

Switchgear and Control Products

ISO 9001-2000 CERTIFIED



Switchgear and Control Products For The Industrial, Commercial and Marine Industry

M&I Electric is firmly established as a custom switchgear and control OEM, having served heavy industry since 1946. M&I has the ability to take complex electrical and instrumentation projects from concept to completion. In-house capabilities include engineering and design, fabrication, painting, assembly, bussing, wiring, full system testing and start up.

SPECIAL CAPABILITIES

- Special enclosure sizing or design
- Custom assemblies with non-standard components
- Match and line up to existing apparatus
- Manufacture to special environments and hazardous areas
- Unique bussing arrangements
- Short delivery cycles
- Integrated power and control buildings
- Turn-key systems
- Fully automated generator control switchgear
- Systems utilizing PLC and digital controls

STANDARDS

- Industrial Equipment designed and manufactured to meet ANSI, NEMA, IEEE, IEC and NFPA standards.
- Marine Equipment designed and manufactured to meet ABS, USCG, DOE, IEEE45 and DNV standards.
- **ISO 9001-2000 Certified**



Manufacturing Plant Assembly Bay

Medium Voltage Switchgear Through 38KV



6.6KV Metal Clad Generator Control and Distribution Switchgear

METAL CLAD

Metal clad switchgear can be manufactured through 3000A utilizing ABB, Cutler Hammer, GE, Siemens and Toshiba circuit breakers. State of the art micro-processor based protective devices can be incorporated into the design to provide maximum system protection and communication.



15KV Switchgear, Rear View



15KV Metal Clad Switchgear

METAL ENCLOSED

Metal enclosed switchgear can be manufactured for 600 and 1200 amp capacity through 38KV. Special features include:

- Insulated buss
- Metering and protective devices
- Custom Enclosures
- Incoming and transition sections
- NEMA 1 and 3R enclosures
- Safety Interlocks



38KV Metal Enclosed Switchgear



15KV Metal Enclosed Switchgear

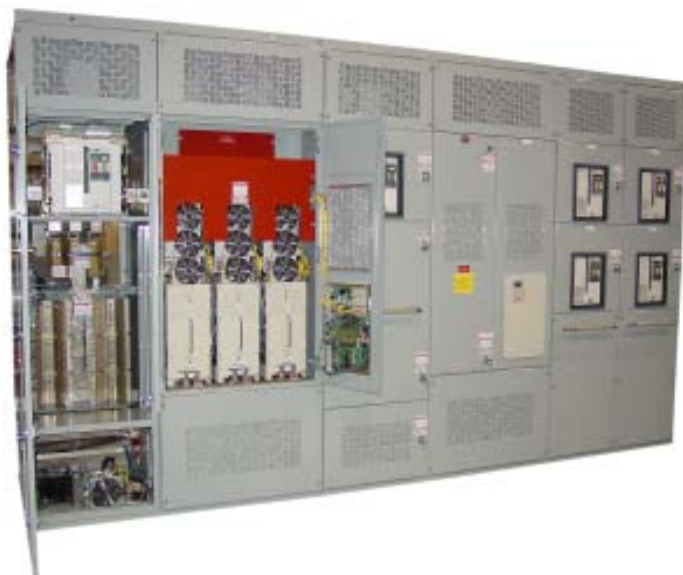
Low Voltage Switchgear and Drives

Low voltage metal enclosed switchgear is available through 600V utilizing Cutler Hammer, GE, Siemens or Merlin Gerin circuit breakers. Application and features include:

- Automatic parallel generator control
- PLC controlled functions
- Insulated and segregated bus
- Microprocessor based protection



480VAC Generator Control and Distribution Switchgear



*600VAC Variable Frequency Drives
Through 2000 HP*

*600VAC Generator Control with Automatic
Parallel and SCR-DC Drives*



*Custom Switchgear with 12,000 Amp Bus
and 130KA Bracing*

Motor Control Center Through 7.2KV

Low and medium voltage motor controls are available utilizing Allen Bradley, Cutler Hammer, GE and Siemens starters. Custom arrangements with transition to switchgear and bus duct are available. Some of the custom features include:

- PLC controls
- Marshalling cabinets
- Microprocess based metering & protection
- Solid state starters
- Solid state soft starts
- Variable frequency drives
- Custom wiring schemes



*5KV Motor Controllers
Transitioned to Switchgear*



*Custom 5KV Solid State
Reduced Voltage Motor Starter*



Low Voltage and Medium Voltage Bus Duct



Switchgear, Motor Control and Bus Duct in Factory Test Bay

Unit Substations

TOTAL SYSTEM RESPONSIBILITY

Complete unit substations are available, including installation and start up. Almost any type of equipment can be designed and packaged for a complete system installation.



15KV - 480VAC Substation with 15KV Metal Enclosed Switchgear, Transformer, Bus Duct, Integrated Power and Control Building with 480VAC Switchgear and Motor Control Center



Add on to existing 5KV substation



Packaged Substation Including 600VAC Switchgear, SCR Drives, Transformer and Motor Control Center



Offshore Module Including Medium and Low Voltage Switchgear, Bus Duct and Motor Control Center

Integrated Power and Control Buildings

Integrated power and control buildings are available in galvanized steel, stainless steel or fiberglass structures. Outfitting of the building can include all types of switchgear, motor control, DC systems, UPS, PLC systems and Class I Div II purging systems.



*Integrated Power and Control Building
Including 15KV metal enclosed switchgear, 5KV metal clad switchgear, 480VAC switchgear and motor control centers, marshalling cabinets, DC system and Class 1 Div II purging system*



Manufacturing Plant Assembly Bay with Integrated Power and Control Buildings

CUSTOM ASSEMBLY AND TESTING



Switchgear Testing & Quality Assurance



Generator Control Switchgear Wiring



SCR Bridge Assembly



SCR System Programming



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