



Crane Control. What we do. All we do.



DC Crane Control

- Provides multi-speed control of crane hoist, bridge, and trolley drives
- Available in three rugged technologies:
 - DC electro-mechanical contactor control
 - DC to DC digital control
 - AC to DC shunt motor control
- Available horsepower range through 500HP
- Standard configurations available, but our application staff can engineer to meet specific customer requirements



AC Crane Control

- Provides multi-speed control of crane hoist, bridge, and trolley drives
- Available in two technologies:
 - AC electro-mechanical contactor control
 - ENDEAVOR™ AC adjustable frequency drive control systems
- Available horsepower range through 300HP
- Standard configurations available, but our application staff can engineer to meet specific customer requirements



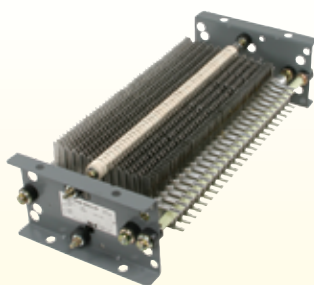
LINE-ARC® DC and AC Contactors

- Mill duty construction
- Completely front connected
- High strength glass polyester insulating base for steel base mounting
- Line-Arc® method of arc extinction for longer tip life
- Easy parts replacement
- Ratings through 1350A, 600 volts



Magnetic Drum Brakes

- Spring set, electrically released
- Series and shunt coils for DC systems
- Rectifier operated coils for AC systems
- Torque ratings — 100 to 9,000 lb.ft. (135 to 12,200 Nm)
- Available sizes — 8" to 30" (20cm to 76cm)
- Meets AIST and NEMA standards and suitable for all crane classes
- Self-adjuster option recommended for improved lining wear and reduced maintenance



TAB-WELD® Resistors

- Used in motor circuits to control acceleration speed and dynamic braking
- Available in continuous ampere ratings from 13A to 500A
- Suitable for severe environmental conditions and duty cycles
- Available as individual sections, or mounted in open rack, NEMA 1 or NEMA 3R enclosures



YOUNGSTOWN® Power Limit Switch

- Limits hoist over-travel on AC and DC cranes
- Ratings through 500HP at 230VDC, 400HP at 460VAC
- Suitable for use with AC frequency drives



The Electric Controller and Manufacturing Company, LLC

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Solid State Magnet Control

- Protects magnet from overheating and overvoltage
- Works with all magnets up to 500A cold current
- Graphic touchscreen interface
- Simple menu for magnet setup



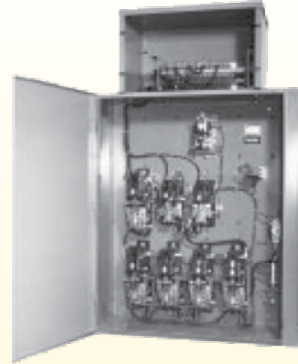
Contactor Magnet Control

- For use with steel mill and scrap yard cranes
- Auto discharge control provides quick, clean release of magnet load
- Pushbutton or master switch operation
- For use with rectifier or generator-powered magnets
- Ratings through 350A at 230VDC



Auxiliary Equipment

- Master Switches
 - VM — for floor or in-console mounting
 - CM — for table mounting
- AC and DC Current Overload Relays
 - DC continuous current through 3,000A
 - AC continuous current through 1,440A
- DC Mill Duty Relays
 - Current or voltage sensing
 - 600VDC rated
- Mill Control
 - DC ratings through 500HP
 - AC contactor and AFC drives



DC Reduced Voltage Starters

- For DC shunt or compound motors
- Emergency lube oil pump starters for turbine and generator protection
- General purpose starters



Original Replacement Parts and Modification Kits Manufactured by EC&M

- Available for wide range of EC&M (and former Square D® Crane Control) brand products including:
 - DC coils for contactors and relays
 - Copper and silver contact tip kits
 - Electrical interlocks, arc suppressors, tie bars, etc.
- Provides optimum equipment operation

EC&M Crane Control

EC&M Crane Control has always been in a class by itself. Today, EC&M's rugged and reliable products are keeping hundreds of heavy-duty cranes on the job. When you are looking for time-tested know-how and reliability, look no further than our complete line of crane control, auxiliary equipment and original replacement parts.



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