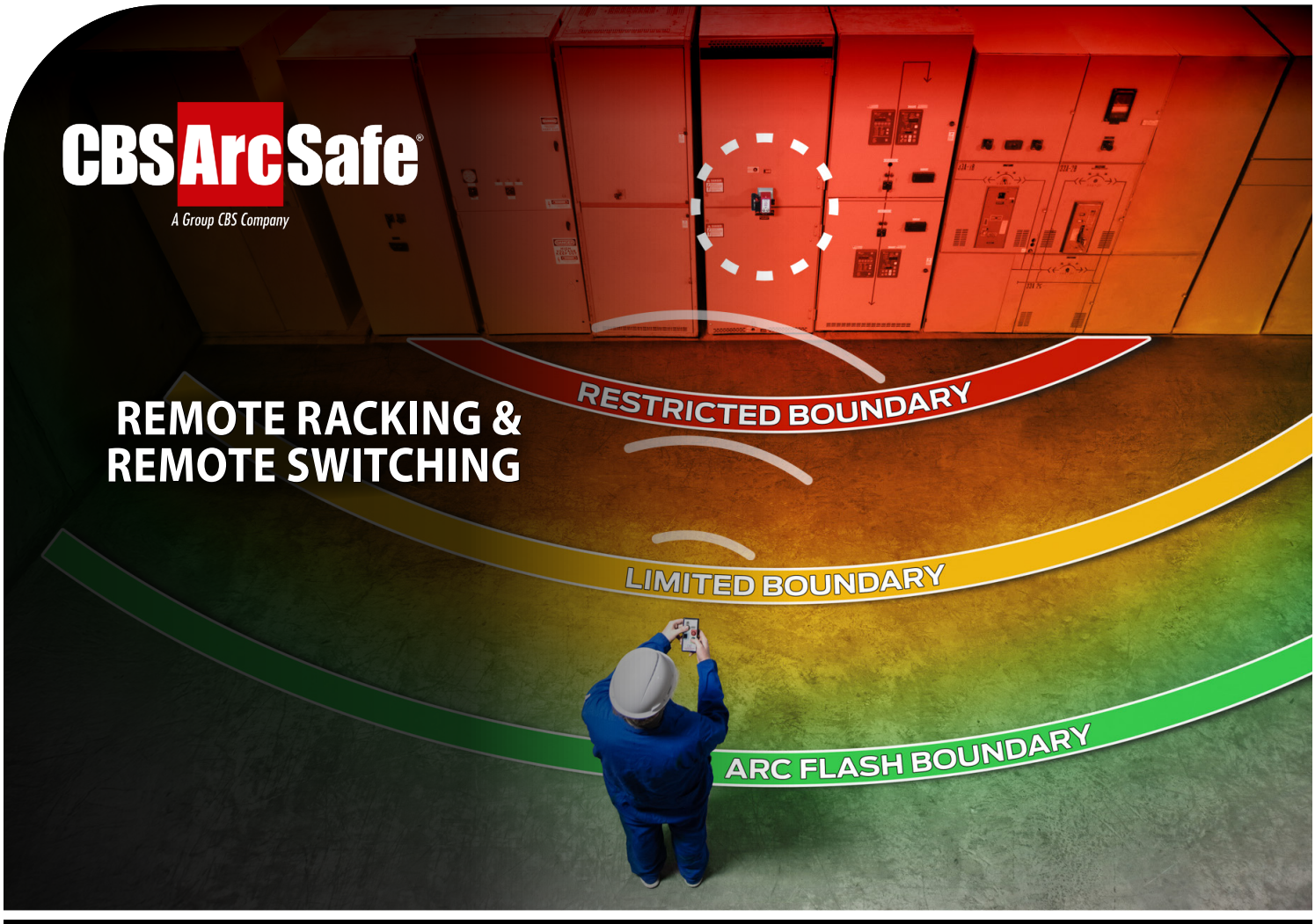
CBS ArcSafe®

A Group CBS Company

REMOTE RACKING & REMOTE SWITCHING



Distance is Safety®

WHAT STANDS BETWEEN YOU AND ARC FLASH DANGER?

WE DO.





