

Electrical Division

CAPABILITY STATEMENT

EMS Group's dedicated electrical division specialises in electrical services and supplies for underground mining, tunneling, civil construction and rail industries across Australia.

Our highly skilled and efficient team offer expertise and electrical solutions that reduce costs, minimise downtime, and increase productivity.



A COMPLETE RANGE OF SPECIALISED ELECTRICAL SOLUTIONS

Cable Reclaiming Service



Save money and clean up your site with our complete cable reclaiming service. Our experienced team come to your site with the complete set up: a high-powered cable reclaimer fitted to a Volvo L120 tool carrier, man cage, rollers, tooling and other requirements.

Electrical Labour Hire



We provide solutions for fixed, short or long-term labour hire, and offer multi-skilled and highly qualified electricians (e.g. instrumentation, high-voltage, mill and underground), site supervisors, and complete crews. Our team operates in every state of Australia and is available for any site and any roster.

Trailing Cable Exchange & Repairs



Never be short of trailing cables or left waiting for yours to come back from repair. We will replace your unserviceable cable while it's being repaired so you don't experience any downtime.

EMS Group operates in every state of Australia, so we may even have cable on consignment sitting on your site ready to go.

Construction & Project Work



Our multi-skilled team of project managers, project supervisors and project electricians are experienced in the delivery of complete electrical and instrumentation projects. From design and installation through to commissioning and handover. No project is too big, too small, or too remote.

Engineering

Our qualified electrical and communication engineering personnel offer a broad spectrum of specialised services, including drafting, detailed design and engineering, electrical engineering and design, management plans, auditing and compliance, and can ensure your project complies to the highest standards regulatory requirements.

Switchboard Manufacturing



EMS Group design and manufacture a wide variety of AS2081 compliant electrical switchboards and substations, 1000V and 415V starter boards and distribution boards. We also provide full support including spare parts, installation and service.

Electrical Products For Sale or Hire



We offer wholesale pricing on a range of consumable products, including low and high voltage power, control, and trailing cable, SWA cable, flygt pumps (5kW - 37kW), and ventilation fans. We also offer some of the best repair and hire deals in the market.

EXTENSIVE HIGH VOLTAGE SERVICES

- ▶ HV switching
- ▶ HV cable testing and commissioning (insulation resistance testing, ductor testing, VLF testing)
- ▶ HV substation testing and commissioning
- ▶ Overhead line modifications
- ▶ Removal of OHL bays, replaced with UG cable
- ▶ Pole top terminations
- ▶ Installation of new cross arms and insulators
- ▶ Paper lead to XLPE crossover joining
- ▶ Onsite permanent substation installations (66kv, 33kv, 22kv and 11kv)
- ▶ XLPE cable installs and terminations (ABB cold shrink and Raychem heat shrink)
- ▶ XLPE cable installation down bore holes and escape ways (including a 600m vertical run down a raisebore hole)
- ▶ Onsite and workshop substation repairs and overhauls
- ▶ Surface and UG portable mining substation installations
- ▶ Insulation of CMI and Ausproof bolted couplers
- ▶ Locate and repair failed cables, terminations and joints (including the use of a Thumper)
- ▶ Extensive experience with ABB, Schneider, GELPAC BV AMS & Lucy switchgear
- ▶ Terminations on HV drives and motors (ABB ACS6000 & Toshiba drive)

OUR HIGHLY SKILLED, TECHNICALLY COMPETENT, EXPERIENCED TEAM

EMS GROUP'S CORE ELECTRICAL TEAM CONSISTS OF:



Steve Nugent

Electrical Manager

Industry Experience:

10 years (electrical and mining)

Qualifications:

- Advanced Diploma of Electrical Engineering
- Diploma of Leadership and Management
- Cert III Electrotechnology (Electrician)
- High Voltage Cable Jointing and Terminating

Skills & Expertise:

- Contract management
- Project management
- Commissioning and handover
- Safety and incident management
- Staff management and training
- Electrical engineering
- Mining development
- Commercial electrical installations
- Supervision and construction
- Maintenance and construction
- High and low voltage installations

Peter Johnson

NSW Project Supervisor

Industry Experience: 7.5 years (electrical construction in mining)

Qualifications:

- Optical fibre communications licence
- High voltage licence
- High voltage switching
- PLC programming
- Job Safety Environmental Analysis
- Cert III in Electro-Technology
- Cert IV instrumentation

Skills & Expertise:

- Project management, from design through to handover
- Commissioning and handover
- Maintenance and construction
- Supervision and construction
- Safety paperwork
- High and low voltage installations
- High Voltage shutdowns, joining and repairs
- Electrical maintenance of fixed and mobile plant (heavy diesel machinery)
- Flygt pump rebuilds
- Fault finding
- Underground drills and automation
- Mining development
- Fixed plant surface milling

Matt Brown

Regional Project Supervisor

Industry Experience: 9 years (electrical and mining)

Qualifications:

- Cert III Electrotechnology (Electrician)
- Certificate of Proficiency (Electrical Mechanic)
- High Voltage Isolation
- High Voltage Termination
- EWP (High Risk) Licence
- Bobcat Licence
- Excavator Licence
- Open Cabling (Telecommunications) Licence

Skills & Expertise:

- Domestic, commercial, industrial and mining electrical services
- Electrical engineering
- Project supervision
- Power station installations
- Power pole installations
- Generator installations and change over switches
- Switchboard builds and installations
- Pump station upgrades
- Meter connection and main connection boxes
- PLC programming
- Fault finding factories
- Jumbo repairs
- Earthworks
- Heavy machinery operation

Matt Hornsby

HV Supervisor

Industry Experience: 16 years' experience in electrical and mining industries

Qualifications:

- Certificate III in Engineering Electrical/Electronic Trade (MEM 30498)
- Certificate IV Front Line Management

Skills & Expertise:

- Project management
- Maintenance management
- Incident management
- Staff management and training
- High and low voltage installations
- High Voltage shutdowns, joining and repairs
- Electrical maintenance of fixed and mobile plant (heavy diesel machinery)
- Flygt pump rebuilds
- Fault finding

BUILT AND MANAGED FROM THE GROUND UP



Tom Cavanagh

Director

The founder and director of EMS Group is a diesel mechanic by trade with extensive, hands-on experience in underground mining. Tom has built a solutions-focused company supported by a highly motivated and dedicated team of professionals committed to Tom's vision for EMS: to keep our customers up and running; to minimise their downtime and increase productivity.



Craig Ellison

General Manager

Craig is a third-generation electrician with a wealth of experience in underground and surface mining across Australia. In his 30+ years in the industry, Craig has overseen the start-up of a greenfield mine site through to full operation, developed teams and businesses from scratch.

**GET RUNNING,
STAY RUNNING**



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