

Breakers & Switchgear

A COMPLETE CIRCUIT

Paragon leads the nuclear industry in the supply of low- and medium-voltage breakers.

Circuit breakers are vital to the operation of nuclear facilities, providing both control and protection of electrical components, switchgear, and circuits.

Paragon is the nuclear industry's leading supplier of low- and medium-voltage breakers through our exclusive partnership with Schneider Electric. This long-standing relationship has allowed Paragon to offer circuit breaker support to the nuclear industry for over 20 years.

MASTERFUL DESIGN

One of Paragon's best-selling products is the Masterpact low voltage breaker, of which literally thousands are installed at numerous sites. Long the industry standard, the Masterpact breaker is innovative in that it requires no overhauls for 40 years (or 10,000 operations), and needs to be cycled only once every six years. They are smaller than all legacy

designs; custom cradles are designed by Paragon and Schneider Electric to meet the requirements of each facility. The cradle racks into the existing switchgear without modification and the Masterpact racks into the cradle. The only physical change required is to the door due to differences in the size of the opening.

With Masterpact breakers, refurbishment tasks, spare parts inventory, and the associated man-hour requirement O&M costs become a thing of the past. The cost of a new Masterpact breaker and the required DCP is less than the cost of most breaker overhauls. Additionally, the Masterpact PM cycle frequently is six years, maintenance tasks can be accomplished in two to four hours with no lubrication or routine replacement parts required.

Without a doubt, Masterpact breakers are the long-term, low-cost solution for the life (or life extension) of any plant.



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An Open and Shut Case

There just aren't any other replacement breakers out there that have the features, cost-effectiveness, ease of use, nuclear-installed base, or reliability of the Masterpact.

If your plant is looking to replace low-voltage power circuit breakers, this superior piece of equipment is what you're looking for.

On the other hand, if your facility's breakers just need to be repaired, refurbished, or retrofitted, you can count on us to deliver. At Paragon, we do whatever it takes to ensure our customers get the best products. We stand ready with our teaming partners to support the nuclear industry with a solid guarantee of service, standard-setting craftsmanship, and quality.

MAGNUM FORCE

For medium voltage applications, Paragon supplies the Schneider Electric Magnum breaker series.

Magnum series breakers have multiple configurations to be direct replacements for all popular legacy models. Medium voltage replacement breakers utilize vacuum technology for superior performance, reduced maintenance, and longer life.

THE THREE Rs

Besides offering new replacement breakers, Paragon provides repair and refurbishment services for all brands of breakers. For both low and medium-voltage breakers, all work is performed in our Fort Worth, Texas facility.

MAKING THE SWITCH

In addition to breakers, Paragon manufactures and supplies complete switchgear lineups. In some cases Paragon designs and manufacturers custom switchgear and in other cases, we modify OEM switchgear to meet client-specific requirements, such as electromechanical protection relays instead of digital. Paragon also analyzes and modifies the switchgear so it can withstand seismic qualification testing. Paragon has extensive experience supplying replacement switchgear to worldwide and domestic nuclear plants and DOE facilities, as well as new construction in the same facilities and advanced reactor markets.

QUALITY ASSURANCE

Paragon assumes responsibility for all nuclear-specific requirements such as qualification and quality assurance for all safety-related replacement breakers and switchgear, which are supplied in accordance with Paragon's 10CFR 50 Appendix B, 10CFR21, and ASME NQA-1 Quality Assurance Program. **Paragon supplies the following comprehensive documentation with each replacement breaker or switchgear order.**

- Layout drawings
- Wiring diagrams
- Bill of Materials (BOM)
- Qualification Report (as required)
- Certification of Conformance

Paragon is your single source of electrical distribution needs.



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