



# Power Electric Switchboards PTY LTD

MINING, INDUSTRIAL & COMMERCIAL SWITCHBOARDS



## Power Electric Switchboards

Power Electric Switchboards is a leading Australian manufacturer of Switchboards and Motor Control Centres in commercial, industrial and mining sectors. Based in Brisbane, Australia, the company has established a reputation for quality, reliability and has relationships with major Australian and multinational companies.

Power Electric Switchboards' customers include BHP Billiton, Xstrata, Wesfarmers, and Rio Tinto and, we are the preferred supplier to dragline and mining shovel manufacturers, city councils and major electrical contractors.



Quality  
Endorsed  
Company

Power Electric Switchboards is a subsidiary of the DPSA Group and has achieved accreditation for its Quality Management System in accordance with the AS/NZS ISO 9001: 2000 standard.

## PRODUCTS

Power Electric Switchboards specialises in the design and manufacture of:

- Motor Control Centres & Local Control Stations
- Main Power Distribution Switchboards
- Distribution Boards
- DCS Panels, Control Cubicles, Marshalling Cubicles

Customers can choose between a range of custom designed, fully welded Switchboards or Modular Switchboard systems.

### Custom Designed Switchboards

#### Features:

- Fully type tested modular control, Form 4, up to 80kA
- Fully welded construction
- Tested and certified IP rated enclosures
- Available in zinc steel, stainless steel and aluminium
- Arc fault containment

### Modular Switchboard Systems

Power Electric Switchboards is an accredited manufacturer of cost effective, high quality and fully type tested modular switchboard systems including:

- ABB ArTu Modular Switchboards
- B&R Systems
- Elsteel Techno Modular Switchboards

#### Features:

- Modular design allows unparalleled flexibility for main Switchboards, Distribution Boards, Motor Control Centres (MCCs), power correction centres and UPS applications, with changes possible during assembly or after commissioning
- Fixed or fully withdrawable construction
- Smooth powder coated finish in either grey or orange
- Type Test Certified - main busbar systems up to 7100 Amps, and fault level up to 100kA
- Internal Arc Fault and seismic vibration tested

## SERVICES

Power Electric Switchboards has in-house expertise to provide customers with design and drawing services needed to implement a wide scope of projects, and assistance with overall project coordination. These services include:

#### Design:

- Preliminary layouts to suit site parameters
- General arrangement drawings
- Sheetmetal detail drawings for in house construction purposes
- Single line diagrams and control schematics, where required
- 'As built' drawings
- Maintenance manuals
- Operator Instruction
- Site Audit and Rectification / Upgrade

#### Project Coordination:

- Production scheduling
- Logistics
- Design amendments
- Transportation and delivery



## MAJOR PROJECTS

### Rolleston Thermal Coal Project - Dragline Motor Control Centres

The Rolleston Thermal Coal Project is a \$500 million project which involved the acquisition and construction of two draglines in central Queensland in 2005 and 2007.

Power Electric Switchboards manufactured:

- The Motor Control Centres and Distribution Switchboards for the draglines; and
- The Main Switchboard and Distribution Switchboards for the Rolleston accommodation village.

### Lady Annie Copper Project

Ausenco Ltd contracted Power Electric Switchboards to design and manufacture the following Motor Control Centres for the Lady Annie Copper Project:

- Process Area MCC and switchroom
- Agglomeration and Acid Unloading MCC
- Primary and Booster Pump Station MCC's

The Lady Annie Copper Mine is based 150km North West of Mt Isa and was officially opened in 2007.



**Oxley Waste Water Treatment Plant**

### Oxley Waste Water Treatment Plant (WWTP)

The BWEA (Brisbane Water Enviro Alliance) upgrade to the Oxley Creek Waste Water Treatment Plant achieved major improvements in the wastewater treatment process including:

- A 90% reduction in the nitrogen content of treated wastewater
- An Australia-first thermal hydrolysis system that treats biosolids to a high standard, making them readily usable for soil and fertiliser applications
- Energy generation using methane gas produced during the treatment process, reducing the need for external power usage.

Power Electric Switchboards designed and manufactured eight Motor Control Centres during the plant upgrade.

### Westfield Chermside Shopping Centre Expansion

Power Electric Switchboards completed the design and manufacture of a Main Power Distribution Switchboard and Generator Switchboard, together with 14 Sub Distribution Boards and 128 Tenancy Distribution Boards to cater for the electrical services in the new section of the Westfield Chermside Shopping Centre completed in 2006.



## Quality Endorsement

Power Electric Switchboards is a Quality Endorsed Company, having achieved accreditation for its Quality Management System in accordance with the AS/NZS ISO 9001:2000 standard.

## Type testing

Our standard switchboard design has been Fully Type Tested (TTA) in accordance with Australian Standards AS/NZS 3439.1 – 2002 (Low Voltage Switchgear and Controlgear Assemblies Part 1) and AS/NZS3000 (Electrical Installations).

## Routine Factory Testing

To ensure trouble free installation and commissioning on site, all Power Electric Switchboards are strictly quality controlled throughout the manufacturing process and before dispatch with the following factory tests:

- Dielectric properties test
- Control functions
- Test and protective circuits
- Clearance and creepage distances
- Mechanical operation



### Power Electric Switchboards

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