



ENERGIZING IDEAS

CORNELL DUBILIER



CORNELL
DUBILIER

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A privately-held company headquartered in Liberty, SC, Cornell Dubilier is a technology leader and manufacturer of high quality capacitors used in demanding industrial, medical and military/aerospace applications.



CDE CORE PRODUCTS

Aluminum Electrolytic



- Screw Terminal
- Snap-in
- Flatpack
- Axial and Radial
- SMT

DC Film



- DC Link
- Snubber
- Axial and Radial
- SMT

AC & DC Oil-Filled



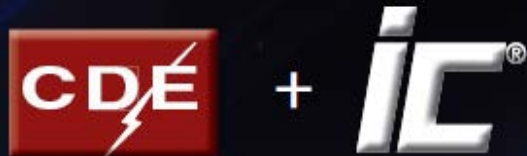
- 1Ø and 3Ø
- Harmonic Filters
- Power Conversion
- Motor Run
- HID Lighting

Mica



- RF Dipped
- RF Clad
- SMT
- Transmitting

OUR MOST RECENT ACQUISITION



MORE CHOICES ON AND OFF THE BOARD



Illinois Capacitor
SEARCH BY PARAMETER

» EDLC/Supercapacitors

» Aluminum Electrolytic

» Aluminum Polymer

» Film

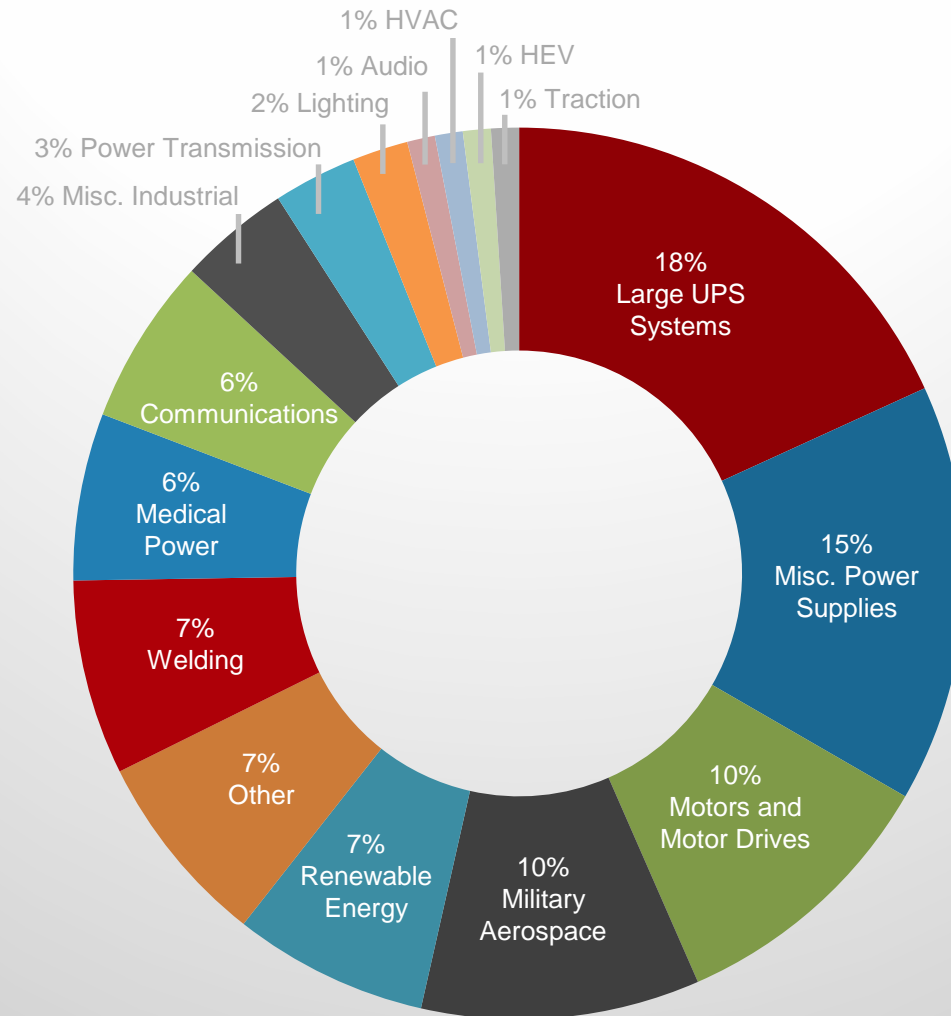
» Power Film

» Class X2 / AC & Motor Run



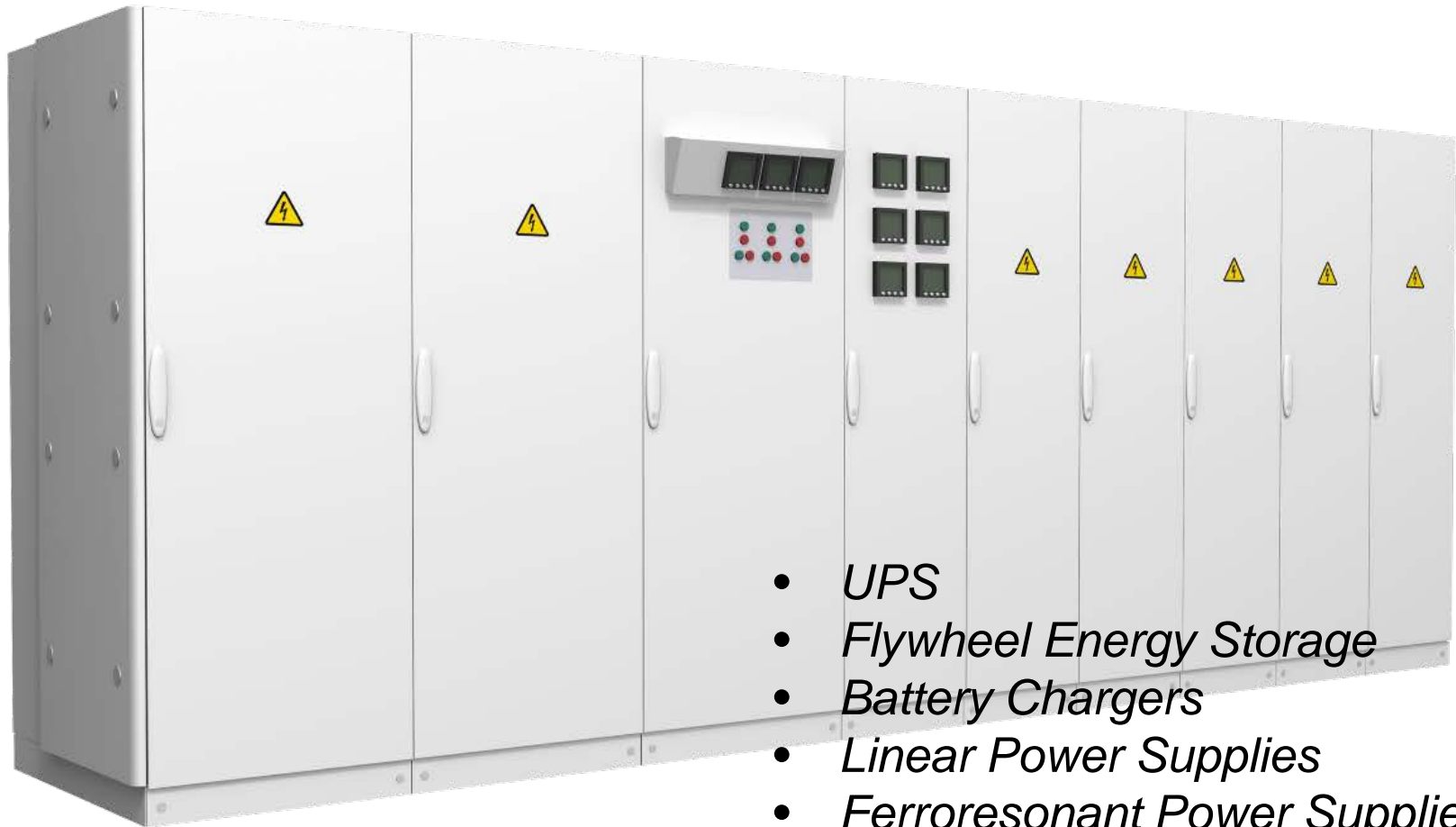
Supercap Modules

MARKETS



Where CDE capacitors are used

POWER SUPPLY AND BACKUP



- *UPS*
- *Flywheel Energy Storage*
- *Battery Chargers*
- *Linear Power Supplies*
- *Ferroresonant Power Supplies*
- *Fixed Output and Programmable Power Supplies*

Where CDE capacitors are used

INDUSTRIAL

- *Welders*
- *Motors and Motor Drives*
- *Motion Control*
- *Elevators*
- *HVAC Systems*

Where CDE capacitors are used

MILITARY AND AEROSPACE

- *Radar*
- *Commercial and Military Aircraft Power Supplies*
- *Cockpit Communications*
- *Black Box Recorder*