CBSArcSafe.com

877-4-SAFETY | 877-472-3389

Highlighted Products

See our remote switching and racking solutions for these common apparatus

AB Centerline 2100

Technology Partner
A ROCKWELL AUTOMATION PARTNER

Allen-Bradley motor control centers outfitted with the Secure Connect feature can be remotely racked using our award-winning SecureConnect portable solution. Vintage gear is racked with the Remote Racking System (RRS-2-BE); switching operations are achieved through Remote Switch Kits (RSK-ABL1 or RSK-ABL2).



Centerline 2100

Breaker Control Switch

Breaker Control Switch operations are enabled by the Remote Switch Kit (RSK-CS series), which includes actuator, handheld controller, case, and more.



RSK-CS01

Magnum DS/SB

Eaton/Cutler-Hammer MDS/SB low-voltage circuit breakers can remotely charge/close/trip using the Remote Switch Actuator (RSA-48). The Remote Switching Kit (RSK-MDS30) handles close/trip applications. Racking can be done remotely with the RRS-3-MDS or with built-in video with the RRS-3-MDSR1.



Magnum DS/SB

Load Break Switches

Many common load break switches can be remotely actuated using one of our popular Remote Switch Actuators, including the RSA-147, RSA-116, and RSA-116A.



Load Break Switches

DS/DS II

Cutler-Hammer/ Westinghouse/Square D DS-line air circuit breakers can be remotely racked using the portable Remote Racking System (RRS-3-DSR1 or RRS-3-DS). Full charge/ close/trip operations are covered by the Remote Switch Actuator (RSA-12A). Close/trip operations are provided by the Remote Switching Kit (RSK-DS10).



Operational Video

Masterpact NW

Merlin Gerin/Square D Masterpact NW ICCB can be remotely racked in/out while using the Remote Racking System (RRS-3-NW). Full charge/ close/trip operations are covered with the Remote Switch Actuator (RSA-120), while the Remote Switching Kit (RSK-NW20) covers only close/trip operations.



Masterpact NW

Molded Case Circuit Breakers

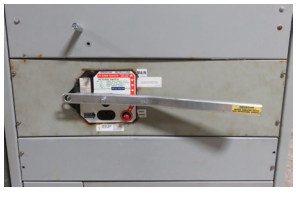
Many common MCCBs, from 10 A to 3000 A, can be remotely actuated using one of our Remote Switch Actuators, including the RSA-113G, RSA-164K, and RSA-20F.



Molded Case Breakers

Pringle Switch

Pringle Switches with and without a push-button shunt trip can be remotely actuated using the Remote Switch Actuator (RSA-135 Series).



Pringle Switch

RRS-1

Our Universal Remote Racking System (RRS-1) offers an industry-leading number of solutions for rotary-style switchgear. This unit is designed for removing or inserting low- and medium-voltage draw-out rotary circuit breakers while the operator remains outside the arc-flash boundary.



RRS-1 Operational Video

CBS ArcSafe®

A Group CBS Company

CBS ArcSafe products keep technicians outside of the arc-flash hazard boundary while performing potentially dangerous electrical tasks. With the largest selection of remote switching and racking solutions available, we are the industry leader in electrical remote operations. As a Group CBS Company, CBS ArcSafe provides you access to the industry's largest inventory of low- and medium-voltage switchgear. We have parts, on-site service, comprehensive repair, and "need-it-now" delivery capabilities.

We take pride in being available and capable of responding anytime, anywhere.

- Largest selection of remote switching and racking equipment for low- and medium-voltage circuit breakers, motor control centers, and other applications.
- On-site demonstrations, training, and in-depth site evaluations provided by our Product Specialists and Group CBS affiliates.
- Equipment Training: OEM training by CBS ArcSafe is included in the purchase of select equipment. For existing customers, we recommend OEM retraining every three years and/or as staff attrition occurs. **2021 NFPA 70E Article 110.6(3)** states that retraining in safety-related work practices shall be performed at intervals not to exceed three years. In addition to training, you can visit our CBS ArcSafe YouTube channel for demonstration videos for a variety of devices.

For after-hours or emergency support, contact us 24/7 via our emergency phone number: (877) 472-3389.

