

Electromotive Systems

ELECTROBAR® HX
Conductor Bar System



MAGNETEK  **UNCOMMON POWER**

ELECTROBAR® HX-Series Enclosed Conductor Bar Systems

When you need high amperage power delivery for a heavy duty application, Electromotive Systems' ELECTROBAR® HX-Series Enclosed Conductor Bar System is the solution.

- ELECTROBAR HX Systems can accommodate 600 Volt AC and 250 Volt DC applications.
- Line elements are available to deliver 400, 700, 1000 and 1500 amps continuous current.
- Rated for use in environments up to 160° F ambient temperature.
- Aluminum alloy extruded line elements with stainless-steel lined contact surface provide better performance and increase durability.
- Inverted V contact surface for positive tracking of collective shoes.

Contact Electromotive Systems at 1-800-288-8178 or visit www.electromotive.com for more information.

Line Element Sections



Line elements are constructed of an aluminum alloy extrusion with integral stainless steel contact surfaces. They are available in convenient 10 or 20 foot sections. All line elements are amply designed to carry the specified current rating continuously without overheating.

Description	Catalog Number			
	400 Amp	700 Amp	1000 Amp	1500 Amp
Line Element Section, 20 feet long	HX-400A	HX-700A	HX-1000A	HX-1500A
Line Element Section, 10 feet long	HX-400A10	HX-700A10	HX-1000A10	HX-1500A10
Approximate shipping weight	1.5 lbs./ft.	2.5 lbs./ft.	3.5 lbs./ft.	6.0 lbs./ft.

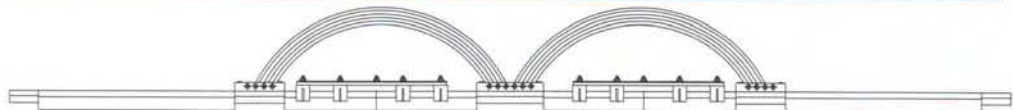
Expansion Elements

Expansion sections are used at all structural expansion joints and for long runways to allow for thermal expansion of the conductor bar.

A 10 foot long expansion section is required for every 300 feet of conductor run.

For example, a 600 foot long installation would require an expansion section only in the center of the run.

Anchor pins are included with each expansion section.



Description	Catalog Number			
	400 Amp	700 Amp	1000 Amp	1500 Amp
Expansion Section, 10 feet long	HX-400E	HX-700E	HX-1000E	HX-1500E
Approximate shipping weight	15 lbs.	25 lbs.	35 lbs.	60 lbs.

Joint Kit



Join Kit connection assemblies are available to assure full current carrying capacity without interfering with free travel of collector contacts. The joint assembly is designed to automatically align conductor bar sections during installation. Fastening hardware ensures a good, tight electrical and mechanical joint between conductor sections. The joint assembly kit includes the insulating joint cover.

Description	Catalog Number			
	400 Amp	700 Amp	1000 Amp	1500 Amp
Joint Assembly Kit	HX-400JK	HX-700JK	HX-1000JK	HX-1500JK
Approximate shipping weight	1.5 lbs.	2.0 lbs.	3.0 lbs.	4.0 lbs.

Hanger Assembly



Polycarbonate
Snap-In Hanger



Steel Hanger



Insulator Hanger

To provide an additional level of insulation, as well as rigid support of conductor sections, choose from polycarbonate snap-in, steel clamp, or insulated hanger assemblies. Hanger assemblies accommodate a minimum conductor spacing of 4 inches.

Line Element Rating	Catalog Number		
	Polycarbonate Snap-In Type	Steel Clamp Type	Insulator
400 Amp	HX-400H	N/A	N/A
700, 1000, 1500 Amp	HX-1000H	HX-1000SH	HX-1000SHI
Approximate shipping weight	.2 lbs./3 lbs.	.6 lbs.	1.20 lbs.

Power Feed Kit



The Power Feed Kit includes a joint assembly and cable terminals for power connection.

System Rating	Catalog Number	Approximate Shipping Weight
400 Amp	HX-400FK	.8 lbs.
700 Amp	HX-700FK	2.4 lbs.
1000 Amp	HX-1000FK	3.2 lbs.
1500 Amp	HX-1500FK	4.0 lbs.

End Cover



This vinyl cover insulates the conductor bar at each end of a system.

Description	Catalog Number	Approximate Shipping Weight
End Cover for 400 Amp	HX-400EC	.7 lbs.
End Cover for 700, 1000, 1500 Amp	HX-1000EC	1.0 lbs.

Mounting Bracket



Web mounting brackets are available in 24 inch lengths with mounting holes punched every two inches. Mounting hardware is included.

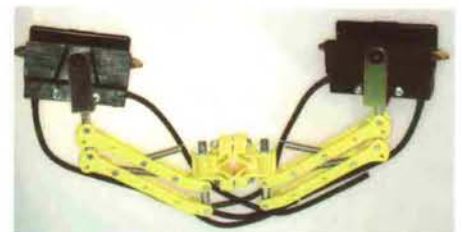
Description	Catalog Number
Web Mounting Bracket, 24 inch	BK-HX24
Approximate shipping weight	3.7 lbs.

Collector Assemblies

Collector assemblies are offered in single or double shoe designs. They provide continuous current pick up from 200 through 400 amperes. The contact shoes are mechanically supported by an insulating support assembly that is spring loaded by an arm and body mechanism. Collectors are furnished with copper graphite contacts for movement up to 900 feet per minute.



Single Shoe Collector



Double Shoe Collector

Collector Type	Catalog Number	Approx. Shipping Weight
200 Amp Single Shoe	PHX-200SPC-A	.7 lbs.
400 Amp Double Shoe	PHX-400STPC-A	1.0 lbs.