Where CDE capacitors are used

MEDICAL

- *MRI*
- *X-ray*
- *Lasers*
- *RF Ablation*
- *Oxygen Concentrators*



Where CDE capacitors are used

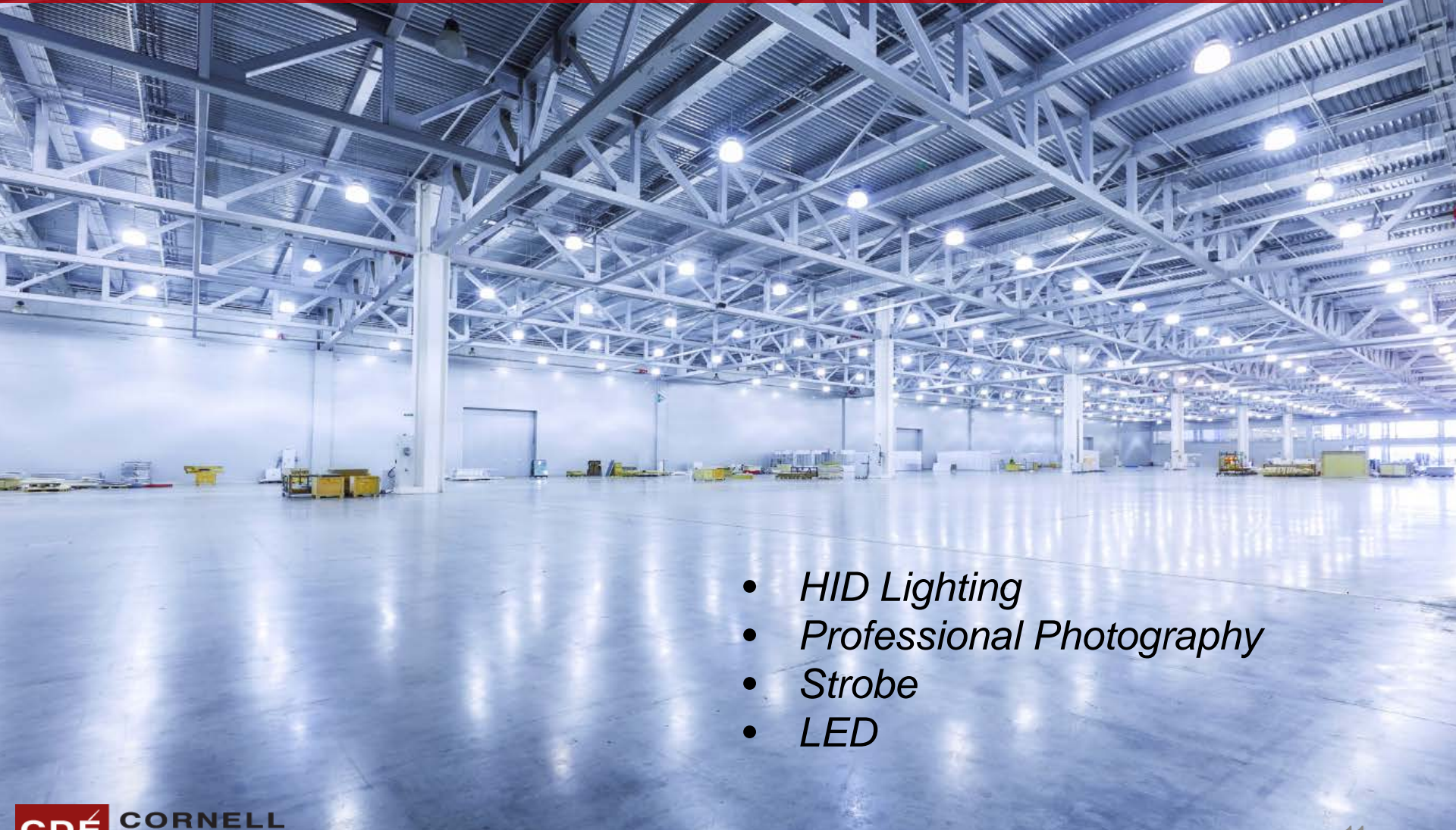
RENEWABLE ENERGY

- *Grid Tie and Commercial PV Inverters*
- *Wind Inverters*
- *Fuel Cell Inverters*



Where CDE capacitors are used

LIGHTING



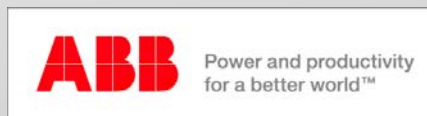
- *HID Lighting*
- *Professional Photography*
- *Strobe*
- *LED*

Where CDE capacitors are used

AUDIO

- *Audio Amplifiers*
- *Guitar Tone Circuits*
- *Battery Stiffening*
- *RF Tuning Circuits*

GLOBAL OEM PARTNERS





EXPERTS IN EVERY INDUSTRY APPLICATION