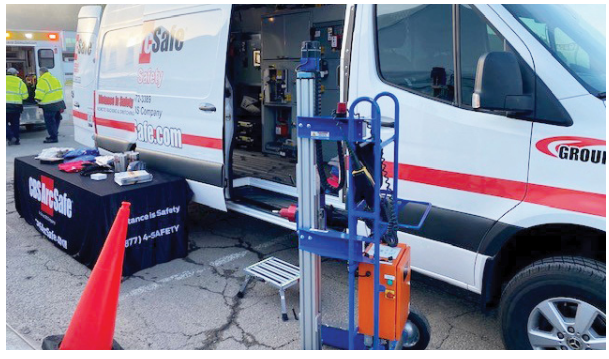
Assistance is also available from other Group CBS companies, which are listed on the back cover. We continue to develop new solutions for our customers on a daily basis. If you do not see what you need in our catalog, give us a call.



CBS ArcSafe Facilities

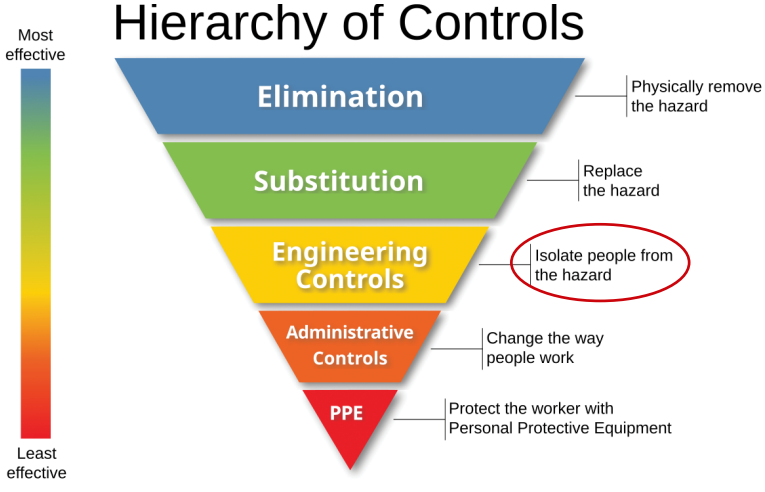
All CBS ArcSafe equipment is manufactured in the United States at our Denton, TX headquarters, ensuring the highest quality components and systems. Our capabilities include production at scale and custom solutions to meet specific customer design requirements.

Capabilities include product engineering, SolidWorks/CAD design, CNC milling, 3D printing, programming, and water jet and laser cutting.



NFPA 70E compliance

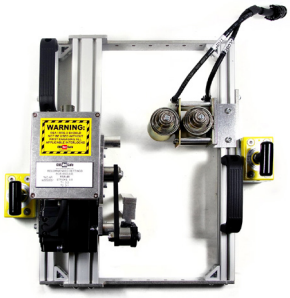






Remote Switch Actuators (RSA)

CBS ArcSafe® Remote Switch Actuators (RSAs) are designed to remotely charge, close, and/or trip various styles and types of electrical equipment. An RSA can be custom built for any electrical device. RSAs are quickly attached by strong magnets, eliminating the need for modifications to your switchgear. This results in safe and efficient operations. Magnets also allow workers to easily move the RSA from one application to another.



RSA-48
Eaton, Cutler-Hammer Magnum DS, SB (Door Closed, 800-4000 A)



RSA-113G & RSO-IAR-M18 Operator

OPTIONAL FEATURES

- Radio remote with up to 300-foot range
- Wireless video camera system with LCD monitor
- Rugged protective case assembly

BENEFITS

- Lightweight, portable construction
- Mechanical and/or electrical safety protection
- Adjustable to fit unique electrical equipment configurations
- Fast and easy to set up
- Reduces need for a full-body arc-flash suit
- Adds safety and helps comply with NFPA 70E
- No modifications required

Remote Switch Kits (RSK)

Chicken Switch® Remote Switch Kits (RSK) are portable devices designed to remotely operate circuit breakers, control switches, and motor control centers. RSKs are ideal in environments where weight and portability are a consideration. With no need to purchase a separate power source, the price point and packaging are appealing.

