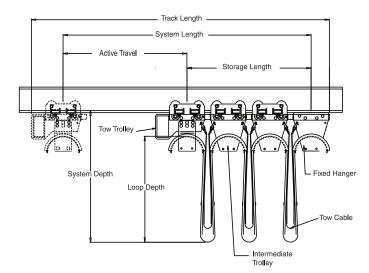


Magnetek's Electromotive Systems Mill Duty I-Beam Festoon Systems efficiently and economically deliver power and control to cranes used in a variety of severe industrial environments.

Features

- Standard 4" diameter trolley wheel
- Capacity of flanged main wheel trolley: -800 lbs. @ 400 ft./min.
 -600 lbs. @ 600 ft/min.
- Trolleys manufactured from low carbon steel and are zinc plated with gold dichromate finish
- Bar clamps are available to secure cable
- Capacity of non-flanged trolley wheel (with side guide wheels)
 -1,000 lbs. @ 400 ft./min.
 -800 lbs. @ 600 ft./min.
- Trolleys are available with galvanized finish
- Trolleys are available in stainless steel

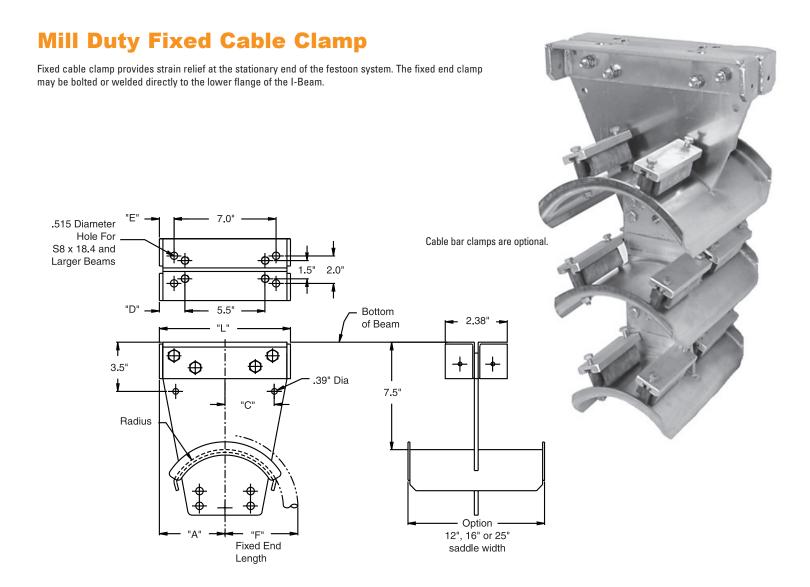


Trolleys are available for installation on 8'" through 12" I-Beams. Whatever your requirements, Magnetek can provide the power and control you need in a Mill Duty I-Beam Festoon System.

Track Length	Total Length of festoon track or I-Beam
System Length	Total extended length of festoon system. Centerline of end cable clamp to centerline of tow trolley/tow bar.
Storage Length	Distance from centerline of tow trolley to centerline of end cable clamp when festooned equipment is parked in the starting position. Storage distance may become exceedingly long on longer festoon systems but can be shortened by increasing the loop depth of the cable.
Active Travel	Actual tow trolley travel distance of festooned equipment from the starting position to the final position along the track length.
System Depth	The distance from the running surface of the track or I-Beam to the lower most point of the cable loop.
Loop Depth	The distance from the trolley saddle surface to the lower most point of the cable loop.
Tow Trolley	Outer trolley that provides an area to interface with the tow bar that is mounted on the traveling portion of the festooned equipment.
Intermediate Trolley	Trolleys are located between the tow trolley and the end cable clamp providing cable support as system expands.
Fixed Hanger/End Cable Clamp	Secures cable at the beginning of the festoon system, reducing cable stress at the termination points.
Tow Cable/Chain	Cable or chain secured between each trolley to reduce cable stress along the festoon system. Primarily used in applications with heavy cable loads or high travel speeds.