Whether your project requires a standard capacitor or a custom solution, our engineers will work with your team to arrive at the optimal solution.

**OUR ENGINEERS ARE
EAGER TO COLLABORATE**

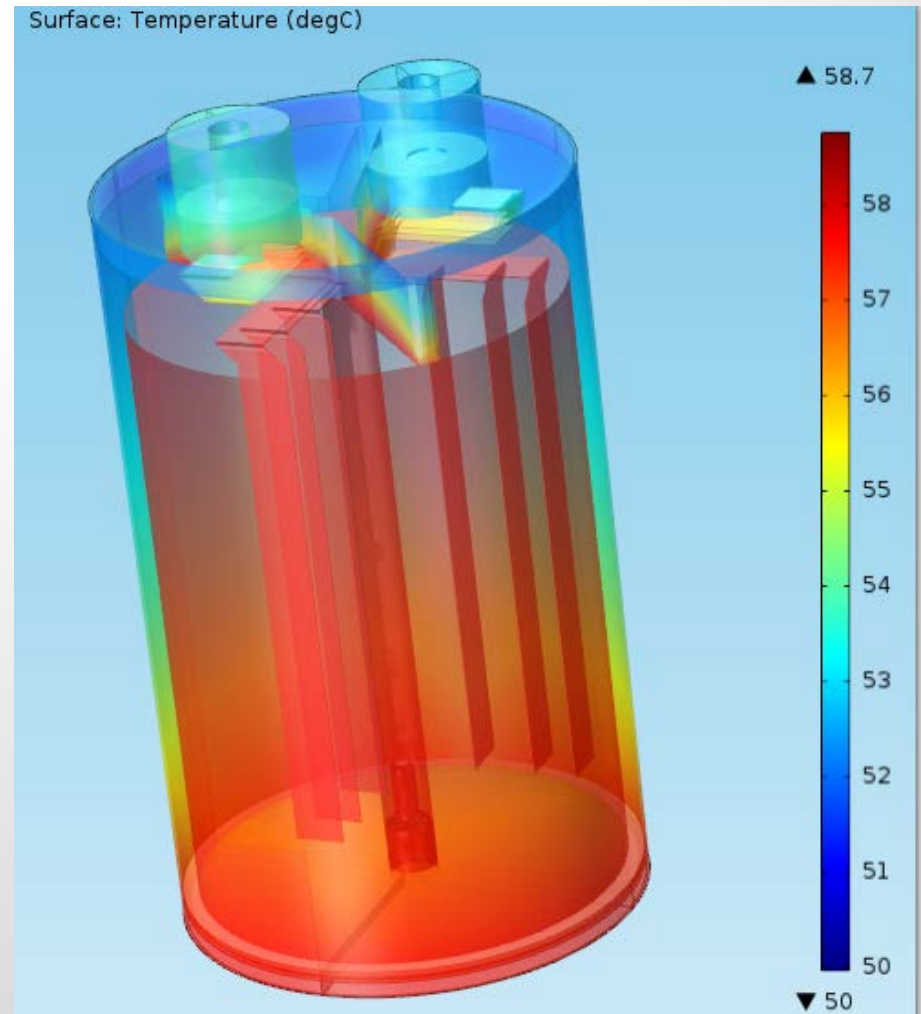
A close-up photograph of a scientist in a laboratory. The scientist is wearing a light blue lab coat, safety glasses, and blue nitrile gloves. They are using a blue pipette to transfer liquid into a small vial. The vial is placed on a white laboratory instrument with a blue control panel. In the foreground, there is a red instrument with a keypad and a digital display. A brown glass bottle is visible in the bottom left corner. The background shows a white wall with a power outlet and some papers.

