

CM[®]

LodeRail

IT'S REVOLUTIONARY

**WORK STATION
BRIDGE CRANES
& MONORAILS
FREE STANDING
& CEILING
MOUNTED**





LodeRail

WORK STATION BRIDGE CRANES & MONORAILS

FREE STANDING & CEILING MOUNTED

CAPACITIES FROM 250 TO 4000 LBS

PRE-ENGINEERED COMPONENTS

LodeRail is a complete crane system. The wide variety of components makes this system versatile, easy to order, and quickly shipped.

EASY TO INSTALL

Easy to install free standing work stations: LodeRail systems can be bolted to any normal 6" reinforced floor. No welding or special installations are required.

MODULAR DESIGN

Since LodeRail units are made up of pre-engineered kits, a system can be easily expanded by adding runways or bridges, if capacity allows.

EASY TO MOVE

Ability to relocate to another location: The unique bolted construction not only allows LodeRail systems to be modular, but also easy to disassemble and relocate to another area or building.

ECONOMICAL & EFFICIENT

The hook coverage provided by a LodeRail system reduces the need for vehicle traffic, freeing up valuable floor space for production. In addition, parts can be efficiently moved without having to find, use, and then put away special equipment such as a forklift.

SAFETY

Having hoists readily available on a LodeRail system can help reduce injuries associated with manually moving loads. Besides helping employees, lower costs for workers' compensation and higher productivity translates into increased profits for your company.

STANDARDS

All LodeRail Jib and Work Station Cranes are in accordance with *OSHA Specification 1910.179* and *ANSI Specification B30.11*, as they apply to jib and overhead cranes. All LodeRail Work Station Cranes meet or exceed the requirements of *MMA MH27.2 Specifications for Enclosed Track Systems*.



All Work Station Cranes are in accordance with the following Canadian Standards as they apply to Overhead Cranes: *CSA Standard B167-96* and *CSA Standard C22.2 No. 33-M1984 (reaffirmed 1992)*.

WARRANTY

5 year warranty for defects in material and workmanship. Trolley and end truck wheels only.

Mixed Capacity Bridge Crane Systems

To further improve the movement of material and reduce the overall system cost, the LodeRail system allows for multiple lower capacity bridges to be used on higher capacity runways. As an example, four - 500 lb. bridges can be hung from a 2000 lb. runway, allowing for simultaneous use of all four bridges without overloading the system. The system layout will need to be approved by factory personnel to insure runways and hangers are not overloaded.

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KEY COMPONENTS OF LODERAIL



HOIST TROLLEY

1 The LodeRail hoist trolley provides the means for suspending the hoist. Wheels match the taper of the track which reduces rolling resistance. Wheels contain ball bearings that are sealed and lubricated for life. Trolleys are designed to operate in temperatures from +5°F to +200°F.



STACK SECTIONS

2 A Stack Section at one end of a runway serves as an extension that allows festoon carriers to be stored on the end of the runway without reducing crane coverage.



FESTOON TROLLEYS

3 These trolleys have four wheels and a pivoting festoon saddle support. They are ideal for use with round cable or air hose. When runways are greater than 63 feet, festoon trolleys are standard. They are an option on steel systems utilizing flat cable with runways 63 feet or less.

FLAT CABLE & AIR HOSE

All LodeRail work station bridge cranes include a flat cable festooning system. Enough cable is provided for 3 foot loops on the runway and 1' 6" loops on the bridge. Optional air hose and supporting festoon trolleys are also available. LodeRail systems can be fitted with conductor bar electrification; however, the amount of effort required to move the system is increased by up to 40%.



END TRUCKS

4 The LodeRail end trucks provide connection between the bridge and runways. Wheels match the taper of the track which reduces rolling resistance. Two horizontal wheels center the truck within the runway to prevent binding of the bridge. Any slight runway misalignment is taken up by having the bridge float in one end truck and firmly clamped in the other.



END STOP & UNIVERSAL BUMPERS

5 High-impact molded end stop bumpers are provided on all runways and bridges to prevent the end truck and trolley from exiting the track. The bumpers are bolted to the track to physically limit the travel of the end truck and trolley. Universal bumpers (not shown in image to right) are an option that can be used as an intermediate end stop, primarily for zoning purposes.



FESTOON GLIDERS

6 Festoon Gliders are used to support flat cable along the runway and bridge. They are standard on steel runways of 63 feet or less. No tools are required to attached the festooning to the gliders.

