



Switchgear MV

Reliable, Flexible and Unmatched Performance



Reliability

Trusted by utilities, and some of the most demanding industrial installations across North America and soon around the world, CO7's switchgear consistently delivers the most reliable power distribution solutions to meet your specific requirements.

Our designs can be integrated with those from multiple third-party manufacturers, or our own components to bring you the most versatile and customizable solutions available in the market today.



Flexibility

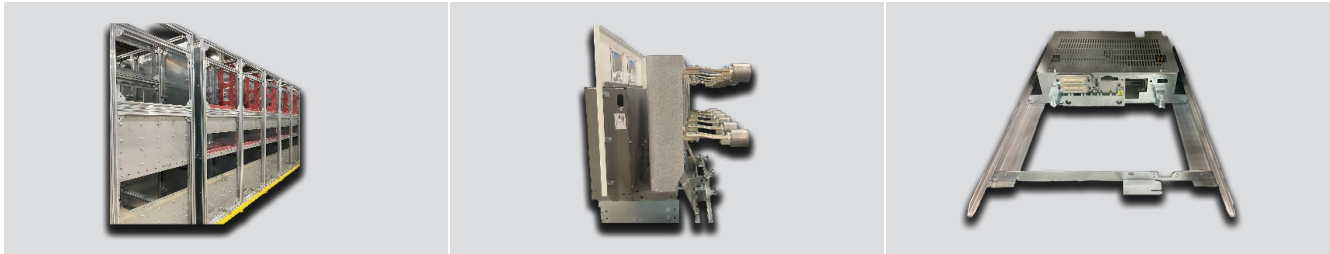
Design flexibility allows us to provide our customers with custom designed products to specifically meet their needs and requirements. Using our MODU-AL structure, our MV switchgear design is very flexible and robust, adapt to space limitations and coordinate with existing equipment, while meeting rigorous industry standards.

- Universal Cradle that increase SAFETY for operators, EFFICIENCY due to its ease of use and ADAPTABILITY to meet your needs.
- CO7 MV breakers, SE, ABB, Eaton, ...
- Cubicle depths ranging from 82" to 106"
- Special 77" high cubicles for low ceiling installations
- Maintenance / Bypass bus designs
- UL or CSA labeling for most applications
- Silver or tin plated bus
- Seismic qualification to IEEE693 and IBC (Zone 4)
- NEMA 1 indoor enclosure
- NEMA 3R outdoor non walk in, protected aisle, common aisle

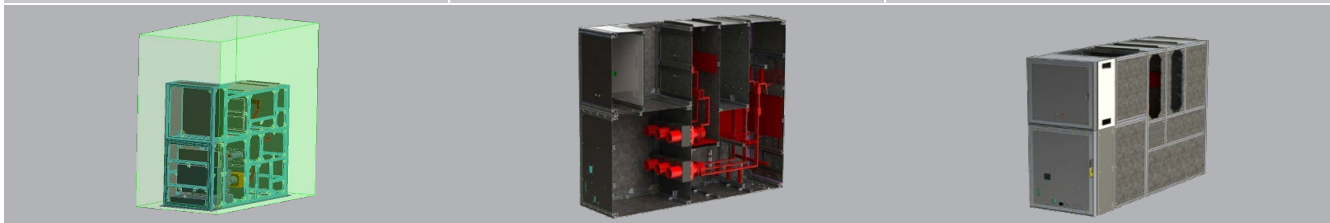
Non-arc Resistant			
Normal Voltage (kV)	Basic Insulation Level (kV)	Short Circuit (kA)	Bus Rating (A)
5	60	40	Up to 4000
15	95	40	Up to 4000
25-27.5	125	40	Up to 3000
27.6-38	150	40	Up to 3000

Arc Resistant			
Normal Voltage (kV)	Basic Insulation Level (kV)	Short Circuit (kA)	Bus Rating (A)
5	60	40	Up to 3000
15	95	40	Up to 3000
25-27.5	125	25	Up to 2000
27.6-38	150	31.5	Up to 2000

The Medium voltage Switchgear solutions uses the **MODU-AL**, a modular aluminum frame design, which eliminates eddy currents in the structure while providing outstanding properties in terms of rigidity, accuracy, and continuity of supply. This robust and reliable platform serves as the backbone for the switchgear's advanced features, including the universal cradle, racking mechanism and industry-leading arc fault quenching technologies.