INNOVATION DRIVEN BY RESEARCH

OUR TECHNOLOGY

R&D Center located in Liberty, South Carolina.

- Advancing aluminum electrolytic technology, especially in the area of prismatic form factors
- Thermal and physical modeling of capacitors using COMSOL
- Advanced electrical and physical testing and analysis techniques

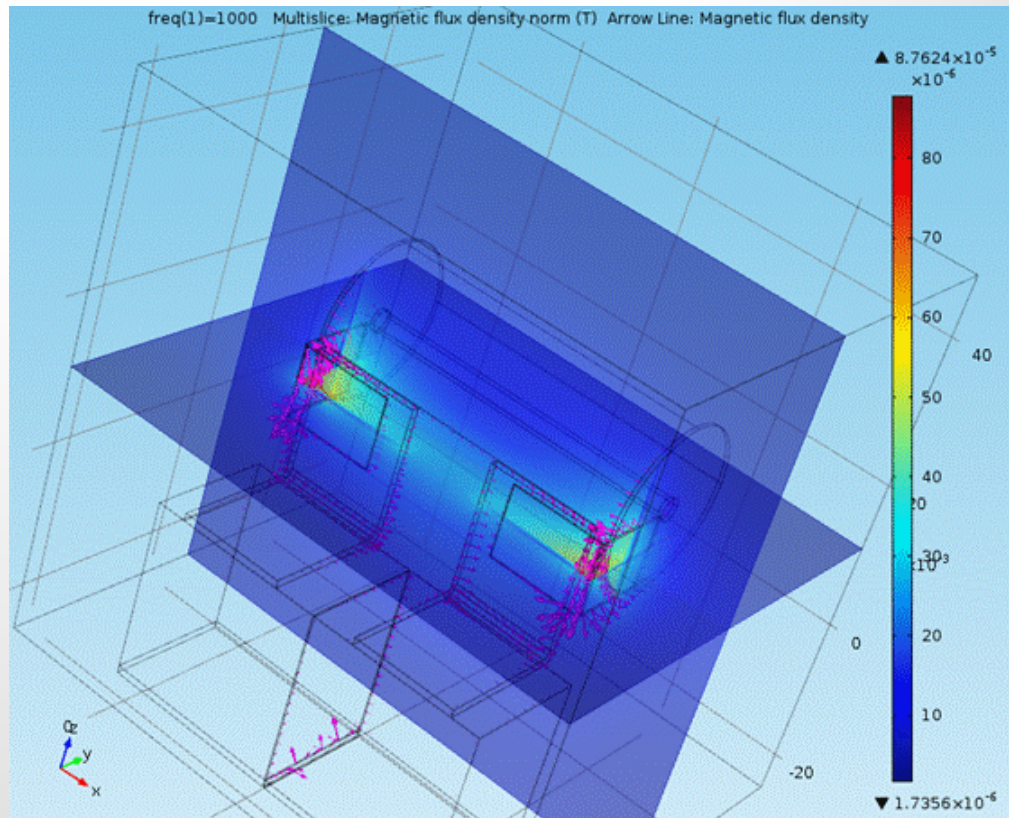


COMSOL THERMAL MODEL OF SCREW TERMINAL ELECTROLYTIC

OUR TECHNOLOGY

AC and DC Film Capacitor
Development Center
Located in New Bedford,
Massachusetts.

- Advancing AC and DC film technology to remain at the forefront of capacitor development in this dielectric technology



COMSOL MAGNETIC FLUX DENSITY MODEL OF IGBT SNUBBER

FACILITIES

- Liberty, SC: Corporate headquarters, Aluminum Electrolytic R&D Center and manufacturing
- New Bedford, MA: Distribution Center and Engineering Development Center for AC and DC Films
- Mexicali, Mexico: Manufacturing
- Chicago, Illinois: Logistics center and Illinois Capacitor Customer Service Center for OEM Sales
- Kwun Tong, Kowloon, Hong Kong: Asia Sales and logistics center

