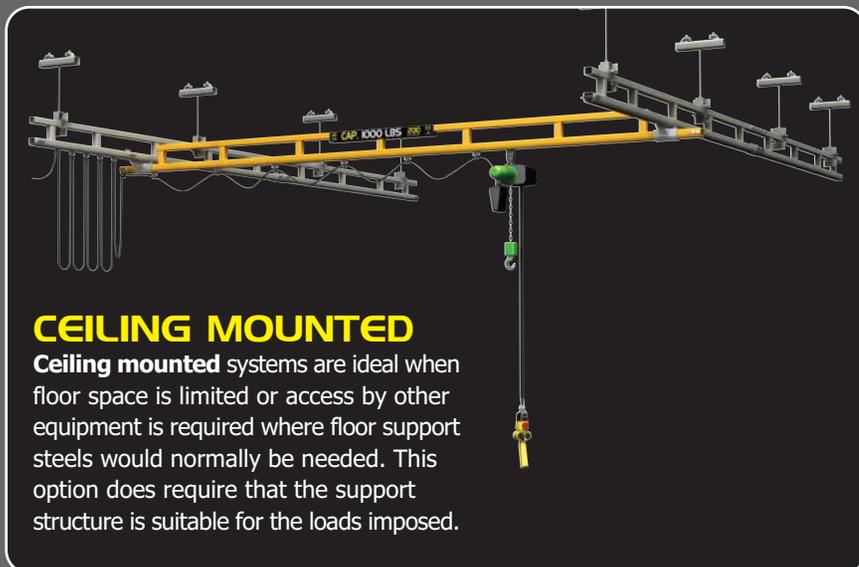
FLOOR MOUNTED

Floor mounted systems are not a permanent part of your factory and therefore can easily be relocated in the future. The installation is often much simpler and does not apply stresses to the building roof structure.



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.



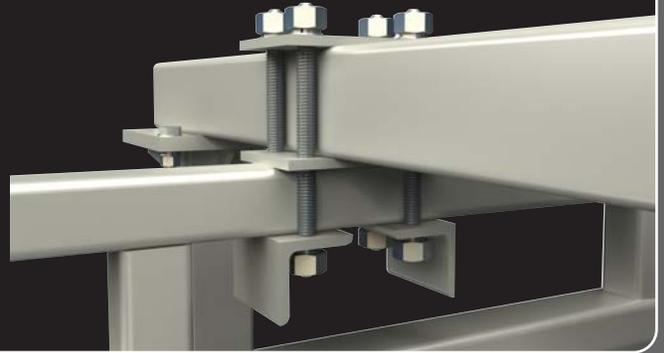
CEILING MOUNTED

Ceiling mounted systems are ideal when floor space is limited or access by other equipment is required where floor support steels would normally be needed. This option does require that the support structure is suitable for the loads imposed.



FLOOR MOUNT ASSEMBLIES

- Flush mount hanger assemblies
- Double clamp saddle arrangement
- Torsional strength of the header is 40x that of traditional I-Beam
- Adjustment both laterally and longitudinally
- Low weight headers for easier handling during installation



CEILING MOUNT ASSEMBLIES

- Flush mount hanger assemblies
- Double clamp saddle arrangement
- Torsional strength of the header is 40x that of traditional I-Beam
- Adjustment both laterally and longitudinally
- Low weight headers for easier handling during installation
- Sway Bracing - If complete stability is required
- Low weight headers for easier handling during installation



DROP ROD

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



FLUSH MOUNT

- Trussed Runway
- Parallel or Perpendicular



FLUSH MOUNT

- Plain Runway
- Parallel or Perpendicular

MOUNTING CONFIGURATIONS

We offer many different mounting configurations to suit most requirements.

Here you can see the most common mounting options available. For other options please contact our sales office.

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 or can be, please refer to your dealer.



WORKSTATION CRANES

COMPONENTS



END CLAMP

Fitted at the end of the crane bridge and at the end of the runway festoon section. Utilized as standard on all systems with festoon power supply.



