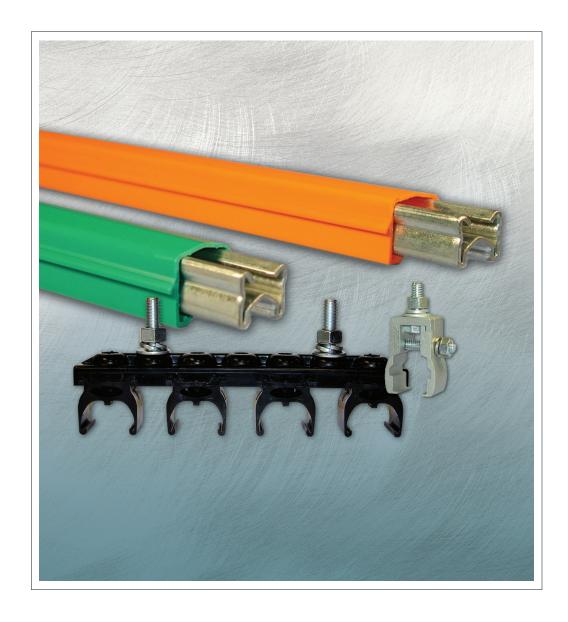
Magnetek ELECTROBAR® FINGER SAFE (FS) Conductor Bar System





ELECTROBAR® FINGER SAFE (FS)

CONDUCTOR BAR SYSTEM

Magnetek knows the safety and performance of your overhead material handling system are top priorities. That's why we proudly offer the Electromotive Systems Electrobar FS Conductor Bar System for the electrification of cranes, monorails and automated storage and retrieval systems.

CONDUCTOR BAR SHAPE ENHANCES PERFORMANCE

- Bar profile design ensures good electrical contact between the collector shoe and conductor bar.
- Wear of the conductor bar cover is minimized because the profile guides the shoe towards the center.
- Potential loss of electrical contact at joints is significantly reduced.
- Rigid conductor bar design minimizes deflection between hangers.

EASY TO INSTALL AND MAINTAIN

- Modular, snap-in multi-pole conductor bar hangers reduce installation and maintenance time.
- Compression-type anchor hangers (US Patent #6588713) eliminate field drilling.
- Expansion line elements come completely pre-assembled.
- Minimal system maintenance required—just periodically replace collector brush assemblies.

VALUE-PACKED SYSTEM

- Systems up to 490 feet in length can be installed without expansion assemblies.
- Standard 15' bar lengths mean fewer joints to purchase.
- Common hangers and joint assemblies.
- System design reduces installation labor costs.

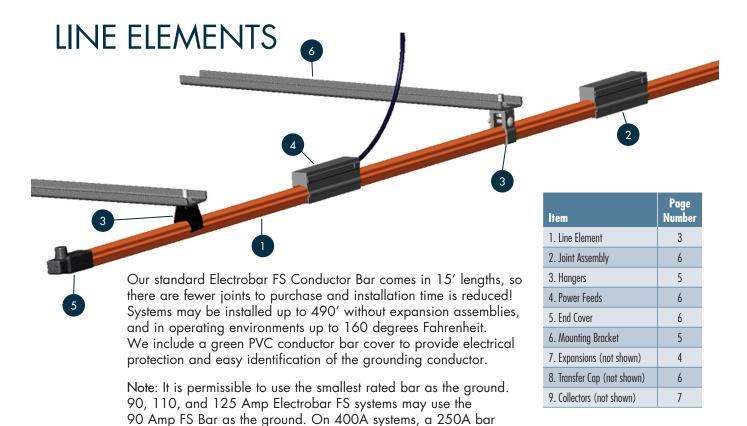
DESIGNED WITH SAFETY IN MIND

- Finger safe design minimizes the potential for electrical contact.
- Grounding conductor bar available with green cover for ease of identification.

AVAILABLE IN A VARIETY OF CONFIGURATIONS

- Single and tandem shoe collector assemblies.
- 90, 110, 125, 250 and 400 Amp ratings.
- Snap-in hanger kits available for 2, 3 and 4 pole applications.
- Single hangers also available for special configurations.
- Many collector styles available.
- Can be used in horizontal or vertical mount applications.

Many parts of the Electrobar FS system are made from plastic insulating materials. The insulating covers for normal temperature use are made of PVC, the plastic hangers are made from polyamide (nylon) as are the plastic parts of the collectors. If your application uses materials or chemicals that can evaporate or get into the air and onto the conductor bar parts, please consult with Magnetek about the suitability of this product in your environment.



