



egan-wagner corporation

Retrofit your motor control center — a smart, cost-effective solution.

RETROFIT

OBSOLETE

Extend the life of any brand motor control center without the expense of replacing the entire structure by choosing to retrofit with Egan-Wagner Corporation.

Repurposing your MCC to a different motor size or application? Retrofitting can make the transition safer and minimize downtime.

the MCC retrofit experts

WHAT IS A MCC RETROFIT?

A typical motor control center retrofit begins with an existing bucket or a direct replacement bucket. The unit is evaluated and reverse engineered by our knowledgeable staff.

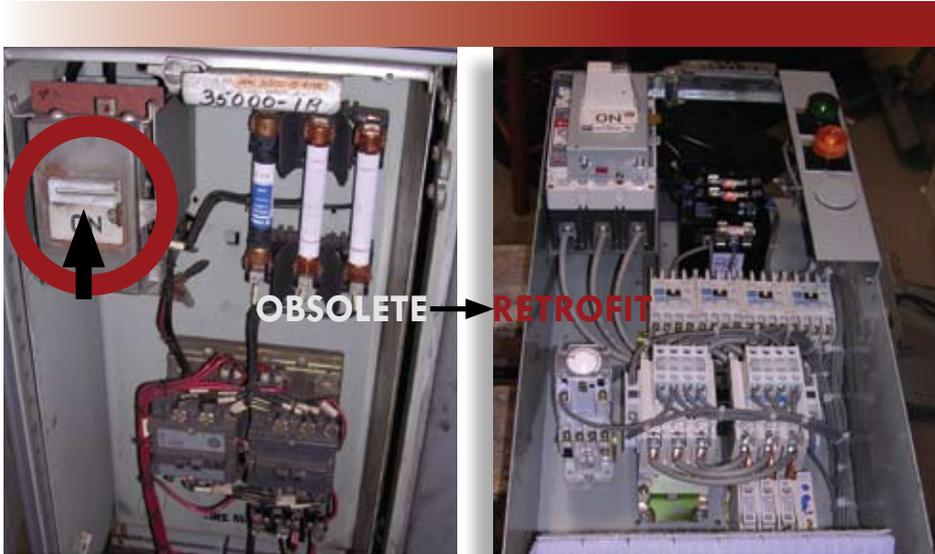
All old components and wiring are removed and recycled, and the stabs are inspected for wear. The rebuilding

begins with a custom schematic that matches the customers requirements and includes all new components (starters, circuit breakers, control power transformers, relays and pilot devices for example), assembled, wired and tested. We recommend using new UL components to meet NEMA guidelines, for your safety and to receive all the benefits of today's technology.

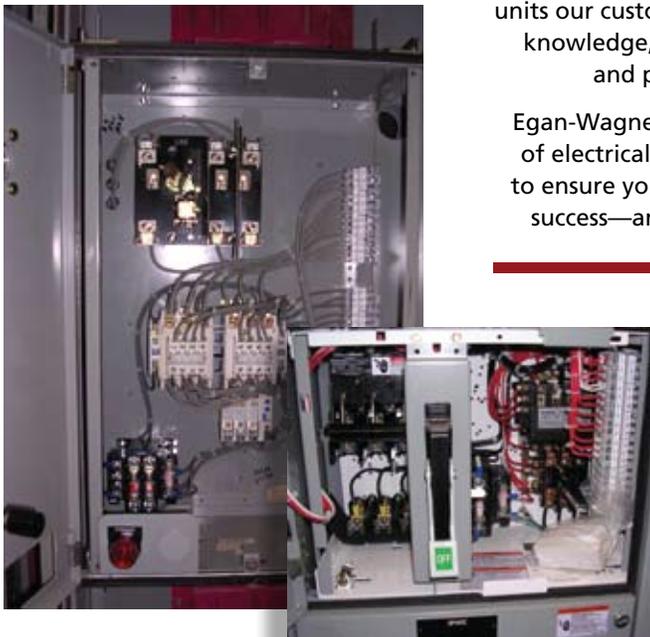
The final step before shipment includes a 'test-fit' into one of our original MCC structures to guarantee ease of installation on-site.

Turn to EWC, the MCC retrofit experts, to upgrade your existing units, customize a new unit or solve a difficult design challenge.

Retrofit—new components, new technology, new engineering, on-time, on-budget



Safety is a big concern in all motor control centers. This Type W unit had a broken handle which was unsafe for personnel. A retrofitted unit is ready to install with all the safety features intact.



From feeder buckets to full voltage non-reversing and reversing buckets to soft start and variable frequency drive units our customers rely on EWC's expert knowledge, commitment to quality and promise to deliver.

Egan-Wagner has more than 50 years of electrical engineering experience to ensure your retrofit experience is a success—anywhere in the country.