- Complete kit includes actuator, handheld controller, batteries, control cable, instruction manual, and carrying case **RSK only*



RSK-CS01
Electroswitch Series 24, 24P, General Electric SB, SBM, SB-1, SB-9, SB-10, Westinghouse Type W, Shallco Series 26



RSK-K15
ABB, BBC, ITE K-Line (2000 A & below, Electrically Operated)



RSK-GEPB1L
PowerBreak (with Close button on left side of charging handle)



RSK-DS10-W
Cutler-Hammer, Square D, Westinghouse, Eaton DS, DSII, DSL, DSLII

POWERED BY M18 REDLITHIUM

RSK-CS01

**Wireless control available on most models.*

All CBS ArcSafe products are compatible with all switchgear manufacturers, including:

- ABB
- Allis-Chalmers
- Alstom
- BBC
- Cutler-Hammer
- Eaton
- Federal Pacific Electric
- Federal Pioneer
- General Electric
- Hyundai
- ITE
- McGraw-Edison
- Merlin Gerin
- Mitsubishi
- Powell
- Reyrolle
- Siemens
- Siemens-Allis
- Square D
- Toshiba
- Westinghouse

NOTE: All manufacturers' names, trademarks, and part numbers are used for reference purposes only. CBS ArcSafe, Inc. is not an authorized distributor or representative of manufacturers shown. Designated trademarks, brand names and brands appearing herein are the property of their respective owners.

RRS-1 Remote Racking System
For Rotary Circuit Breakers



RRS-1 Operational Video

By permitting the automatic racking of the circuit breaker from a remote location, the CBS ArcSafe® remote racking system replaces the manual racking operation and removes the operating personnel from manual contact with the circuit breaker. The unique design of the CBS ArcSafe remote racking system, with its specially manufactured drive shafts and tooling, enables the system to operate with all types of circuit breakers produced by the major switchgear manufacturers. The CBS ArcSafe remote racking system can operate with draw-out types of air, SF6, oil, and vacuum circuit breakers that have either a horizontal or vertical racking operation.

BENEFITS

- Remote operation places operator outside the arc-flash protection boundary
- Compatible with low- and medium-voltage circuit breakers produced by all major switchgear manufacturers
- Use with horizontal and vertical types of air, SF6, oil, and vacuum circuit breakers
- Height and angle of the drive is easily adjusted
- Quick-release drive shafts and couplings simplify setup
- Redundant over-racking protection provided
- Seamless transfer of AC/DC power
- Hand-truck design provides easy mobility

SPECIFICATIONS

WEIGHT . . .	200 lbs
BATTERY LIFE . . .	> 50 Operations*
SYSTEM VOLTAGE . . .	24V DC
INPUT VOLTAGE . . .	120±10% VAC, 47-63 Hz†
MAXIMUM AC CURRENT . . .	12.2 A
DRIVE MOTOR POWER . . .	250 W
DRIVE ASSEMBLY SPEED . .	80 RPM
CHARGE TIME . . .	Approx. 6 hours
DIMENSIONS . . .	74" H x 26" W x 38.1" D
OPERATING DISTANCE . . .	35 feet‡

*Number of operations is dependent on the nature of the operation
†May be custom ordered to match different local power standards
‡Standard configuration, contact CBS ArcSafe® for other options

US PATENT NO. 8,151,452B2

Optional Equipment
Remote Racking Systems
For Extraction-Style and Rotary-Type Circuit Breakers

CCM Radio Remote



The Current Control Module (CCM) radio remote option allows users to operate the RRS and monitor the racking status wirelessly from up to 300 feet away. Ideal for users with extended distance requirements or those who wish to monitor the status of the racking operation remotely.

Wireless/Wired Video System

The wireless/wired video system allows users to monitor the remote racking operation from up to 300 feet away using an RRS-mounted camera and stand-alone monitor. Ideal for users who will be visually separated from the RRS during the remote operation.



Wireless Video Operation

Power Slide



The power slide system utilizes a motor to raise and lower the drive assembly instead of the standard handle. Ideal for applications requiring users to quickly and easily switch between racking heights for different breakers.

LED Light



The LED light accessory adds a forward-facing, high-intensity light source with pan and tilt capability to the front of the RRS. Ideal for personnel setting up the RRS or installing RRS tooling in low-light environments.

High Lift

The high lift option is required to remotely rack any equipment with a racking mechanism more than 66 inches off the ground. Ideal for users who wish to rack breakers with extremely high racking mechanisms that would otherwise cause issues during manual operation.



Low-Speed/Jog

The low-speed/jog option consists of a high-torque/low-speed gearbox, as well as manual jog control for the RRS operation. Ideal for applications requiring added torque output and/or more precise control.