1. ELECTROBAR FS GALVANIZED STEEL LINE ELEMENTS

may be used as the grounding conductor.



	Catalog Number Description		Weight	
Catalog Number			Lbs.	Kgs.
FS-90P15	90 Amp Electrobar FS Phase (Orange)	15' - 0"	7.4	3.4
FS-110P15	110 Amp Electrobar FS Phase (Orange)	15' - 0"	9.0	4.0
FS-125P15	125 Amp Electrobar FS Phase (Orange)	15' - 0"	9.0	4.0
FS-90G15	90 Amp Electrobar FS Ground (Green)	15' - 0"	7.4	3.4
FS-110G15	110 Amp Electrobar FS Ground (Green)	15' - 0"	9.0	4.0
FS-125G15	125 Amp Electrobar FS Ground (Green)	15' - 0"	9.0	4.0

Special length line elements are available from 1' to 14' in 1' increments designated by FS-(Amp Rating) (Phase or Ground) X, where X is equal to the length in feet.

Example: FS-90P5 is a 90 Amp Electrobar FS Phase X 5'-0".

1. ELECTROBAR FS COPPER LINE ELEMENTS



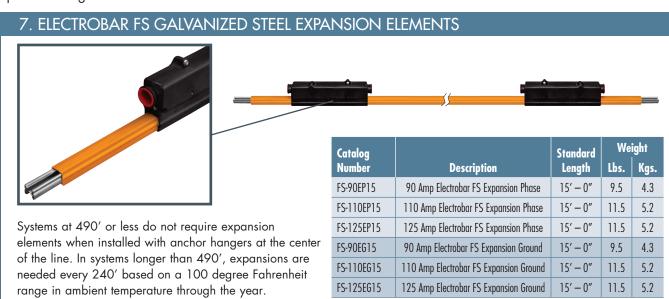
	Standard		Weight	
Catalog Number	Description	Length	Lbs.	Kgs.
FS-250P15	250 Amp Electrobar FS Phase (Orange)	15' - 0"	7.5	3.4
FS-400P15	400 Amp Electrobar FS Phase (Orange)	15' - 0"	10.0	4.5
FS-250G15	250 Amp Electrobar FS Phase (Green)	15' - 0"	7.5	3.4
FS-400G15	400 Amp Electrobar FS Ground (Green)	15' - 0"	10.0	4.5

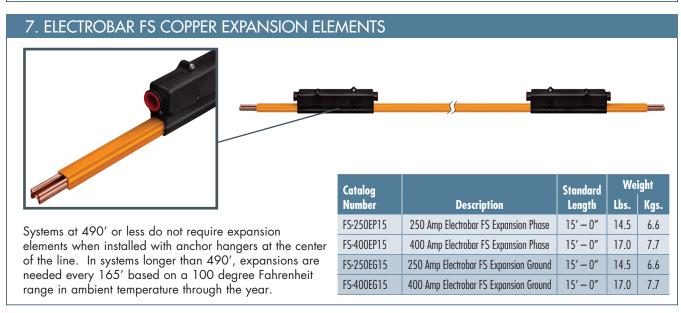
Special length line elements are available from 1' to 14' in 1' increments designated by FS-(Amp Rating) (Phase or Ground)X, where X is equal to the length in feet.

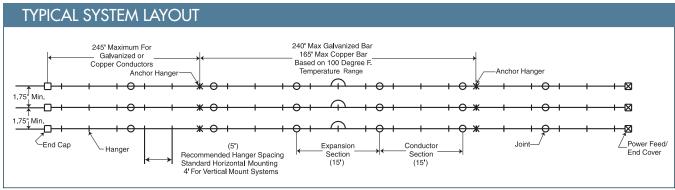
Example: FS-250P5 is a 250 Amp Electrobar FS Phase X 5'-0".

EXPANSION ELEMENTS

Our standard Electrobar FS expansion elements come in 15' lengths and include our PVC conductor bar cover and power feed covers. Expansions are completely pre-assembled, requiring only proper gap setting by the installer (refer to technical bulletin for gap setting data). Expansions may be installed in operating environments up to 160 degrees Fahrenheit.







