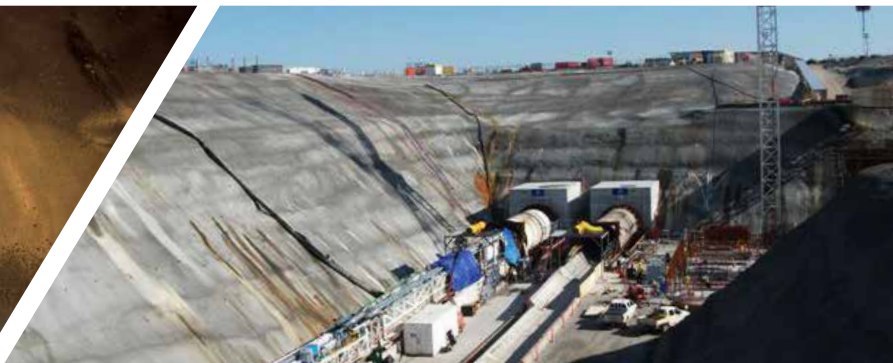

TUNNELLING SOLUTIONS



CONNECTING YOU TO WORLD-CLASS ELECTRICAL TUNNELLING SOLUTIONS

Amcontrol designs, manufactures and delivers cost effective and integrated electrical solutions for tunnelling and infrastructure projects that improve safety, efficiency and flexibility.

Our proven engineering and manufacturing experience has enabled us to integrate our wide variety of product streams into customised turnkey solutions for tunnelling and infrastructure projects around the globe. We are a single source provider of power distribution, automation and HV service solutions.

Our integrated solutions include:

- Turnkey power distribution systems, both temporary and permanent
- Communications, tagging and tracking
- Environmental monitoring, evacuation and control systems
- Lighting systems
- TBM, roadheader, above ground, transportable, containerised and below ground substations
- Equipment monitoring and protection
- Fans and pump starters

The strength of our innovative solutions lies in our specialised engineers who are committed to discovering, developing and implementing market leading technology.

We are proud that our team has led the way and created industry benchmarks such as integrated fire evacuation and flood warning systems and new generation LED lighting.

Our business model is focused on delivering efficient, flexible and safer technical outcomes, coupled with quality manufacturing. From design to final delivery, installation and commissioning, we take each solution in hand to ensure it meets specifications and performs as it should.

We fully support the products we manufacture and understand the value of flexible product lifecycle support in ensuring optimised performance and safer projects.

Our strategically positioned operations around the globe mean our highly specialised engineers and service teams are on hand to help our customers meet varying project requirements and extract maximum value from their electrical investments. We do this through engineering consultancy, project management, auditing and testing, maintenance, repairs, training packages, system analysis and on site services.





Power distribution

Ampcontrol has over four decades of experience designing and manufacturing above and under ground power distribution solutions for the tunnelling and infrastructure industries.

Our safe reliable solutions include:

- Transportable, kiosk and containerised substations for HV and MV infrastructure with quick efficient installation
- Transformers from 3 to 75MVA and primary voltages up to 132kV
- HV cables and relocation services
- High voltage switchyards
- Relocatable and modular switchrooms
- Generators
- Jumbo boxes
- Motor controls with VFD option
- Distribution boards
- HV/MV power quality solutions and voltage stabilisation systems
- Resistive load banks



Hire solutions

Ampcontrol's standard range of hire equipment is available when needed and can be customised to meet customer requirements. All of our hire equipment is fully tested and meets relevant Standards, including our overhauled and upgraded equipment.

The wide range of hire solutions ensures customer's operations can continue efficiently and also assist with reducing capital costs.

Our hire solutions include hire/buy back arrangements that can meet both short and long term requirements. We also provide flexible lease arrangement terms to ensure customers gain the latest in technology to meet varying project requirements.