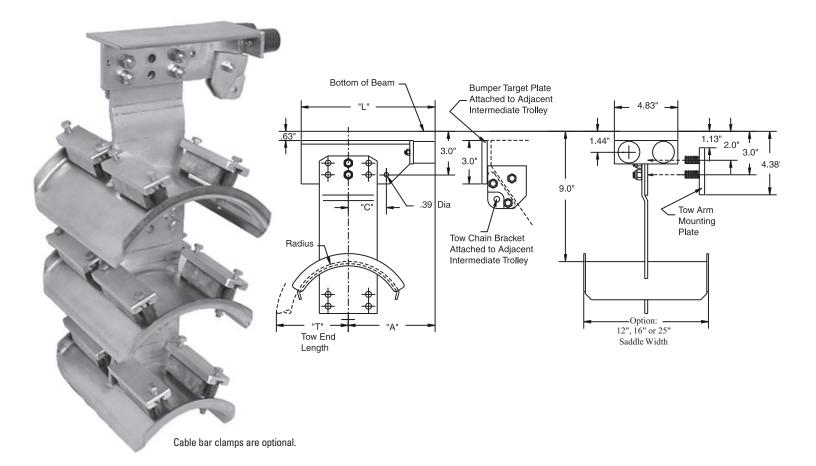
ELECTROMOTIVE SYSTEMS TELEMOTIVE ENRANGE MONDEL



SADDL	SADDLE														
Туре	Radius	Dim "L"	Dim "F"	Dim "A"	Dim "E"	Dim "D"	Dim "C"	Туре	Radius	Dim "L"	Dim "F"	Dim "A"	Dim "E"	Dim "D"	Dim "C"
A4	4"	9.00"	5.00"	4.50"	1.00"	1.75"	3.38"	E6	6"	15.50"	8.25"	7.75"	4.25"	5.00"	5.37"
B4	4"	9.00"	5.00"	4.50"	1.00"	1.75"	3.38"	F6	6"	15.50"	8.25"	7.75"	4.25"	5.00"	5.37"
C4	4"	9.00"	5.00"	4.50"	1.00"	1.75"	3.38"	A8	8"	18.50"	9.75"	9.25	5.75"	6.50"	7.55"
D4	4"	11.00"	6.00"	5.50"	2.00"	2.75"	3.38"	B8	8"	18.50"	9.75"	9.25	5.75"	6.50"	7.55"
E4	4"	11.00"	6.00"	5.50"	2.00"	2.75"	3.38"	C8	8"	18.50"	9.75"	9.25	5.75"	6.50"	7.55"
F4	4"	11.00"	6.00"	5.50"	2.00"	2.75"	3.38"	D8	8"	20.50"	10.75"	10.25"	6.75"	7.50"	7.55"
A6	6"	13.50"	7.25"	6.75"	3.25"	4.00"	5.37"	E8	8"	20.50"	10.75"	10.25"	6.75"	7.50"	7.55"
B6	6"	13.50"	7.25"	6.75"	3.25"	4.00"	5.37"	F8	8"	20.50"	10.75"	10.25"	6.75"	7.50"	7.55"
C6	6"	13.50"	7.25"	6.75"	3.25"	4.00"	5.37"	AØ	10"	23.50"	12.25"	11.75"	8.25"	9.00"	9.83"
D6	6"	15.50"	8.25"	7.75"	4.25"	5.00"	5.37"								

Mill Duty Tow Cable Clamp

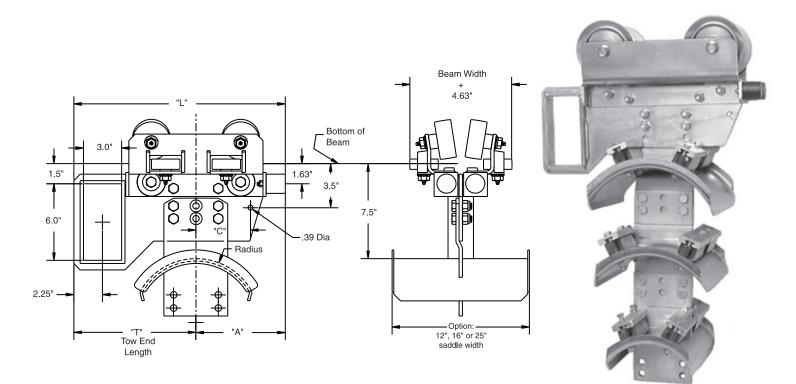
A less expensive alternative to a tow trolley, the tow cable clamp is designed to be mounted to the moving equipment directly in-line with the festoon system. The tow cable clamp is not recommended for equipment that may have vertical movement of 2.00 inches or more while traveling the overall length of the system.