A photograph of a manufacturing facility. A man in a blue polo shirt, safety glasses, and blue gloves is working on a large, complex industrial machine. The machine consists of many rows of grey metal cabinets with various controls and lights. The facility has a high ceiling with blue structural beams and bright overhead lights. A clock is visible on a blue beam in the background.

Manufacturing Facility: 15,000 M², 205 People, 12 Engineers

LIBERTY, SOUTH CAROLINA

Home of CDE Headquarters and our principal manufacturing site for Screw Terminal Aluminum Electrolytic and Transmitting Mica Capacitors.

Manufacturing Facility: 15,000 M², 205 People, 12 Engineers

LIBERTY, SOUTH CAROLINA

37,000 M², 48 Employees, 8 Engineers

NEW BEDFORD, MA

Located 60 miles south of Boston, this facility services all of the company's distribution business with thousands of stocked SKUs.

It is also our Engineering Center for all Film and Mica Capacitor products.





CDE Manufacturing Facility: 11,000 M2, 363 Employees, 11 Engineers

MEXICALI, MEXICO

Located just across the Southern California border, this facility is the largest mica capacitor factory in the world. Capacitors manufactured here include:

- Snap-in Aluminum Electrolytic Capacitors
- AC Power Film Capacitors
- DC Film Capacitors
- IGBT Snubbers
- Mica Capacitors

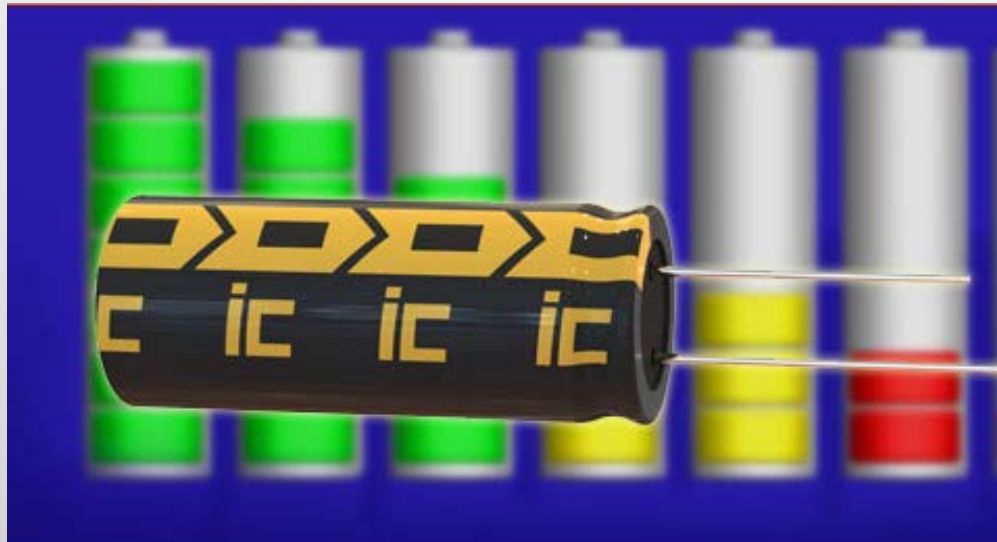
CDE Manufacturing Facility: 11,000 M², 363 Employees, 11 Engineers