Our hire range includes:

- Substations
- Transformers
- High voltage cables
- Switchrooms
- HV power correction units
- Circuit breakers



Communications and control systems

We design, install and support customised communication, tagging, tracking, monitoring and control systems specifically for tunnelling projects. Our systems include:

- Communication systems between workers and control rooms via underground radio, mobiles, fixed phones, WiFi and LTE
- Primary and secondary ventilation control and monitoring through leaky feeder systems incorporating emergency paging, stench gas and blue light evacuation systems
- Fibre to the tunnel
- Dewatering control and monitoring
- Trunked digital radio for above ground communication and GPS location through leaky feeder and distributed antenna systems
- Underground tagging and tracking of people and assets
- CCTV and thermal video networks
- Decline traffic management systems
- Remote systems management
- Adhoc telemetry integration

Environmental monitoring systems

Our large range of environmental monitoring systems and gas detectors are available for non-hazardous applications as well as hazardous environments using various explosion protection techniques.

Our environmental monitoring, evacuation and control systems include the following products:

- Self contained single, four channel and twelve channel system controllers
- Multi-channel (expandable) system controllers available in rack mounted or stand alone applications
- Single cable, multi-sensor environmental monitoring systems
- Fire/Gas/Emergency shut down (ESD) control and monitoring systems
- Gas sensor range covering; CH₄, NO, O₂, CO

Site wide lighting systems

Ampcontrol's Burn Brite lights are built to withstand arduous conditions in both above and under ground tunnelling and construction environments.

From conveyor lighting systems to specifically designed lengthy tunnelling solutions, Ampcontrol Burn Brite has LED and fluorescent lighting solutions for all types of tunnelling and infrastructure project requirements.

Our Alpha-Lite is an advanced technology LED lighting solution specifically designed for tunnelling, construction and industrial applications.

Alpha-Lite's robust IP68 construction withstands the harsh physical demands of these environments while providing high intensity output and superior energy efficiency. The light boasts wide operating voltage range drivers, from 90 – 265VAC, meaning an installed system won't dim even along very long power cables.

Automation

Ampcontrol provides complete, integrated, end to end automation and process control solutions for tunnelling and infrastructure projects. With the ability to customise and integrate Ampcontrol products and systems we optimise project operations to improve safety, efficiency and productivity.

Our core competencies include products and services in the following key disciplines:

- Automation and process control
- Information technology
- MES and software solutions
- Electrical instrumentation solutions
- PLC, telemetry and SCADA solutions



COMPLETE LIFECYCLE SERVICES

1

Engineering

We provide a wide range of engineering services in the fields of project management, engineering design, installation and commissioning, maintenance management, electronic and applications engineering.

2

Overhauls and repairs

Our extensive workshop and field resources are available to repair, upgrade and overhaul high voltage electrical and electronic equipment for the tunnelling and infrastructure industries.

Not only can we provide HV cable repairs, transformer overhauls, certified flameproof overhauls and electronics repairs, we have a wide range of power hire solutions.

This covers a diverse range of new and overhauled power distribution equipment which is readily available to minimise operational downtime.

3

Asset management

Ampcontrol's asset management services ensure your high voltage electrical equipment operates at maximum efficiency by optimising assets and reducing equipment outages and repairs through proactive periodic maintenance schedules.

We provide comprehensive auditing, testing and analysis including:

- Power quality audits
- HV condition and compliance audits
- Harmonic and energy analysis
- Protection system analysis
- Earth grid design and testing
- Installation management plans

4

Onsite services

Ampcontrol's on site services encompass installation and commissioning, maintenance, electronic equipment repairs and calibration, and high voltage equipment testing and repairs.

5

Training

To help our customers operate the products and solutions we provide, Ampcontrol conducts specialised training sessions and instructional courses related to our custom manufactured electrical equipment, relays and other electronic products, their applications and diagnostic features.

ampcontrolgroup.com



1300 267 373

customerservice@ampcontrolgroup.com