SADDLE											
Туре	Radius	Dim "L"	Dim "A"	Dim "T"	Dim "C"	Туре	Radius	Dim "L"	Dim "A"	Dim "T"	Dim "C"
A4	4"	9.75"	6.00"	5.00"	3.38"	F6	6"	12.50"	9.25"	8.25"	5.37"
B4	4"	9.75"	6.00"	5.00"	3.38"	A8	8"	14.00"	10.75"	9.75"	7.55"
C4	4"	9.75"	6.00"	5.00"	3.38"	B8	8"	14.00"	10.75"	9.75"	7.55"
D4	4"	10.25"	7.00"	6.00"	3.38"	C8	8"	14.00"	10.75"	9.75"	7.55"
E4	4"	10.25"	7.00"	6.00"	3.38"	D8	8"	15.00"	11.75"	10.75"	7.55"
F4	4"	10.25"	7.00"	6.00"	3.38"	E8	8"	15.00"	11.75"	10.75"	7.55"
A6	6"	11.50"	8.25"	7.25"	5.37"	F8	8"	15.00"	11.75"	10.75"	7.55"
B6	6"	11.50"	8.25"	7.25"	5.37"	AØ	10"	16.50"	13.25"	12.25"	9.83"
C6	6"	11.50"	8.25"	7.25"	5.37"	BØ	10"	16.50"	13.25"	12.25"	9.83"
D6	6"	12.50"	9.25"	8.25"	5.37"	CØ	10"	16.50"	13.25"	12.25"	9.83"
E6	6"	12.50"	9.25"	8.25"	5.37"						

Mill Duty Tow Trolley

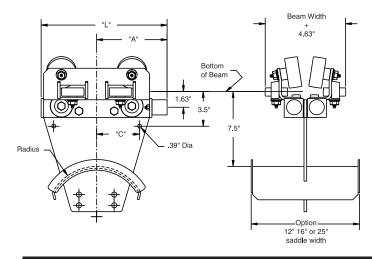
The tow bar passes through the slot of the front end of the tow trolley to propel the trolley. The slot is oversized to provide ample room for the tow bar that eliminates any binding that may occur while system is in motion. It is recommended that anti-lift rollers be used on tow trolleys to prevent trolley from lifting while in motion.



Cable bar clamps are optional

SADDLE											
Туре	Radius	Dim "L"	Dim "A"	Dim "T"	Dim "C"	Туре	Radius	Dim "L"	Dim "A"	Dim "T"	Dim "C"
A4	4"	14.50"	6.00"	8.60"	3.38"	F6	6"	21.00"	9.25"	11.80"	5.37"
B4	4"	14.50"	6.00"	8.60"	3.38"	A8	8"	24.00"	10.75"	13.30"	7.55"
C4	4"	14.50"	6.00"	8.60"	3.38"	B8	8"	24.00"	10.75"	13.30"	7.55"
D4	4"	16.50"	7.00"	9.60"	3.38"	C8	8"	24.00"	10.75"	13.30"	7.55"
E4	4"	16.50"	7.00"	9.60"	3.38"	D8	8"	26.00"	11.75"	14.30"	7.55"
F4	4"	16.50"	7.00"	9.60"	3.38"	E8	8"	26.00"	11.75"	14.30"	7.55"
A6	6"	19.00"	8.25"	10.80"	5.37"	F8	8"	26.00"	11.75"	14.30"	7.55"
B6	6"	19.00"	8.25"	10.80"	5.37"	AØ	10"	29.00"	13.25"	15.80"	9.83"
C6	6"	19.00"	8.25"	10.80"	5.37"	BØ	10"	29.00"	13.25"	15.80"	9.83"
D6	6"	21.00"	9.25"	11.80"	5.37"	CØ	10"	29.00"	13.25"	15.80"	9.83"
E6	6"	21.00"	9.25"	11.80"	5.37"						

Mill Duty Intermediate Trolley



Trolleys are located between the tow trolley and end cable clamp providing cable support as the system expands. Large polyurethane bumpers on the end of each trolley are standard to damper impact between trolleys and end stops.

Cable bar clamps are optional

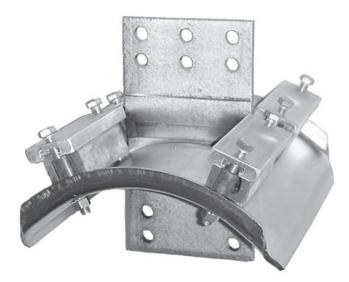


SADDLE									
Туре	Radius	Dim "L"	Dim "A"	Dim "C"	Туре	Radius	Dim "L"	Dim "A"	Dim "C"
A4	4"	10.50"	6.00"	3.38"	F6	6"	17.00"	9.25"	5.37"
B4	4"	10.50"	6.00"	3.38"	A8	8"	20.00"	10.75"	7.55"
C4	4"	10.50"	6.00"	3.38"	B8	8"	20.00"	10.75"	7.55"
D4	4"	12.50"	7.00"	3.38"	C8	8"	20.00"	10.75"	7.55"
E4	4"	12.50"	7.00"	3.38"	D8	8"	20.00"	11.75"	7.55"
F4	4"	12.50"	7.00"	3.38"	E8	8"	22.00"	11.75"	7.55"
A6	6"	15.00"	8.25"	5.37"	F8	8"	22.00"	11.75"	7.55"
B6	6"	15.00"	8.25"	5.37"	AØ	10"	25.00"	13.25"	9.83"
C6	6"	15.00"	8.25"	5.37"	BØ	10"	25.00"	13.25"	9.83"
D6	6"	17.00"	9.25"	5.37"	CØ	10"	25.00"	13.25"	9.83"
E6	6"	17.00"	9.25"	5.37"					

Lower Saddle Assemblies

When configuring a component with lower saddles $(2^{nd} \text{ and } 3^{rd} \text{ saddles})$ the lower saddles must be at least $2^n R$ less than the saddle immediately above it.