RRS Accessories



RRS-2 Remote Racking System
For Extraction-Style Circuit Breakers



The CBS ArcSafe RRS-2 is a portable and highly configurable remote racking system built to rack all circuit breakers with non-rotary racking mechanisms while keeping the operator outside of the arc-flash boundary. The operator is able to manipulate the breaker-specific tooling, available for numerous makes and models of switchgear, via either a wired or wireless pendant station from up to 300 feet away. Prior to ordering, CBS ArcSafe recommends an on-site evaluation be performed by a company representative in order to ensure the proper equipment may be provided for each customer based on their particular switchgear and specific requests.

SPECIFICATIONS

WEIGHT	160 lbs
BATTERY LIFE	> 50 Operations*
SYSTEM VOLTAGE	24V DC
INPUT VOLTAGE	120±10% VAC, 47-63 Hz†
MAXIMUM AC CURRENT	12.2 A
EXT. ACTUATOR FORCE	600 lbs
EXT. ACTUATOR SPEED	1.0"/second
CHARGE TIME	Approx. 6 hours
DIMENSIONS	60" H x 26" W x 36" D
OPERATING DISTANCE	35 feet‡

RRS-2 Operational Video

*Number of operations is dependent on the nature of the operation; †May be custom ordered to match different local power standards; ‡Standard configuration, contact CBS ArcSafe® for other options

RRS-2 BE Remote Racking System
For Motor Control Center Buckets Only

Plant Engineering PRODUCT of the YEAR Finalist 2010

The RRS-2 BE is designed specifically for motor control center (MCC) bucket removal applications where users normally would be required to perform the install or remove operation manually — exposing them to the potential hazards of an arc flash and its lethal consequences. Designed to be extremely versatile, the RRS-2 BE is suited for use in all environments — from grueling applications in a power-generation facility to clean rooms at a high-tech manufacturing plant.







RRS-2 BE

BENEFITS

Setup and operation of the RRS-2 BE are very similar to that of the standard RRS-2, allowing users who are familiar with RRS-2 operation to transition between the two easily with no additional training required. RRS-2 BE benefits include:

- Large linear actuator has been replaced with a compact, adjustable travel linear actuator more suited to the forces required for MCC buckets instead of large breakers
- Steel frame of the RRS-2 has been modified to accept the specialized tooling required for MCC bucket install and remove operations
- Dual channel-enabled operation allows users to carefully control the MCC bucket install and remove operations
- Two-station high-reach vertical adjustment is capable of reaching MCC buckets up to 80" high. The included wireless remote control allows users to operate the unit from up to 300 feet away

SPECIFICATIONS

WEIGHT	105 lbs
BATTERY LIFE	> 50 Operations*
SYSTEM VOLTAGE	24V DC
INPUT VOLTAGE	120±10% VAC, 47-63 Hz†
CHARGE TIME	Approx. 4 hours
DIMENSIONS	74" H x 25" W x 32" D
OPERATING DISTANCE	300 feet‡

*Number of operations is dependent on the nature of the operation
†May be custom ordered to match different local power standards
‡Radio remote control standard on RRS-2 BE

RRS-3 Apparatus-Specific Portable Remote Racking Systems

CBS ArcSafe Apparatus-Specific Remote Racking Systems (RRS-3) are designed to remotely rack a single style of circuit breaker utilizing a portable, stand-alone device. The RRS-3 units are most commonly assisted by strong magnets, meaning that no modifications are required to the switchgear. This also allows operators to easily move the RRS-3 from one breaker to another.

The RRS-3 system is an inexpensive single-apparatus remote racking system that allows the operator to install and remove a breaker while standing 25 to 75 feet away with a hand-control unit. Each CBS ArcSafe RRS-3 is custom built to your electrical equipment so that it can safely operate your switchgear.

BENEFITS

- Lightweight, portable construction
- Mechanical and electrical safety protection
- Mechanical clutch over-racking protection
- Adjustable to fit unique equipment configurations
- Fast and easy to set up
- Reduced need for a full-body arc-flash suit
- Adds safety and helps comply with NFPA 70E
- No modifications required

RRS-3 MBII



RRS-3 GMI & RSO-IV-M18 Operator

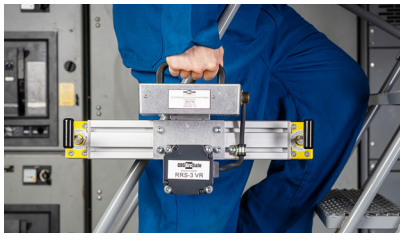






RRS-3 VCPR





Remote Switch Operators (RSO)