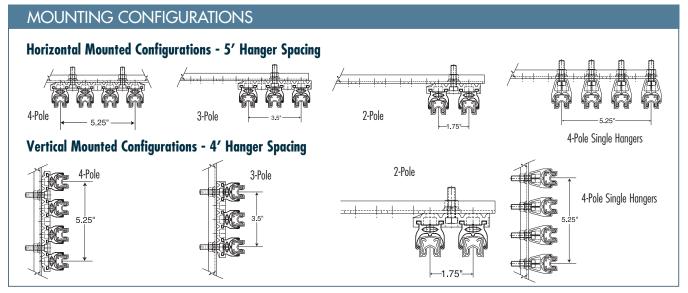
HANGERS

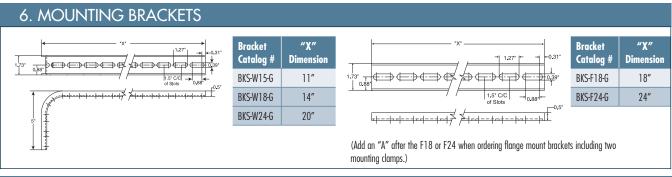
Electrobar FS multi-pole line element hangers have a modular, snap-in design for quick installation and ease of maintenance. Compression anchor hangers (US Patent #6588713) are available, eliminating the need for drilling.

A variety of configurations are available:

- Horizontal mount
- Vertical mount
- Modular hanger base for 2, 3 and 4 pole configurations
- Single plastic and steel hangers for special applications

3. HANGERS Weight Catalog Number Lbs. Kgs. **Description** FS-H4 4-Pole with 4 Snap-in Hangers 0.30 0.14 FS-H3 3-Pole with 3 Snap-in-Hangers 0.18 0.08 4-Pole Hanger FS-H3L 3-Pole with 3 Snap-in Hangers (Vertical Mount Only) 0.18 0.08 FS-H2 2-Pole with 2 Snap-in Hangers 0.13 0.06 FS-SH 0.05 Single Hanger 0.10 3-Pole Hanger FS-AH 0.14 **Anchor Hanger** 0.05 Anchor Hanger 0.10 0.05 FS-HST Steel Single Hanger FS-H Snap-in Hanger (Replacement) 0.03 0.01 2-Pole Hanger Snap-in Hanger





SYSTEM COMPONENTS

2. JOINT ASSEMBLY/JOINT COVER

90, 110, 125, 250 and 400 Amp



One joint cover and one joint assembly are required between each line element.

Catalog Number	Description	Weight		
Curalog Nomber	Description	Lbs.	Kgs.	
FS-JNTG	FS Joint Assembly Galvanized	0.10	0.05	
FS-JNTC	FS Joint Assembly Copper	0.08	0.04	
FS-JNCV	FS Joint Cover	0.05	0.02	
FS-JNJC	FS Joint Compound	0.30	0.14	

4. END POWER FEED

90, 110, 125 Amp



Power feed may be installed at the end of conductor bar line to feed power from one end of the conductor bar.

Catalog Number	Docarintian	Weight	
Caralog Number	Description	Lbs.	Kgs.
FS-PFA	End Power Feed	0.11	0.05

5. END COVER

90, 110, 125, 250 and 400 Amp



Required for installation at each end of the conductor bar system (required at only one end when end power feeds are used).

Catalog Number	Description	Weight		
	Description	Lbs.	Kgs.	
FS-END	FS End Cover	0.10	0.05	

2. ISOLATION JOINT ASSEMBLY/JOINT COVER

90, 110, 125, 250 and 400 Amp





One joint cover and one joint assembly are required between each element.

Catalon Number	Description	Weight		
Catalog Number	Description	Lbs.	Kgs.	
FS-JNIS	FS Isolation joint	0.09	0.04	
FS-JNCV	FS Joint Cover	0.05	0.02	

4. JOINT POWER FEED

90, 110 and 125 Amp





May be installed between any two line elements along the length of the system.

Catalon Number	Description	Weight	
Catalog Number	Description	Lbs.	Kgs.
FS-PFB	FS Joint Power Feed	0.15	0.07

4. JOINT POWER FEED

250 and 400 Amp





May be installed between any two line elements along the length of the system.

Catalon Number	Dosevintion	Weight		
Catalog Number	Description	Lbs.	Kgs.	
FS-PFC	FS Joint Power Feed	1.25	0.57	

8. TRANSFER CAP

90, 110, 125, 250 and 400 Amp





May be installed at switches or other breaks along the line where the collector shoe needs to transition between two conductor bar lines.

