

Conductor Bar RFQ Data Fax to: 402-896-9474 Email to: <u>info@kistlerequipment.com</u>

Contact name	Date
Phone	_ Company
Fax	_Address
E-mail	City, State, Zip
APPLICATION 1. Application Type: Runway Bridge 2. New approved installation? Ext 3. System Length:(feet 4. Total # of Conductors:Will one	e Monorail Other end Existing Replacement) conductor be designated as a ground? YesNo
ENVIRONMENTAL DATA Describe the environment where the co 1. IndoorsOutdoorsBoth 2. Ambiant temperature range: Minimum 3. Will a heater wire need to be included 4. Is there a source of corrosion present If yes, describe the corrosive: 5. Other environmental issues (dust, etc.	nductor system will be located: n Indoors & outdoorsOutdoor & Ice m Maximum (deg F) d? Yes No ? Yes No
MECHANICAL DATA 1. Vehicle Speed(feet per m 2. Number of vehicles or trolleys: 3. Will Conductor Bar Systems be supply 4. Does the system include any curves? 5. Other mechanical considerations:	in.) Duty Cycle: Crane Class (if applicable): /ing mounting brackets? YesNo YesNo
ELECTRICAL SPECIFICATIONS 1. Number of power feeds: 2. Location of power feeds (check all tha Distance power feeds will be from end of 3. Number of power phases: 4. Total current draw:(sum of all vehicle 5. Demand Factor(typically 0.9 6. Operating Frequency(Hz -	at apply) Center Multiple End of system: Operating voltage:(V) AC DC s)Amps)) – U.S. is 60 Hz)

Appendix I - Selection of Systems

• Intermittent Duty -

Assumes that the current is "on" for a period of time and "off" for a period of time; i.e.: one "duty cycle". The conductor is allowed to cool between "on" phases. A 50% duty cycle is most common – i.e.: one minute on and one minute off. Since a crane cannot lift continuously, nor is current flowing at maximum for long periods of time, most operate at a 40% duty cycle or less. So a 50% duty cycle is sufficient. However, cranes that see heavy duty, especially Class D and E cranes (see end of this Appendix), may push the conductor beyond a 50% intermittent duty rating.

• Collector Electrical Capacity –

A limited selection of collector capacities is available, since collectors only power the crane/vehicle they service. Additional collectors can be used if the crane/vehicle load exceeds the collector rating. Note that the load will not be shared equally among multiple collectors. The collector closest to the power feed will carry a larger load than those farther down the line. So when using multiple sets of collectors, make sure the collector capacities are adequate for this scenario.

CMAA Crane Classifications Provided for general information only.

• Class A (Standby or Infrequent Service) Performs precise lifts at slow speed, with long idle period between lifts. Performs lifts at full or near rated capacity. Power houses, public utilities, turbine rooms.

• Class B (Light Service) Light service requirements at slow speed. Performs 2 to 5 lifts/hour, light to occasional full loads, at 10 ft. average height. Repair shops, light assembly, service buildings, light warehousing.

• Class C (Moderate Service) Moderate service requirement with loads averaging 50% of capacity. 5 to 10 lifts per hour at 15 ft. average lift height. Not more that 50% of lifts at rated capacity. Machine shops, paper mill machine rooms, etc.

• Class D (Heavy Service) Bucket/magnet duty, where heavy duty production is required. Loads of 50% capacity handled constantly. 10 to 20 lifts per hour averaging 15 ft. lift height. Not over 65% of the lifts at rated capacity. Heavy machine shops, foundries, fabricating plants, steel warehouses, container yards, lumber mills, etc.

• Class E (Severe Service) Loads approaching capacity throughout the life of the crane. 20 or more lifts per hour at or near rated capacity. Magnet/bucket cranes for scrap yards, cement mills, lumber mills, fertilizer plants, container handling.

• Class F (Continuous Severe Service) Handles loads approaching capacity continuously under severe service conditions throughout the life of the crane. Includes custom designed specialty cranes performing work critical to the total production facility. Needs to have the highest reliability and ease of maintenance.