

LodeRail™

TIPS FOR FESTOONING WITH MULTIPLE BRIDGES

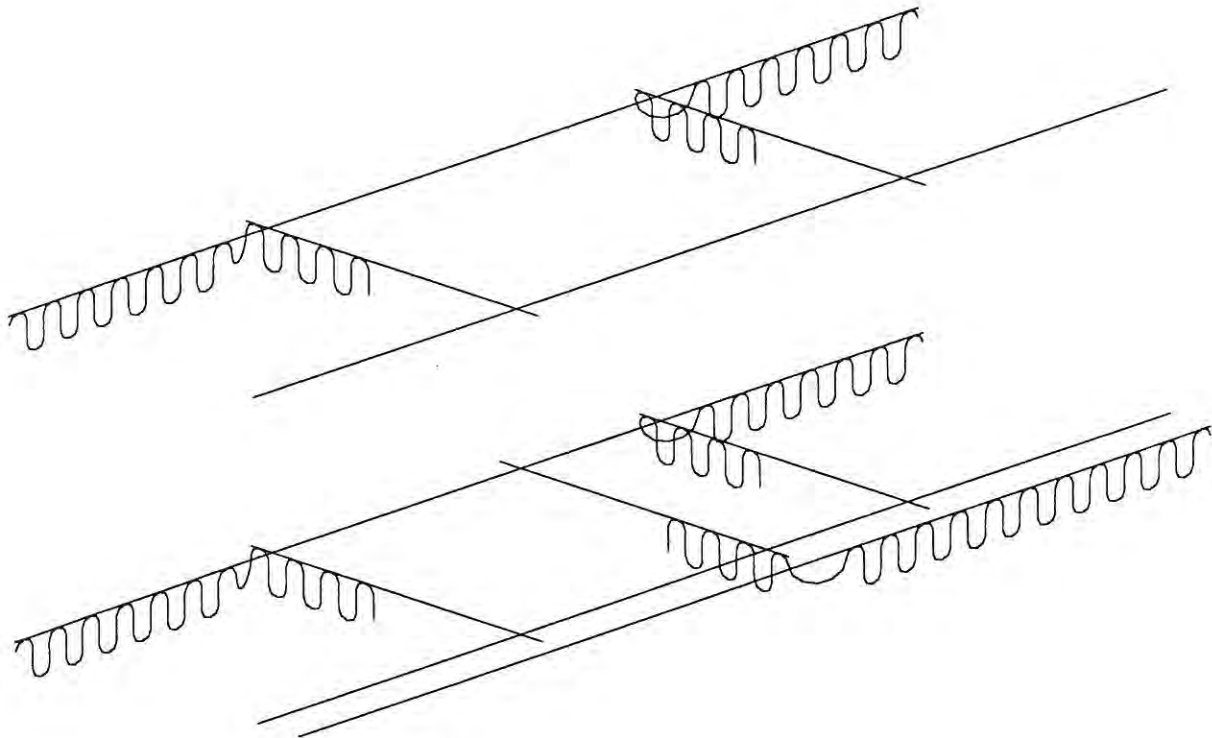
TWO BRIDGES:

The most common method of bringing power to the two bridges is by bringing festooning in from both ends of the runway. Use the Festoon Adder/Deduct Chart (Page 75) to add additional festooning to a system.

THREE OR MORE SYSTEMS:

Option 1:
Conductor bar (contact factory for pricing) can be used with collector shoes to bring power to the bridges. As a rule the conductor bar is the most practical and economical choice on systems with three (3) or more bridges and/or runways exceeding 100 feet.

Option 2:
A festoon support (a separate 250# series track or messenger wire system) can be attached off to one side of the runway or runways.





ADDERS/DEDUCTS FOR FESTOONING – Use when ordering complete systems ONLY.

Standard work area bridge crane systems include bridge and runway festooning:

- 1) Festoon Trolleys
- 2) 4 - Conductor flat cable OR 1/2" air hose, (total length = runway length + bridge length + 10')
- 3) 2 festoon clamps
- 4) 1 festoon stack-up section

Recommendations and Guidelines for Festooning:

- 1) LodeRail uses Festoon Trolleys for all applications and all runway lengths.
- 2) Vacuum Hose Trolleys are available for up to 5" diameter vacuum hose.
- 3) For festooning package pricing sold separately from bridge crane systems, purchase individual components.

