



**PACS Industries, Inc.**

## D.C. Switchgear for Traction & Industrial

PACS Industries, Inc. offers a rugged product line of metalclad, drawout D.C. switchgear for use in traction or industrial applications. Traction applications include cathode-rectifier protection and feeder protection. Industrial applications can include large motor/drive applications, mining equipment, etc. Switchgear is available for indoor or outdoor application, and can be furnished in PACS Power and Control Centers (PCC), which are prefabricated steel buildings. PACS can provide these PCCs with A.C. switchgear, transformers, rectifiers, D.C. switchgear, as well as building utilities.

A.C. switchgear available in **PACSafe Arc** Resistant construction.

**Circuit Breakers;** PACS uses the latest technology fixed GE Gerapid circuit breaker which we design to mount on a PACS drawout truck to meet ANSI standards and interlocks. Single pole, high speed air circuit breakers..

- Circuit breakers available to 8000 Amps in drawout construction.
- Voltage ratings from 1000 VDC to 3600 VDC.
- Latest technology two stage contact system (main and arcing contacts).
- Inspection and replacement of the arcing contact & runners is only a 30 minute (or less) task.
- Spring operated energy trip system.
- Mechanically latched mechanism which does not require an auxiliary power source.
- Internal overcurrent trip shunt.
- Closing solenoid with integrated control unit.
- Ease of maintenance.
- Feeder mechanical endurance is 20,000 ops. To 100,000 ops with regular maintenance.

**The drawout cell** is manufactured by PACS to meet ANSI standards.

- Drawout metalclad construction per IEEE C37.20.
- Separate breaker, main bus, and cable compartments. 11 gauge steel.
- Automatic shutters.
- Automatic secondary (control) plug.
- Forced tripping when breaker is inserted or moved in cubicle.
- Interior wall insulating panels.
- Compact construction. Feeder cell 24" wide x 96" high x 60" deep.
- Overhead relief flaps to discharge gases that are generated during short circuit current breaking.
- 



Typical DC switchgear traction arrangement.



Typical drawout clusters available to 8000Amps.



Typical Power and Control Center (PCC).