MEXICALI, MEXICO

3,000 M², 19 Employees, 2 Engineers

CHICAGO, ILLINOIS

Located in the Chicago area, this facility houses operations for Illinois Capacitor Customer Service, Engineering, Warehousing and Logistics.



Asia Sales and Logistics: 1,500 M², 19 Employees, 2 Engineers

HONG KONG

Our Asia sales office and logistics center is located in Kwun Tong, Kowloon, Hong Kong. Staffed with 19 people including sales engineers, customer service personnel, application engineers and technicians.



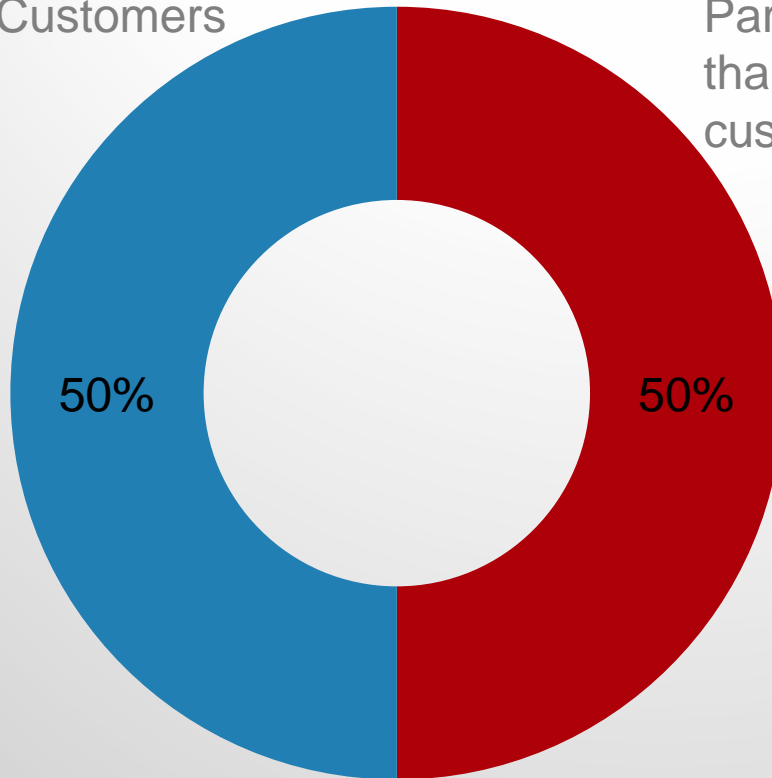
GLOBAL SALES CHANNELS



CDE International Sales Offices are conveniently located in North America, Asia and throughout Europe.

GLOBAL SALES CHANNELS

Direct Customers



Our Distributor Partners reach more than 30,000 customers worldwide

- OEM
- Distribution

GLOBAL DISTRIBUTION PARTNERS



THE CDE ADVANTAGE

- We have a broad portfolio of standard capacitor products for Power Electronics
- We excel with applications and custom capacitor designs for critical applications
- Global logistics, sales and distribution network
- Access to CDE engineers