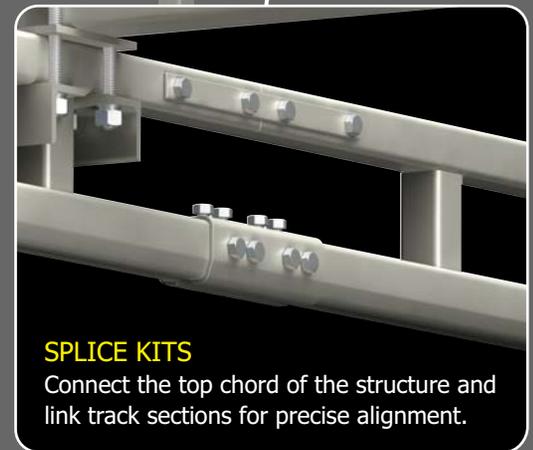
FESTOON TROLLEY

Utilized on power hoist systems for carrying the flat/round cable or hose from the static source to the moving hoist or bridge



END TRUCK

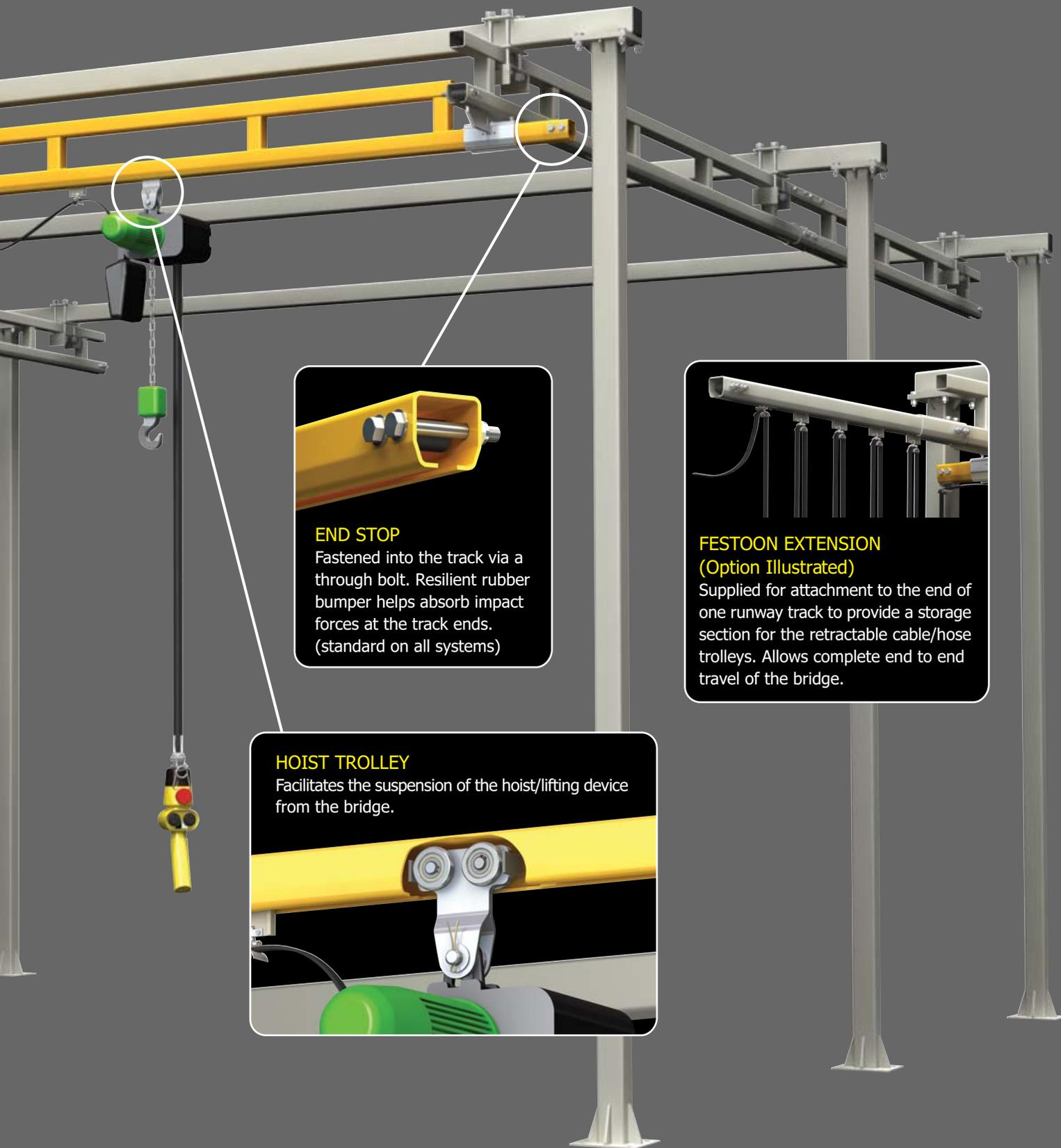
Provides a smooth running connection between the bridge and runway track. The horizontal side guidance wheels guard against 'crabbing action' which can arise if the runway tracks are installed slightly out of parallel.