RSO-IIID-M18

1. Operating pushbuttons, such as circuit breaker trip and close buttons
2. Operating charging handles requiring single or multiple cycles
3. Engaging or disengaging mechanical interlocks, such as circuit breaker interlock foot-pedals

UPDATED DESIGN

POWERED BY M18 REDLITHIUM



RSO-IAR-M18

1. Operating pushbuttons, such as circuit breaker trip and close buttons
2. Operating levers, such as those found on motor control center buckets
3. Operating handles requiring single strokes
4. Operating rotary and pistol-grip switches, such as breaker control switches



RSO-IV-M18

1. Works with RRS-3 Apparatus-Specific Remote Racking Systems
2. Installing and removing any switchgear utilizing a rotary racking mechanism
3. Installing and removing any switchgear utilizing a non-rotary racking mechanism
4. Engaging or disengaging mechanical or electrical interlocks, such as circuit breaker interlock foot-pedals or buttons
5. NEW - Blue Indicator beacon alerts user when input settings have been reached

RSO Updated Design

LEARN MORE ABOUT OUR REMOTE SWITCH OPERATORS FROM A LIVE BROADCAST ON OUR YOUTUBE CHANNEL

The POWER of ONE™

GROUP CBS

ONE GROUP ONE GOAL

TO PROVIDE COMPLETE ELECTRIC POWER SYSTEM LIFE CYCLE SOLUTIONS

Shop and Engineering Services

- Electrical Equipment Repair
- Remanufacturing & Reconditioning
- Testing Services

Emergency Restoration Services

- 24/7/365 After-Hours Support
- Nationwide On-Site Emergency Services
- Self-Contained Portable Workshops

Unmatched Parts Inventory

- Renewal & Replacement Parts
- Millions of Parts in Stock
- Vacuum Interrupter Replacements

Electrical Apparatus in Stock

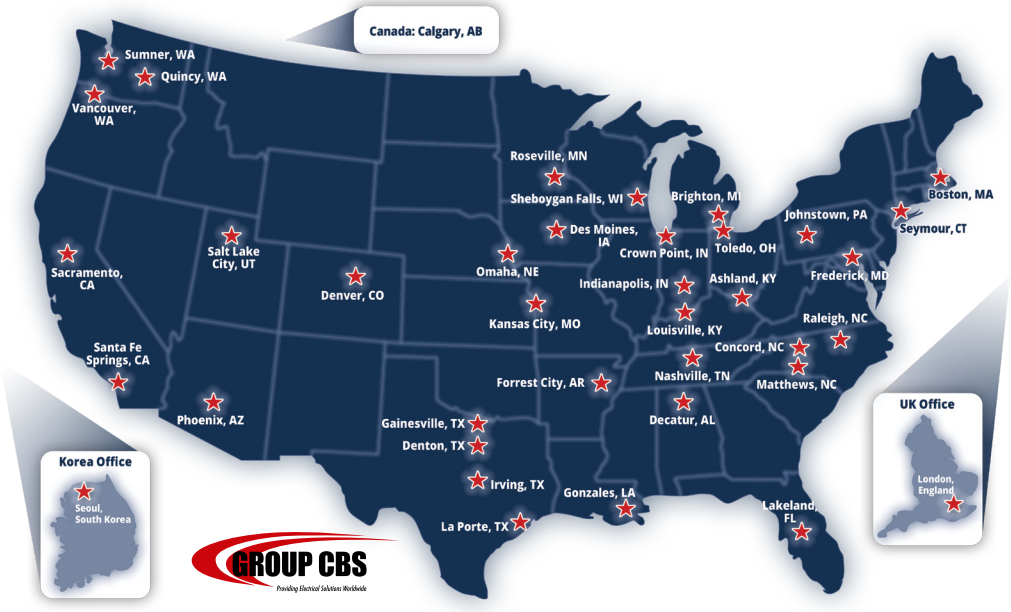
- Largest Inventory of Power Distribution Equipment
- New, Surplus & Remanufactured Apparatus

Custom Electrical Safety Solutions

- Arc Flash Injury Avoidance
- Remote Racking Systems
- Chicken Switch® Remote Switching

NETA-Certified Field Services

- Maintenance & Acceptance Testing
- Electrical Testing & Commissioning
- Power System Studies



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Group CBS has global subsidiaries offering products and services for the low-, medium-, and high-voltage industrial, utility, electrical distribution, and repair markets.