Configuration	n Guidelines	
Main Saddle	2nd Saddle	3rd Saddle
10"R	8"R	6"R
8"R	6"R	4"R
6"R	4"R	N/A



Electromotive[™] Cable

Magnetek furnishes a variety of Electromotive Systems cable specifically designed for festoon applications. The cable is available in a round or flat design, comes standard in a safety yellow color, and most sizes are available for same day shipment.

Standard Cable Specifications*:

- Indoor/Outdoor festoon flat cable and round pendant control cable
- 105° C (221° F) 600 volt A.C., 250 volt D.C.
- Conductors are annealed copper
- Each conductor has color coded jacket
- Jacket rating -40° C (-40° F) to 105° C (221° F).**
 Resistant to UV, ozone, water, oil and weather
- 4, 8, or 12 conductor flat cable
- 8, 12, 16 or 24 conductor round pendant control cable
- #2 Awg through #16 flat cable
- #16 Awg round pendant control cable
- * Special cables are also available-contact the factory for more information.

Festoo	n Cable		Cable Grips	
Catalog Number	AWG/Conductors	Catalog Number	For Cables	Thread Type
F-2/4	2 Awg–4 Conductors	F-4CG1	(1) F-6/4 or (2)F-12/8	1.50" NPT
F-4/4	4 Awg–4 Conductors	F-4CG2	(1) F-10/4	1.00" NPT
F-6/4	6 Awg–4 Conductors	F-4CG3	(1) F-12/4 or (1) F-14/4	1.00" NPT
F-8/4	8 Awg–4 Conductors	F-4CG4	(1) F-2/4	2.00" NPT
F-10/4	10 Awg–4 Conductors	F-4CG11	(1) F-12/8	1.50" NPT
F-12/4	12 Awg–4 Conductors	F-4CG3	(1) F-12/4 or (1) F-14/4	1.00" NPT
F-14/4	14 Awg–4 Conductors	F-4/8CG2	(1) F-12/4 or (1) F-14/4 & (1) F-14/8 or (1) F-16/8	1.25" NPT
F-12/8	12 Awg–8 Conductors	F-8CG1	(1) F-14/8 or (1) F-16/8	1.25" NPT
F-14/8	14 Awg–8 Conductors	F-8CG2	(2) F-14/8 or (2) F-16/8 or (1) F-8/4	1.25" NPT
F-16/8	16 Awg–8 Conductors	F-12CG1	(1) F-14/12 or (1) F-16/12	2.00" NPT
F-14/12	14 Awg–12 Conductors	F-12CG2	(2) F-14/12 or (2) F-16/12 or (1) F-4/4	2.00" NPT
F-16/12	16 Awg–12 Conductors	F-12CG3	(3) F-14/12 or (3) F-16/12	2.00" NPT

Cable available in specific lengths or in full reels of 500 or 1000 feet.

Cable available in black color-Add Suffix "-B" to the catalog number.

**Magnetek's flat cable is rated -40°C to 105°C. Round cable is rated -10°C to 90°C. However, they are not recommended for severe flexing or impact at temperatures below -10°C.

For severe flexing applications below -10°C, contact the factory for more information

Per	ndant		Cable Grips				
Catalog Number	AWG/Conductors	Catalog Number	Cable Diameter	Thread Type			
	Strain Relief						
R-16/8SR	16 Awg-8 Conductors	R-CG0	0.236" to 0.472" Inches Cable	.050" NPT			
R-16/12SR	16 Awg-12 Conductors	R-CG1	0.394" to 0.709" Inches Cable	0.75″ NPT			
R-16/16SR	16 Awg-16 Conductors	R-CG2	0.591" to 1.000" Inches Cable	1.00" NPT			
R-16/24SR	16 Awg-24 Conductors		-				
			Special flat and round eables				
	Non Strain Relief	Special flat and round cables					
R-16/8	16 Awg-8 Conductors		are available. Contact the factory				
R-16/12	16 Awg-12 Conductors	1 I	or additional information.				
R-16/16	16 Awg-16 Conductors						
R-16/24	16 Awg-24 Conductors						
R-16/30	16 Awg-30 Conductors						



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