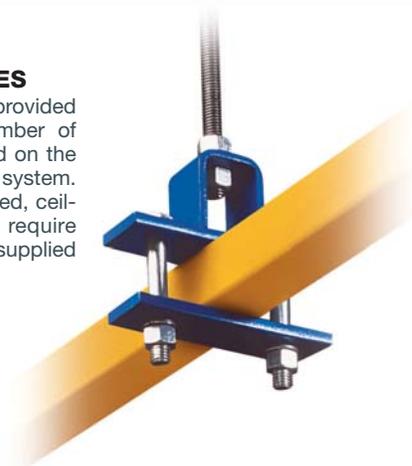
FESTOON CLAMPS

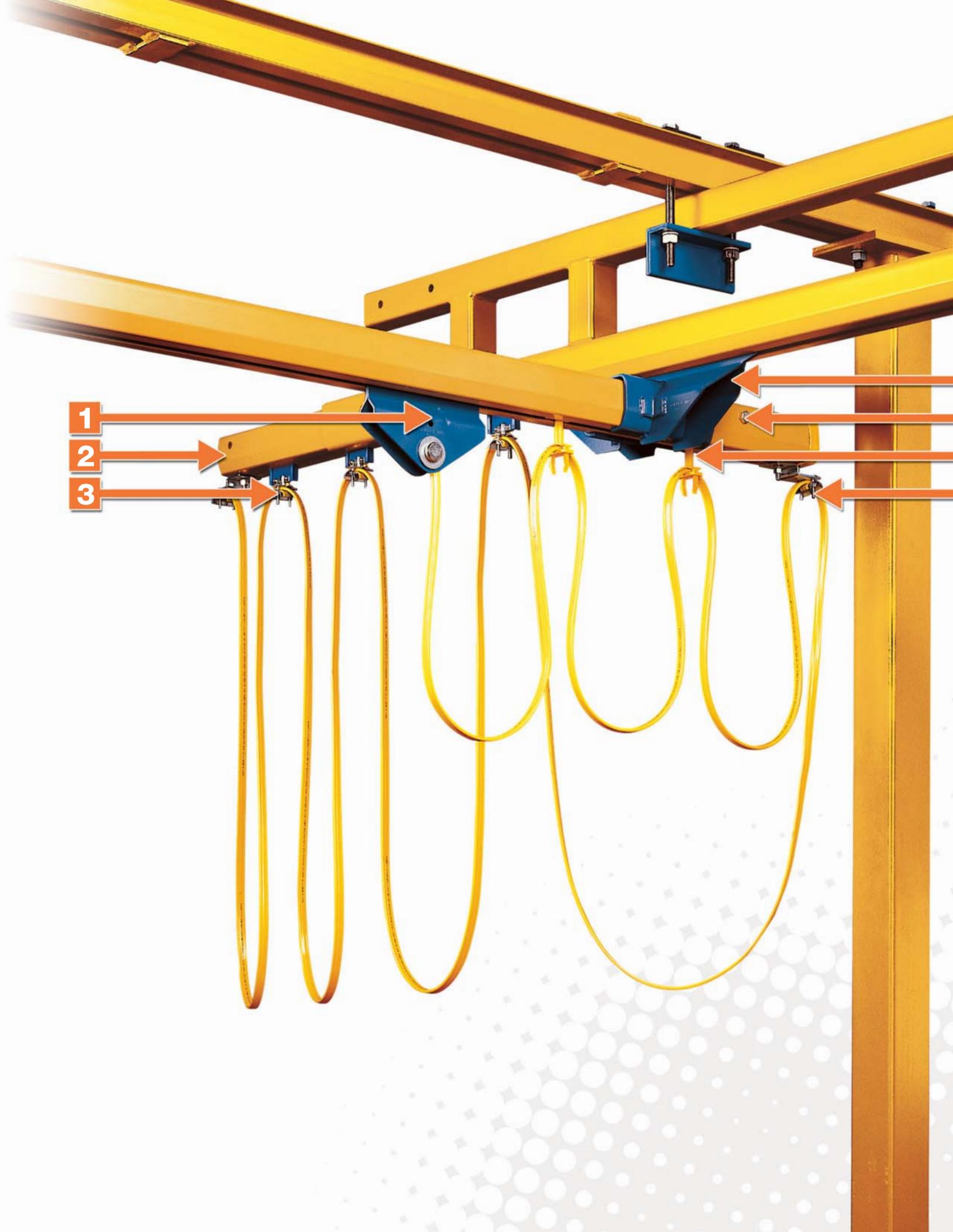
7 Festoon clamps anchor the festooning at the start of the runway and bridge. They also prevent the festooning gliders from exiting the track, and provide a redundant stop for the end trucks and trolleys. Festoon tow clamps are also available for systems with standard end trucks.

HANGER ASSEMBLIES

Each LodeRail system is provided with the appropriate number of hanger assemblies, based on the support required by the system. Except when flush mounted, ceiling mounted systems require sway bracing fittings (not supplied as standard).

CEILING MOUNTED HANGER SHOWN





- 1
- 2
- 3

Complete your LodeRail System

Complete your LodeRail System with a hoist from the broadest portfolio of manual and powered hoists in the industry. The experience of a Columbus McKinnon Application Expert can help you select one that best suits your needs.

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▶ CM SHOPSTAR

Capacities from $\frac{1}{8}$ to $\frac{1}{2}$ ton

Use when you need a rugged, high duty electric chain hoist that is lightweight and provides very low headroom.

▶ CM VALUSTAR

Capacities from $\frac{1}{4}$ to 2 tons

Use when you need an economical, durable, general purpose electric chain hoist.

▶ COFFING JLC

Capacities from $\frac{1}{8}$ to 2 tons

Use when you need an industrial duty electric chain hoist available in single, two or variable speeds.

▶ BUDGIT MANGUARD

Capacities from $\frac{1}{4}$ to 3 tons

Use when you need a highly configurable hoist with an optional load brake and various application-specific features.

▶ CM LODESTAR

Capacities from $\frac{1}{8}$ to 3 tons

Use when you want to utilize a best-in-class hoist for extra heavy duty applications that require special options and features – all backed by a lifetime warranty.

Hoists available in electric and air versions.
All hoists listed are made in the USA





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
- Rigging Gear Inspection
- Rigging
- Safe Hoisting
- Crane Operator Training



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 located at The Ohio State University. The COHAM lab is a hands-on learning center that 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 training 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 a single Lodestar® electric chain hoist or a completely engineered system to outfit your production facility, Columbus McKinnon provides the material handling products and expertise you need to keep your workforce productive and safe.



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