This international shipping company used retrofits to avoid downtime and extended outages. Out of date Furnas System 89 and ITE Rowan units were brought up to NEMA code and spares provided essential backup units.



Variable frequency drives can be installed within a motor control center as this Westinghouse Type W sample shows. A waste water treatment plant in Arizona had limited space and required a custom engineered solution utilizing a 'bubble' door.



the MCC retrofit experts

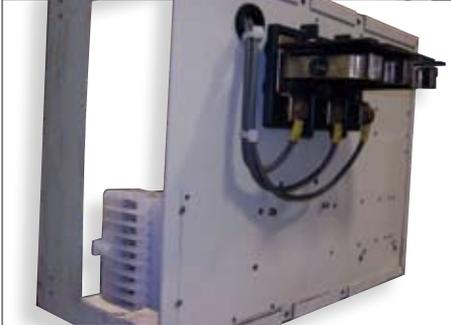
Improved safety and reliability with minimal downtime



Numerous Cutler-Hammer F-10 units, retrofitted for a large auto manufacturer, included a complicated device panel and a custom door color.



These 12" GE 7700 units were re-engineered with special compact surge suppression/metering modules.



This Allen-Bradley Centerline unit was retrofitted with new components and engineered to meet new requirements.



ITE Rowan retrofit with a new, door mounted, operating handle.



OBSOLETE RETROFIT



This Westinghouse Five-Star MCC bucket was retrofitted with a two speed, two winding, vacuum starter.



A very old GE MCC bucket was custom designed to accommodate dual stabs for increased amperage.

THE BENEFITS OF RETROFITTING:

SAFETY

- Restore personnel protection with new operating handles and overload resets.

RELIABILITY

- Improve reliability with new devices resulting in fewer breakdowns.

ENGINEERING

- Experienced engineers resolve design deficiencies and safety issues. Qualified technicians assemble, wire and test-fit every retrofitted unit in a structure before it leaves the facility.

PROMPT DELIVERY

- Critical project schedules are met with fast delivery of retrofitted units. Rush orders can be accommodated easily.

MINIMAL DOWNTIME

- An extended outage is eliminated with a retrofit unit. Installation of a retrofitted bucket can be completed in under an hour and during non peak times.

EASE OF INSTALLATION

- Custom schematics and wiring diagrams exactly match existing units facilitating retrofit change-outs and future troubleshooting.

CUSTOMIZATION

- Customize existing or new units that aren't delivering the performance or reliability you require. EWC can retrofit any bucket with a specific manufacturer's components to meet corporate guidelines or preferences.

Retrofits for all brands of 480 volt MCCs can include:

- Starters (FVNR / FVR)
- Feeder circuit breakers
- Variable frequency drives
- Soft start adjustable voltage starters
- Multi-speed starters
- Reduced voltage starters
- Main and tie circuit breakers
- Custom units, including surge protection and metering
- Custom engineering and schematics

Retrofit—Custom solutions with engineering expertise meeting your needs



Cutler-Hammer 9800 retrofit with power monitor.



A Westinghouse 11-300 unit redesigned to last another 20-30 years.



Hundreds of these ITE Continental buckets were completed for a large generating plant in Ohio and included a voltage detector.

Retrofitted units were easily installed in the existing MCC structures by the plant engineering maintenance team over a years time.

Remember if a capital budget is not available a maintenance budget is a perfect way to upgrade your MCC over any period of time.



These GE 8000 units needed a quick change to feeder buckets to accommodate new equipment.



A Westinghouse Type W MCC at a large refinery was retrofitted with a new ASCO Automatic Transfer Switch. Retrofitting with a new digital control Automatic Transfer Switch will restore the critical transfer of power function in an emergency situation.

ALL TYPES AND BRANDS

of motor control centers can be expertly retrofitted including Allen-Bradley, Allis-Chalmers, A.O. Smith, Clark, Cutler-Hammer, Continental, Federal Pacific, Furnas, General Electric, ITE Continental, ITE Rowan, ITE Gould, Klockner-Moeller, Nelson, Powell, Siemens, Siemens-Allis, Sylvania, Square D and Westinghouse.



EWC has inventory of nearly every brand of MCC structures, which allows for a custom fit of each retrofitted unit.



This soft-start retrofit for a 250 HP motor offers long term cost savings and reduced a tripping nuisance. Utilizing a custom backpanel approach the design reduced installation costs and minimized downtime, compared to a new MCC, and improved reliability.

WHO IS EGAN-WAGNER CORP?

We bring you more than twenty years in the retrofit niche and are committed to providing you with great customer service, starting with a timely quote process to a quick delivery to a one-year warranty. We service customers across the U.S. and Canada. EWC is a Siemens and Eaton OEM which means you get the best pricing available and better delivery times. Contact EWC for more information.

the MCC retrofit experts