<p>MODU-AL</p> <p>Modular and Configurable The MODU-AL's modular construction allows for easy adaptability, enabling the seamless integration of a wide range of circuit breakers, disconnectors, and other electrical components to meet specific application requirements.</p> <p>Enhanced Safety Integration The MODU-AL design is engineered to seamlessly integrate with the switchgear's advanced arc fault detection and quenching technologies, improving overall system safety and reliability.</p> <p>Broad Voltage and Current Ratings Supporting a wide range of voltage ratings from 5kV to 38kV and current ratings up to 4000A, the MODU-AL design enables CO7's switchgear solutions to be tailored to diverse power distribution application requirements.</p> <p>Rapid Customization and Deployment Leveraging their focus on manufacturing excellence, CO7 can rapidly customize and deploy the MODU-AL based switchgear solutions to meet customer needs in a timely manner.</p>	<p>Racking Mechanism</p> <p>Proprietary Racking System Design This proprietary design allows for a high degree of customization and flexibility to meet precise application requirements.</p> <p>Manufacturer-Agnostic Integration This broad compatibility enables customers to use their preferred circuit breaker brands, providing greater choice and flexibility.</p> <p>Maintains Type Test Validation The racking system design maintains type test validation when transitioning between different breaker sizes or voltage classes. This ensures that costly and time-consuming retesting is avoided when changing breaker models, streamlining the customization process.</p> <p>Remote Operation Capabilities The racking system incorporates remote operation capabilities. This enhanced safety feature allows for the switchgear to be operated remotely, minimizing the need for personnel to be near the equipment during potentially hazardous situations.</p>	<p>Universal Cradle</p> <p>Enhanced Safety Integration The universal cradle is designed to seamlessly integrate with the switchgear's advanced arc fault detection and quenching technologies, improving overall system safety.</p> <p>Streamlined Installation and Maintenance The modular and freestanding nature of the universal cradle significantly reduces deployment time and complexity, simplifying installation and maintenance processes.</p> <p>Broad Application Flexibility Supporting voltage ratings from 5kV to 38kV and current ratings up to 4000A, the universal cradle enables the switchgear to be tailored to diverse power distribution requirements.</p> <p>Rapid Customization and Deployment CO7's focus on manufacturing excellence allows the universal cradle-based switchgear to be rapidly customized and deployed to meet customer needs in a timely manner.</p>
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Arc Flash Simulation
CO7 Technologies' advanced arc fault simulation capabilities thoroughly evaluate the cabinet design, simulating fault conditions across the main breaker, main bus, and cable compartments. This comprehensive approach validates the safety and reliability of the system, ensuring compliance with industry standards.

Arc Quenching and Mitigation
The switchgear solutions incorporate an industry-leading ultra-fast earthing system that rapidly detects the formation of an arc fault and safely grounds the destructive energy within milliseconds. Sophisticated sensors and algorithms quickly identify the occurrence of an arc, triggering the immediate activation of strategically placed grounding devices to limit the dangerous arc flash energy and protect both personnel and equipment.

Adaptable to Diverse Applications
Supported by a wide range of voltage ratings from 5kV to 38kV and current ratings up to 4000A, the arc fault simulation and quenching technologies can be tailored to meet the specific requirements of diverse power distribution applications, ensuring a reliable and safe solution for even the most demanding mission-critical environments.

Rapid Customization and Deployment
Leveraging their focus on manufacturing excellence, CO7 can rapidly customize and deploy the advanced arc fault simulation and quenching technologies within their switchgear solutions to meet customer needs in a timely manner, minimizing downtime and ensuring prompt implementation of these critical safety features.



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