

Electrical solutions for cement production
Line card

Mix in the savings

Solutions for cement production



Quarry



Raw mill



Kiln and refractory



Mill and packaging plant

Energizing a world that demands more.

Today, Eaton products are energizing the world to maximize uptime and improve cost and energy efficiency while keeping people and property safe.

We're energized by the challenge of powering a world that demands more. With more than 100 years of experience in electrical power management, we have the expertise to see beyond today. From groundbreaking products to turn-key design and engineering services, the cement industry counts on Eaton solutions to improve their operations.



Powering Business Worldwide

Electrical products and services

PH: (877) ETN CARE

trc@eaton.com

Associated product lines

- Integrated power assemblies
- Medium- and low-voltage switchgear
- Medium- and low-voltage motor control centers
- Capacitor banks, filters and voltage regulators
- Medium- and low-voltage drives
- Power and distribution transformers/busway
- Uninterruptible power supplies
- Meters and relays
- Electrical services

Eaton's power systems business

PH: (877) 277-4636

cps-info@cooperindustries.com

Associated product lines

- Medium-voltage switchgear
- Overhead distribution equipment
- Capacitor banks and filters
- Voltage regulators
- Arresters
- Medium-voltage transformers
- Cable accessories
- Controls and relays
- Smart fault indicators
- Medium-voltage fusing
- Engineering services

Wiring devices

PH: (866) 853-4293

custserv@cooperwiringdevices.com

Associated product lines

- Wireless and instrumentation
- Water-tight connectors
- Wall outlets
- SmartwireDT

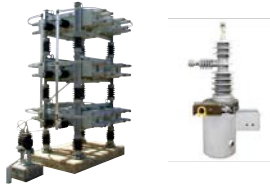
For more information about our products and solutions, visit:

Eaton.com/Mining



Integrated power assemblies (E-houses)

- Turnkey engineered
- Mobile substations
- Mobile capacitor banks
- Factory acceptance testing, field commissioning



Capacitor banks, filters and voltage regulators

- Low-voltage capacitor solutions
- Medium-voltage capacitor solutions
- Passive and active filters
- Medium- and low-voltage regulators



Uninterruptible power supplies

- Engineered solutions
- Three-phase and single-phase
- FERRUPS voltage regulating
- ANSI and IEC configurations



Wireless and instrumentation

- Wireless I/O systems
- Remote control belly packs
- Isolation barriers
- Surge suppression



Medium- and low-voltage switchgear

- Metal-clad medium-voltage switchgear to 38 kV, 3000 A
- Metal-enclosed low-voltage switchgear to 600 V, 6000 A
- Integral motorized breaker racking
- ANSI and IEC, arc classified option



Medium- and low-voltage drives

- Medium-voltage ratings to 4160 V, 6000 hp, optional 15 kV input
- 24-pulse 2.4 kV and 4.1 kV with encapsulated technology
- Low-voltage ratings to 690 V, 2200 hp
- 6- and 18-pulse converter
- IEEE® 519 harmonic compliance



Meters and relays

- Revenue grade energy monitors
- Panel meters
- Motor and feeder protective relays
- InsulGard partial discharge relays



Electrical services

- Arc flash studies
- Power system studies
- Life cycle extension services
- Energy management services
- Site testing and commissioning
- Turnkey project services



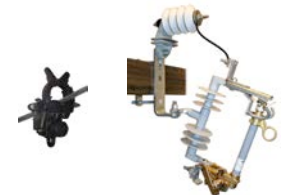
Medium- and low-voltage motor control centers

- Medium-voltage ratings to 13.8 kV, 800 A
- Low-voltage ratings to 600 V, 3200 A
- Standard, arc-resistant and arc-preventative designs
- ANSI/NEMA® and IEC certified



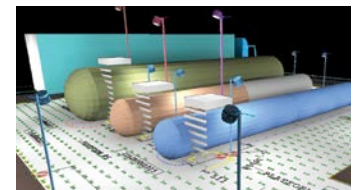
Power and distribution transformers/busway

- Liquid-filled to 12 MVA (ANSI)
- Non-segregated medium- and low-voltage busway
- FR3 environmentally-friendly fluid
- NEMA 4X Class I Division 2 hazardous location transformer



Overhead distribution equipment

- Single- and three-phase reclosers
- Overhead cutouts
- Grid Advisor™ Series II smart sensor
- Single- and three-phase switches