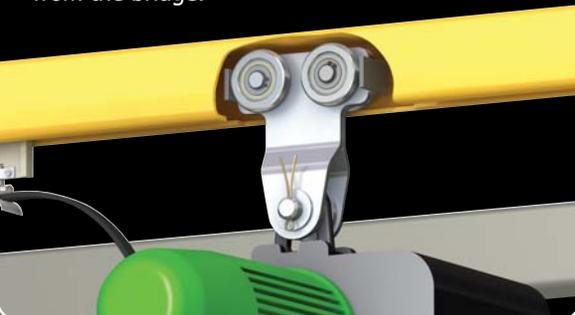
SPLICE KITS

Connect the top chord of the structure and link track sections for precise alignment.

OPTIONAL CONDUCTOR SYSTEM - PLEASE SEE THE RELEVANT CHAPTER WITHIN THIS BROCHURE



END STOP
Fastened into the track via a through bolt. Resilient rubber bumper helps absorb impact forces at the track ends. (standard on all systems)



HOIST TROLLEY
Facilitates the suspension of the hoist/lifting device from the bridge.



FESTOON EXTENSION
(Option Illustrated)
Supplied for attachment to the end of one runway track to provide a storage section for the retractable cable/hose trolleys. Allows complete end to end travel of the bridge.

WORKSTATION CRANES

OPTIONALAL 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 equipment it is traditional that standard festoons provide this function, however not without problems.

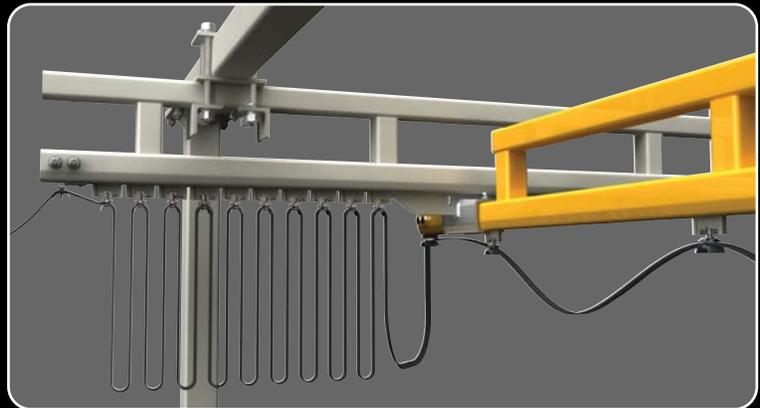
As a standard upgrade option the **MET-TRACK®** system has available an enclosed conductor system, named 4DUCTOR, that can be fitted to the runway and bridge if festoon loops would pose a problem. This simple to add system offers no resistance to the easy movement of a workstation crane but benefits the installation of end to end travel removing the need for festoon storage.

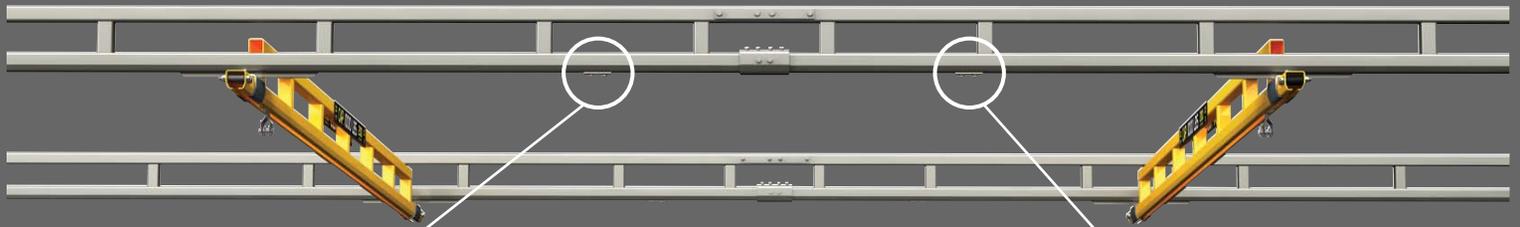
FEATURES OF 4DUCTOR:

- Continuous Copper Conductors
- Range of Standard Capacities
- Minimum Brush Wear
- Totally Enclosed Profile
- 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

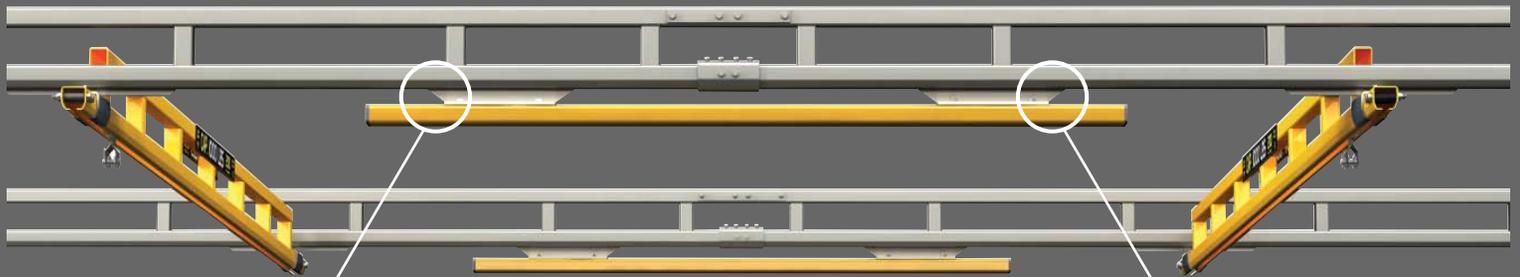
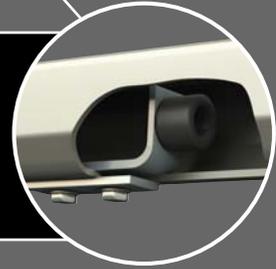
BRIDGE TRAVEL WITH 4-DUCTOR® COMPARED TO FESTOON SYSTEM





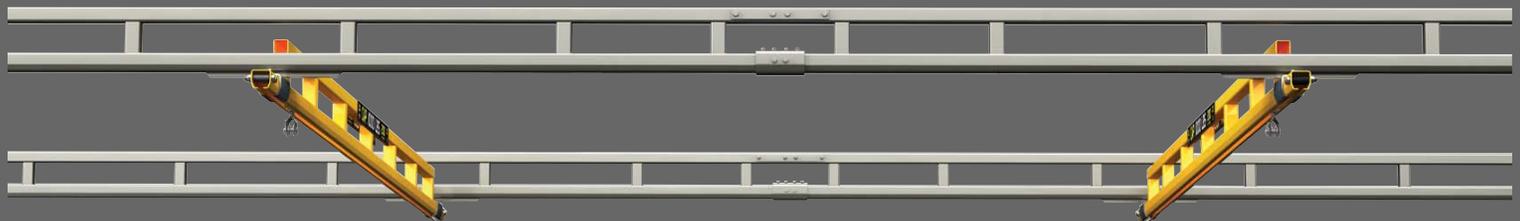
INTERMEDIATE STOPS

These can be placed inside the runway tracks to allow each bridge an independent working area. This means each bridge is isolated into a separate span which minimizes the runway track capacity.



BRIDGE BUFFERS

Bridge buffers are suspended from two trolleys in the runway to create a predetermined minimum distance the bridges can operate from each other.



MIXED CAPACITY

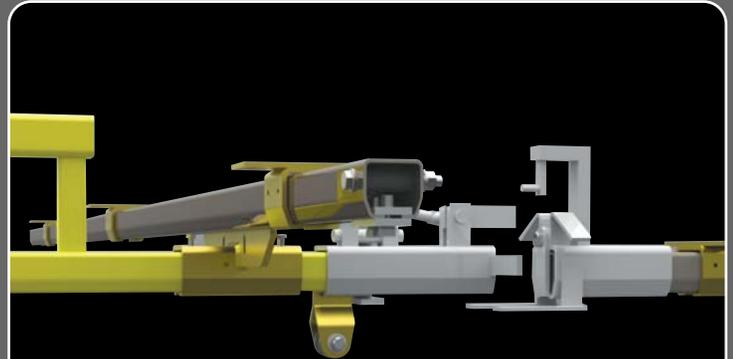
Multiple bridges can be used with mixed capacities with only the runway steelwork having to be of a heavier design i.e. two 500lb bridges can work anywhere when installed on 1000lb runway kits.