Catalog Number	Description	Wei	ght
	Description	Lbs.	Kgs.
FS-TCAP	FS Transfer Cap	0.08	0.04

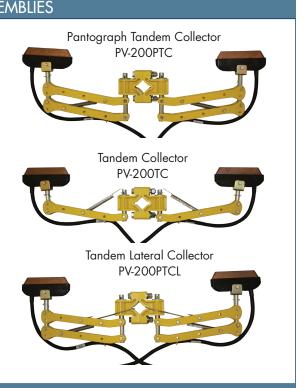
COLLECTOR ASSEMBLIES

Collector assemblies are designed to travel at speeds up to 900 ft. per minute using standardized components. Electrobar FS collectors feature an easy to install shoe assembly—simply insert the shoe and cotter pin and make the electrical connection. Our graphite impregnated copper contact shoes are designed for long life and minimal drag. Standard Electrobar FS collectors have a 100 or 200 Amp continuous current rating. Single or tandem collector shoe assemblies are available.



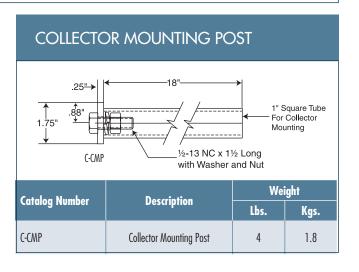
Single Arm					
Amma	Catalog Number	Description	Weight		
Amps		Description	Lbs.	Kgs.	
100 Amp	PV-100PC	Pantograph Collector	2.0	0.91	
100 Amp	PV-100C	Collector	1.8	0.8	
100 Amp	PV-100PCL	Lateral Collector	2.0	0.91	

For fixed mounting posts 3.50'' - 4.50'' from conductor bar running surface.



Tandem Arm				
Amma	Catalon Nambar	Description	Weight	
Amps	Caralog Number	talog Number Description		Kgs.
200 Amp	PV-200PTC	Pantograph Collector	4.0	1.8
200 Amp	PV-200TC	Collector	3.6	1.6
200 Amp	PV-200PTCL	Lateral Collector	4.0	1.8





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Project Management
Engineering Design
System Manufacturing and Testing
Field Startup, Testing, Training and Support
Customer Training and Maintenance Support
Application Solutions
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IMPULSE™ AC ADJUSTABLE FREQUENCY DRIVES

230, 460 and 575 Volt Power Platforms 0.25—1,500 HP Exclusive Application Software Specific Crane & Hoist Software

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DSD — AC in/DC out 15—800 HP DDC — DC in/DC out 5—500 HP

MAGNEPULSE™ DIGITAL MAGNET CONTROL

MAC™•2000 MOTOR ACCELERATION CONTROL

Single & 2 Speed — up to 15.2 Amps Contactor Panels

VARIABLE SPEED MOTOR CONTROL PANELS

Standard Pre-Engineered Systems Custom Engineered Systems

MOTORS & ACCESSORIES

Standard Inverter Duty AC Induction Motors Flux Vector Designed Motors

POWER DELIVERY SYSTEMS

ELECTROBAR® ELITE —20, 60, 100, 130, 200 Amps FABA® Conductor Bar Systems — 100 Amps ELECTROBAR® HX — 400, 700, 1000 Amps ELECTROBAR® FS — 90, 110, 125, 250, 400 Amps ELECTROBAR® 8-Bar — 90, 110, 350 Amps

ELECTROMOTIVE™ FESTOONING SYSTEMS

Standard Duty Heavy Duty Mill Duty

PENDANT PUSHBUTTON STATIONS

Standard, Custom and Wired

TELEMOTIVE & ENRANGE RADIO REMOTE CONTROL SYSTEMS

Flex EX
Flex Pro
telePendant™
300T
Pendant™
telePilot™
100T
PGT
DTX
MLTX™
MLTX2™
SLTX™
700T

Locomotive Control Systems

COLLISION AVOIDANCE SYSTEMS

LaserGuard™ ReFlx™

JLTX™

MONDEL BRAKES 2005 Industrial Shoe Brakes

4"-19" Diameter 6-2,250 Lb. Ft. Torque AC, DC, Hydraulic Actuators AC Explosion Proof Actuators

AIST-NEMA 300M Mill Duty Shoe Brakes

5"—30" Diameter 10—11,000 Lb. Ft. Torque AC, DC, Hydraulic Actuators AC Explosion Proof Actuators

400D Heavy Duty Disc Brakes

8"–50" Diameter 50–30,000 Lb. Ft. Torque AC, DC, Hydraulic Actuators AC Explosion Proof Actuators

Braketronic[™] Control System

Braketronic Controller Standard Pre-engineered Panel Mill Duty Foot Pedal (optional)

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MH318_FS Brochure

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