Design tools and services

- Lighting layout and design services
- Custom SKU-level 2D and 3D models for integration into design software
- Custom SKU-level specification sheets
- CYME™ power engineering software

Electrical products & bulk materials



Lighting solutions

- LED, HID, incandescent and fluorescent
- Types: Flood, task, high bay, wall pack, area and roadway
- Application: Indoor, outdoor, industrial, harsh, hazardous areas
- ANSI and IEC configurations



Conveyor control and pushbutton stations

- Conveyor pull switch
- Pushbutton and control station
- Conveyor belt alignment switch
- Industrial and hazardous areas
- ANSI and IEC configurations



Enclosures

- Junction boxes and enclosures
- Stainless steel, aluminum, fiberglass, steel iron
- Instrument housings
- Industrial- and commercial-grade enclosures
- Hazardous rated versions available
- ANSI and IEC configurations



Cable ladder systems

- Aluminum, stainless steel, galvanized steel and FA series fiberglass material options
- Strut systems, fittings and accessories



Mechanical solutions

- GripStrut® slip-resistant walkways
- Limberoller conveyor idlers
- Telescoping light poles



Signal and alarms

- Beacons and strobes
- Fire detection and alarms
- Mass notification systems
- ANSI and IEC configurations



Plugs, receptacles and connectors

- Welding receptacles
- Industrial, harsh, hazardous areas
- Molded to cable
- Passive connectivity
- ANSI and IEC configurations



Power connectors

- IEC 309 industrial pin and sleeve devices
- Medium-voltage load-break and dead-break connectors (ANSI and IEC)
- Industrial, harsh, hazardous areas



Cable and conduit wiring solutions

- Industrial fittings
- Cable glands
- Hub reducers, adapters and accessories
- Industrial, harsh, hazardous areas
- ANSI and IEC configurations



Low-voltage distribution

- Panels (ANSI and IEC)
- Safety switches (ANSI and IEC)
- Dry type distribution (ANSI)
- Control power transformers (ANSI and IEC)
- Industrial, harsh, hazardous areas



Circuit breakers

- Vacuum to 38 kV
- Low-voltage power circuit breakers
- Molded-case industrial breakers
- ANSI and IEC configurations



Power and control fuses

- Medium-voltage expulsion and current limiting
- Low-voltage power
- Control fuses
- ANSI and IEC configurations

Eaton's Crouse-Hinds business

PH: (866) 764-5454

crousecustomerctr@eaton.com

Associated product lines

- Lighting solutions
- Plugs, receptacles and connectors
- Power connectors
- Cable, conduit and wiring solutions
- Hazardous area communications
- Signals and alarms
- Conveyor controls and pushbutton stations
- Mechanical solutions
- Design tools and services
- Local control stations
- Instrumentation

Eaton's B-Line business

PH: (800) 851-7415

blineus@cooperindustries.com

Associated product lines

- Cable ladder systems
- Strut and fasteners
- Enclosures
- Safety walkway grating
- Design tools and services

Eaton's lighting business

PH: (770) 486-4800

talktous@cooperindustries.com

Associated Product Lines

- Industrial lighting
- Indoor and outdoor fixtures
- Design tools and services

Eaton's Bussmann

PH: (636) 394-2877

fusebox@cooperindustries.com

Associated product lines

- Power and control fuses
- Wireless solutions

For more information about our products and solutions, visit:

Eaton.com/Mining



Energizing a world that demands more.

We deliver:

- **Electrical solutions** that use less energy, improve power reliability and make the places we live and work safer and more comfortable
- **Hydraulic and electrical solutions** that enable machines to deliver more productivity without wasting power
- **Aerospace solutions** that make aircraft lighter, safer and less costly to operate, and help airports operate more efficiently
- **Vehicle drivetrain and powertrain solutions** that deliver more power to cars, trucks and buses, while reducing fuel consumption and emissions

Discover today's Eaton.

Powering business worldwide

As a global power management company, we help customers worldwide manage the power needed for buildings, aircraft, trucks, cars, machinery and businesses.

Eaton's innovative technologies help customers manage electrical, hydraulic and mechanical power more reliably, efficiently, safely and sustainably.

We provide integrated solutions that help make energy, in all its forms, more practical and accessible.

With 2015 sales of \$20.9B, Eaton has approximately 100,000 employees around the world and sells products in more than 175 countries.

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Powering Business Worldwide

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