WORKSTATION CRANES OPTIONS



TRACTOR DRIVES

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



TRANSFER UNITS

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.



TELESCOPIC BRIDGES

Designed to run within a standard bridge and their extension facilitates working outside the normal crane working area.



CANTILEVER BRIDGE

Where required one or both ends of a bridge can be cantilevered beyond the standard 12" overhanging in order to enable a crane to cover an increased working area.

**FILL OUT THIS FORM, LOG ON TO WWW.METREEL.COM,
INPUT THE DATA, RECEIVE A CRANE QUOTATION**

Refer to the following page for help with the various dimensional data required.

DETAILS REQUIRED FOR A QUOTATION

1 MOUNTING CONFIGURATION



Floor Mounted Crane System



Ceiling Mounted Crane System

2 BRIDGE MAXIMUM LOAD CAPACITY

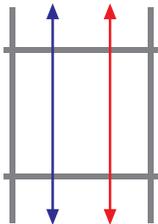
lbs

3 NUMBER OF BRIDGES

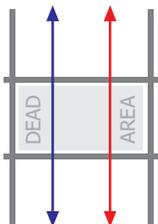
One Two Three Four Five

* If one bridge is required item No.4 does not apply

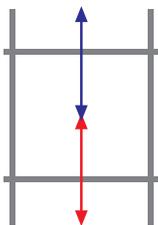
4 MULTIPLE BRIDGE TYPE



Mixed Capacity Systems
Multiple bridges can be used with mixed capacities with only the runway steelwork having to be of a heavier capacity i.e. dual 500lb bridge system requires 1000lb runway capacity.



Bridge Buffer Systems
Bridge buffers are suspended from two trolleys in the runway track to create a predetermined minimum distance the bridges can operate from each other. This provides a moving 'dead area' shown in grey.



Intermediate Stops
These can be placed inside the runway tracks to allow each bridge an independent working area, this means each bridge is independent from each other. This minimizes the runway track capacity.

5 ACTIVE TRAVEL (AT) or BRIDGE LENGTH (CBL)

feet or feet

6 RUNWAY LENGTH (GTL)

feet

Let the website decide the most economic spans

OR

We have problematic spans (ideal spans listed below)
Maximum span length 30ft

Span L1 <input type="text" value=""/> feet	Span L2 <input type="text" value=""/> feet	Span L3 <input type="text" value=""/> feet
Span L4 <input type="text" value=""/> feet	Span L5 <input type="text" value=""/> feet	Span L6 <input type="text" value=""/> feet
Span L7 <input type="text" value=""/> feet	Span L8 <input type="text" value=""/> feet	Span L9 <input type="text" value=""/> feet

7 FLOOR MOUNT - SUPPORT STEEL WORK

Load Pin Height feet

Sway Brace **NOT** Required / By Others

Optional Internal Sway Brace Required

8 CEILING MOUNT - SUPPORT STEEL WORK

Fixed Height, No Sway Bracing Required

Adjustable Height

Sway Bracing Kit

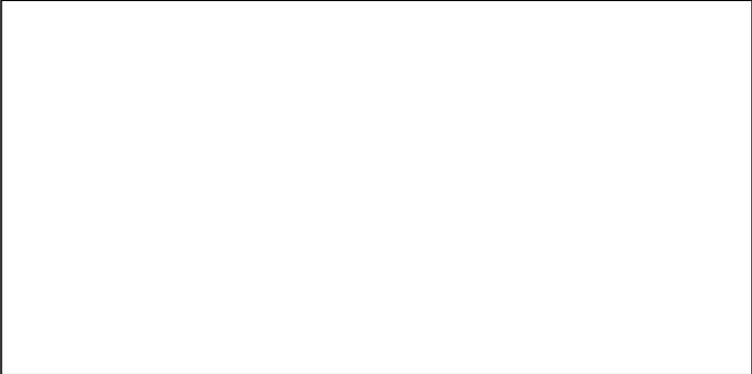
9 HOIST OPTIONS

Manual Hoist - no power required

Electric Hoist Festoon Long Travel & Cross Travel
 Conductor Long Travel Festoon Cross Travel

Vacuum Lifter - Vac Hose Trolleys

Powered Drive Cross Travel
 Long Travel
 Both Cross & Long Travel



Toll Free Tel: 877-830-9803
Email: sales@metreel.com **Web:** www.metreel.com

M168-0414