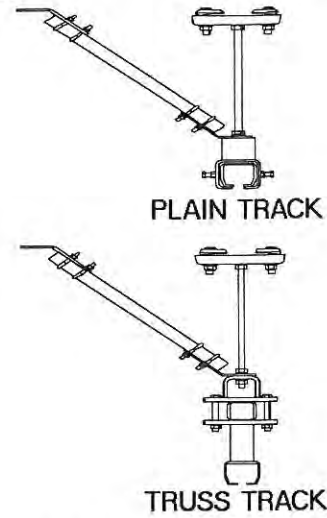
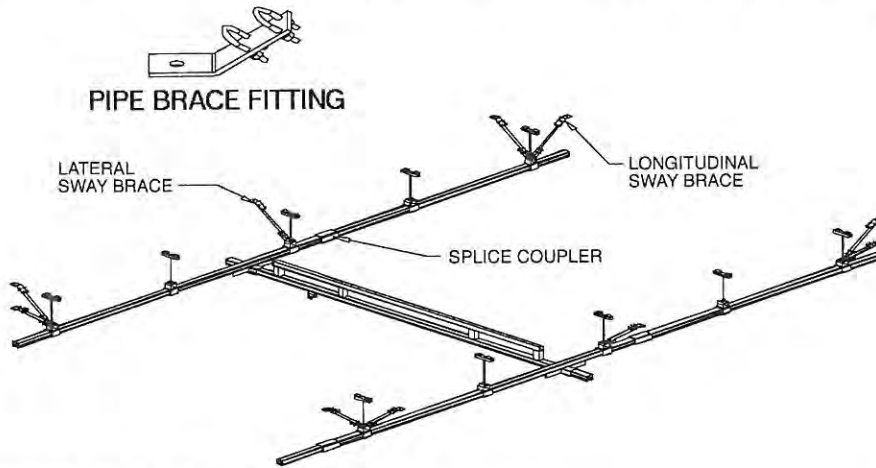
RUNWAY LENGTH	8' Bridge Length	10' Bridge Length	15' Bridge Length	20' Bridge Length
	No Festooning (Adder)	No Festooning (Adder)	No Festooning (Adder)	No Festooning (Adder)
11' - 6	<\$207>	<\$217>	----	----
23'	<\$247>	<\$257>	<\$281>	<\$301>
28'	<\$267>	<\$288>	<\$309>	<\$324>
33'	<\$289>	<\$301>	<\$324>	<\$342>
43'	<\$332>	<\$343>	<\$366>	<\$385>
53'	<\$368>	<\$377>	<\$401>	<\$419>
63'	<\$396>	<\$405>	<\$437>	<\$454>
78'	<\$651>	<\$662>	<\$701>	<\$801>
83'	<\$870>	<\$905>	<\$980>	<\$1,023>
93'	<\$957>	<\$983>	<\$1,076>	<\$1,136>
103'	<\$1,046>	<\$1,080>	<\$1,154>	<\$1,197>

RUNWAY LENGTH	23' Bridge Length	28' Bridge Length	34' Bridge Length
	No Festooning (Adder)	No Festooning (Adder)	No Festooning (Adder)
11' - 6	----	----	----
23'	<\$313>	<\$342>	<\$348>
28'	<\$342>	<\$350>	<\$360>
33'	<\$356>	<\$373>	<\$405>
43'	<\$396>	<\$420>	<\$447>
53'	<\$431>	<\$454>	<\$483>
63'	<\$470>	<\$492>	<\$521>
78'	<\$788>	<\$821>	<\$886>
83'	<\$1,059>	<\$1,101>	<\$1,202>
93'	<\$1,151>	<\$1,205>	<\$1,289>
103'	<\$1,234>	<\$1,305>	<\$1,381>

NOTE:
 'No festooning' deduct is also used as the adder for additional festooning on mixed capacity systems.

LodeRail™

SWAY BRACE KITS – Use in ordering with complete systems ONLY.



Reasons for Sway Bracing

LodeRail Ceiling Mounted Bridge Cranes require bracing to help prevent damaging lateral and longitudinal movements. Sway bracing will reduce lateral stresses on hangers and hanger rods and keep runways securely positioned for smooth operation. The added rigidity provided by sway bracing will also help prevent hardware from loosening.

Guidelines for Applying Sway Bracing

The amount of sway bracing is typically determined by a combination of the length of the system and the distance of the drop from the ceiling. LodeRail recommends sway bracing any system that uses a threaded rod drop. If a “threaded rod drop is used, all four corners of the system should be braced both laterally and longitudinally,” and the system should be braced on both sides at the hanger points nearest the splice joints.

NOTE: Actual sway brace requirements will vary from system to system. For drops longer than 6 feet. LodeRail recommends that structural tubing or angle be used for increased rigidity (sway bracing is still required).

Sway brace fitting kits are priced below based on the above recommendations.

Each kit includes top and bottom fittings for each sway brace. 1" pipe (by others) is not included.

Runway Length	Track Style					
	Plain Track*			Trussed Track		
	6' Max. Support Centers			20' Max. Support Centers		
	Quantity Each	Weight	Price Per Kit	Quantity Each	Weight	Price Per Kit
11'-6"	16	16 #	\$305	16	16 #	\$305
23'	16	16 #	\$305	16	16 #	\$305
33'	20	18 #	\$389	20	18 #	\$389
43'	20	18 #	\$389	20	18 #	\$389
53'	24	20 #	\$469	24	20 #	\$469
63'	24	20 #	\$469	24	20 #	\$469
83'	28	22 #	\$543	28	22 #	\$543
103'	32	24 #	\$618	32	24 #	\$618

Runway Length	Track Style					
	Trussed Track			Trussed Track		
	25' Max. Support Centers			30' Max. Support Centers		
	Quantity Each	Weight	Price Per Kit	Quantity Each	Weight	Price Per Kit
28'	16	16 #	\$305	----	----	----
33'	----	----	----	16	16 #	\$305
53'	20	18 #	\$389	----	----	----
63'	----	----	----	20	18 #	\$389
78'	24	20 #	\$469	----	----	----
93'	----	----	----	24	20 #	\$469
103'	28	22 #	\$543	----	----	----
123'	----	----	----	28	22 #	\$543

*Based on 20' track length.