

Mining Switchgear

Rugged, portable and
customized mining
switchgear

 **AVAIL**™
Switchgear Systems



Reliable switchgear solutions built for tough environments

Designed to withstand the harsh conditions found in mining applications, Avail provides a complete line of switchgear solutions. Featuring metal-clad and metal-enclosed designs that are engineered with an emphasis on safety, our switchgear supports drag lines and shovels for safe, efficient surface mining operations.

Industry proven designs

Backed by decades of manufacturing experience, Avail Switchgear Systems offers a complete line of custom designed switchgear products for surface mining applications, utility distribution substations/generating stations, and industrial and commercial facilities.

We deliver engineering and manufacturing capabilities that provide the highest combination of product quality, installation expertise and reliable long-term product life—a unique, value added benefits package unsurpassed in the industry.

Our product line includes many proven designs. From these established solutions, we can incorporate special requirements to satisfy each project's specific needs. Through this approach, each customer receives custom built equipment satisfying their unique requirements.

Our diverse product scope features RTU/SCADA/PLC integrated designs and ranges from small junction skids to complex trailer mounted substations with walk-in enclosures.



Avail offers a comprehensive line of rugged and portable mine-duty product solutions designed to operate in challenging applications.

Rugged. Portable. Customized.

When providing switchgear for the mining industry, rugged and durable construction is paramount. Equipment must withstand extreme temperatures, frequent transport and harsh conditions. In such environments, your project requires more than switchgear—it demands proven “mine-duty” engineering.

Avail Switchgear Systems builds modular equipment that utilizes heavy-duty materials and an all-welded design. This industry leading construction process ensures that our customers can count on a solution that will prove both durable and reliable throughout its service life.

Our skid mounted units are constructed with 11 Ga. reinforced enclosures featuring doors with stainless steel hinges. This all-welded assembly is mounted to a heavy duty skid featuring 1/4" deck plates, 1.5" towing eyes, 1" thick wear plates on runners and noses, and heavy duty beams and channels. For blast protection of the transformer, 3/8" top and side steel plates are available on request.

Certified quality and safety

Avail is an ISO-9001 certified company that combines proven electrical expertise with an unmatched focus on safety.

Personnel are safeguarded by the implementation of high voltage signs and metal safety barriers, door interlocks, ground monitors, and the use of fluidized epoxy bus insulation tested for use at voltages up to 38kV.

At the project site, a team of MSHA certified field service technicians work to ensure the highest standard of safety is maintained.

Single point of contact

A dedicated project engineer is assigned who serves as the customer’s single point of contact throughout the duration of the project. This person is solely responsible for the successful execution of job requirements and all communication with the customer. Your project engineer handles all aspects of design and manufacture of the equipment.





Beyond switchgear for comprehensive coverage

Avail also manufactures portable mining substations, switch units, circuit breaker units and support structures, available as skid- or trailer-mounted options with primary voltage through 138kV. Avail switchgear is backed by MSHA-certified field technicians for thorough service and support.



Additional Offerings Supporting the Mining Market

Substations

- Skid mounted
- Trailer mounted
- Sizes through 20MVA
- Primary voltages through 138kV

Switch Units

- Skid mounted
- Trailer mounted
- Voltages through 138kV

Breaker Units

- Skid mounted
- Trailer mounted
- Voltages through 38kV

Pump/Lighting Substations

- 150kVA to 1500kVA
- Dual primary voltage
- 480V secondary

Junction Skids

- Voltages through 38kV

Padmounted Switchgear

- Metal-clad through 38kV
- Metal-enclosed through 38kV

Ground Monitors

- Solid State
- Microprocessor technology
- Pilot wire version
- Pilot wireless version
- Retrofits existing Avail monitors

Support Structures

- Skid and Trailer mounted
- Voltages through 138kV
- Galvanized, aluminum or painted

Mine-duty primary substation

Avail manufactures customized portable and fixed electrical substations and a comprehensive line of metal-clad and metal-enclosed switchgear for the surface mining industry. We offer fully integrated, "smart" mine-duty switchgear with advanced protection and control features, monitoring/metering equipment, and SCADA communication capabilities.

Our rugged and reliable mine-duty substations are characterized by an all-welded construction process. From a fully welded base assembly to heavy duty 1.5" thick towing eyes, we provide durable solutions uniquely tailored to meet your project requirements.

Most importantly, all designs are engineered with a focus on safety. Our products adhere to the latest IEEE, ANSI and MSHA standards and are serviced by a team of full-time MSHA certified technicians. Optional arc-flash energy calculations supplied on request.

Safety Features

- Metal Barriers
- Door Interlocks
- Ground Monitors
- Field Service Supported By MSHA Certified Technicians

Scada Communication Capabilities
With Serial & Ethernet Ports

Transformer Sizes
to 20MVA

11 Ga., All-Welded
Reinforced Enclosure

Stainless Steel
Pin Hinges

Enclosure Fully
Welded To Base

1" Thick Wear Plates
on Runners & Noses



1.5" Thick Towing Eyes

1/4" Thick Deck Plates

Load Spreading
Base Design



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