Heavy Duty Conductor Systems
Manufactures the Delta Star/HK Porter line of engineered conductor line systems
- V Bar Systems
- C Bar Systems
- HJ Bar Systems
- H Bar Systems
- HC Bar Systems
- HV Bar Systems
- Transductor systems
- Custom Engineering

Enclosed Conductor Systems
Light amperage conductor systems & replacement parts
- Multiconductor
- Productor
- RediBar
- Customized curved systems are available

Current Collectors
TransTech designs & manufactures a variety of current collectors
- Arm Type Collectors
- Pantograph Collectors
- Cross Arm Collectors
- Shoe Type Collectors
- Collector Contact Members

Electrified Rail Components
A diverse collection of electrified rail components
- Insulators
- Rail Support Components
- Trolley Wire Components

Cable Reels & Slip Rings
Stemmann-Technik’s slip rings & cable reels.
Cable Reels
- Monospiral & Cylindrical
- Motorized & Spring Driven
- Industries: Ports, Mining, Technology & more
Slip Rings
- Standard & Customer Specified
- Industries: Ports, Mining, Wind, Robotics & more

Up to 7 Conductors in a Safe, Compact Design
Highly Configurable
Easy to Order
Quick Delivery
Fast Installation Using Common Hand Tools

Moving Electrification Forward

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11.2016

Stemmann Technik
Germany, Poland, Netherlands

TransTech
A Wabtec Company

AKAPP-Stemmann
Netherlands

Moving Electrification Forward
Features

- Ready-to-install enclosed copper conductor bar system with pre-assembled rail, hangers, splices and feeder
- Allows up to 7 conductors within a safe, compact enclosure
- Trolley-style current collector integrates all conductors into a single low-maintenance unit
- Fast and simple field installation: a single nut for each conductor is all that is required to securely join conductor bar sections
- Flexible feeder design can be located anywhere on the system
- Curved sections can be produced with a radius as small as 800mm in both the vertical and horizontal axes
- Optional sealing strip available to reduce dust and moisture intrusion (IP24 rating)
- Isolation/maintenance sections available

Specifications

- Standard 4-pole copper conductor configuration (3 phases plus ground)
- Up to 600 volt (AC and DC) and 480 amp capacity configurations
- 64, 100, 160 and 240 amp 3-phase plus ground
- 320 and 480 amp achieved with parallel phase conductors plus single ground (1/2 amperage ground)
- 4 meter, 2 meter and 1 meter standard bar lengths, custom lengths available
- Standard isolation section available
- Custom conductor configurations possible
- Temperature range: -22°F to 158°F continuous

Configuration is Easy

Configuring a REDI-BAR system is very easy and can be completed with only basic information regarding the input power requirements and conductor bar length.

STEP ONE: REDI-BAR System Selection

1. Select the appropriate chart below based on the power requirements of your crane, 480VAC or 250VDC (for other power systems, please contact TransTech for assistance)
2. On the vertical axis of the chart, plot your maximum current load
3. On the horizontal axis, plot your system length in meters (1 meter = 3.3 feet);
   if longer than 200 meters, please contact TransTech
4. Note the colored region where these two plots intersect; this determines which REDI-BAR series is required

STEP TWO: Determine Required Components

1. Once the REDI-BAR series is determined, select a 4m Starter Kit
   A. For 64 or 100 series REDI-BAR systems:
      - If an end power feed is required
        select the End Feed Starter Kit
      - If the feed point is located elsewhere on the system, select the Line Feed Starter Kit
   B. For 160 to 480 series REDI-BAR systems, select the Line Feed Starter Kit (which can also be used as an end feed)
2. Determine the number of Add-on Kits required based on length; the total of all Add-on Kits should be 4 meters less than the desired system length since the Starter Kit is 4 meters long
   A. For example, for a 23 meter long system, 19 meters of Add-On Kits are required:
      - 4m Add-on Kit (quantity 1 required)
      - 2m Add-on Kit (quantity 1 required)
      - 1m Add-on Kit (quantity 1 required)
3. Determine the number of trolley collectors required to carry the current load by dividing the required current load by the collector current capacity from the chart and rounding up
   A. For example, for a 90A current load using 100 series REDI-BAR, three 40A trolleys are required
      (90 ÷ 40 = 2.25, round up to 3)