



CORROSION CONTROL



**TOGETHER
TO GET THERE**



CORROSION CONTROL

A wealth of experience

The history of cathodic protection (CP) dates back to 1824, when the eminent chemist and inventor Sir Humphry Davy, in a project financed by the British Navy, succeeded in protecting copper sheathing on ship hulls against corrosion from seawater by attaching iron anodes to the copper. Davy discovered that small "protectors" of soft iron preserved the copper by the iron gradually dissolving in a galvanic process.

CP has since developed enormously and is recognised and used by industry as a vital part in preserving and extending the life cycle of critical structures that maybe prone to attack by corrosion.

With over 60 years in the industry BAC Corrosion Control Ltd (BAC) offer clients, a comprehensive and bespoke corrosion control service from corrosion monitoring, CP system design, manufacturing, product supply, site services to consultancy and training.

Our Vision is to protect the safety, long life, and environmental integrity of our clients assets by providing the highest quality, affordable corrosion control solutions and products.

Where we come from...

► 1954

Metal and Pipeline Endurance Ltd, UK (MAPEL) specialising in CP and NDT was formed by William Press & Son Ltd, later to become part of the AMEC Group.

► 1957

Bergsøe Anti Corrosion A/S (BAC) A foundry established in Denmark, specialising in the production of Zinc and Aluminium anodes.

► 1978

Global Cathodic Protection Ltd was formed by a group of eminent corrosion engineers specialising in CP engineering and surveys.

► 1986

BAC acquired Global Cathodic Protection Ltd

► 1994

Global Cathodic Protection Ltd changed it's name to BAC Global and acquired the cathodic protection division of MAPEL from AMEC.

► 1997

Group reorganisation resulted in the creation of **BAC Corrosion Control Ltd**. **Bright Bond AB** relocated the Pin Brazing factory to Telford, UK.

► 2012

BAC acquired **Rose Corrosion Services Ltd (RCSL Corrosion Monitoring)**, a world class company specialising in corrosion monitoring and inhibition in the oil, gas and water industries.

BAC are proud to be a member of MIDROC EUROPE a major international industrial organisation based in Sweden



We deliver the products and services you need

Our engineers will consult with you and propose a corrosion control solution best suited to protect your assets. We will present you with a detailed proposal based on your particular requirements. The work will then be handled through one, or a combination of our dedicated divisions.

Projects

Specialising in CP design, site surveys, supervision of installation and commissioning. We embrace the opportunity to provide a complete turn-key service to our clients to ensure complete client satisfaction from design through to commissioning. BAC has established a worldwide network of agents to ensure a fast response and attention to site detail that our valued clients require. We can also offer bespoke training courses and consultancy services to complement our engineering scope of supply.

Manpower Services

Our team of qualified engineers and technicians ensure that our client's corrosion control systems are regularly monitored and maintained for total peace of mind. We are fully equipped to undertake a full range of CP surveys including Close interval Potential Surveys, Direct Current Voltage Gradient Surveys, Soil Resistivities, Pearson Surveys, Current Drain, Elogl, AC monitoring and mitigation. Our clients can be assured of the ongoing health and status of their Cathodic Protection systems and prioritise maintenance and repair in a systematic and controlled manner to ensure compliance with regulations.

Product Sales

We stock and supply a unique, complete and comprehensive range of corrosion control products from our own design and manufacture, through to being distributors of several established leading brands. We also have approved distributors appointed and trained worldwide for local and regional sales and services. We work diligently to ensure you will receive accurate, competitive and technically compliant bids in a timely manner and once the order is received our customers services will ensure you receive the right products at the right time.

Manufacturing

From our UK facility and incorporating our technical development department we innovate, design and manufacture products and systems to the highest quality standards including our Easybond Pin Brazing system, Infinity Power sources, remote monitoring and control systems, specialised anodes, impressed current and galvanic CP systems and corrosion monitoring equipment. BAC is fully accredited to ISO9001, ISO14001 and ISO18001 by BM Trada.





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Pin Brazing

BAC manufacture a complete range of Pin Brazing equipment including our signature Easybond Pin Brazing units, consumables, spares and offer full technical support and training courses. Pin brazing is used to ensure a safe electrical connection to different types of metal. The pin brazing process is ideally suited for many applications including continuity bonding between pipes, connecting measuring and test cables, and the installation of sacrificial anodes and test posts.

Pin Brazing's low heat, reduced hardness and copper penetration make it ideal for high specification steels.

Infinity Power Supplies

BAC design and manufacture a wide range of Cathodic Protection power supplies from the smallest Switch Mode unit to the largest oil cooled thyristor controlled Transformer Rectifiers. We can also offer ATEX certified units for hazardous area installation and multi-channel units for Steel in Concrete applications. All units can be configured for remote monitoring and control with our Infinity Power, control and monitoring software packages and interface technology.

Cathodic Protection

BAC can cater for every part of your Cathodic Protection requirements. With BAC as your manufacturer you are dealing with experienced professionals who understand the quality and diversity of products required by our customers. BAC produce a bespoke or standard range of Transformer Rectifiers, test and survey equipment, Impressed Current Anodes, Galvanic Anodes, Junction Boxes, Test Posts, Reference Electrodes, Cables, Isolation and Surge Protection devices and all associated accessories and tools to offer a one stop CP shop solution.



Focusing on our clients' industries

Working with our clients we have developed our products and services to best serve the market sectors in which they operate.

Industrial

Within all petrochemical and Industrial facilities storage tanks, flow lines, vessels, drains, foundation structures and well casings all require and benefit from the application of CP and corrosion control systems. BAC can design, manufacture and install systems for the most complex industrial plant areas, storage tanks farms and process plant often working within space constraints and dealing with interaction and isolation issues that need attention at design and installation stage to ensure successful operation.

- >> **Foster Wheeler** CP design, supply and supervision Malampaya Onshore Gas Terminal, Philippines.
- >> **TATA Steel** CP design, supply, supervision, and maintenance, Steelworks, South Wales, UK.

Marine

BAC designs and supplies Impressed Current and Galvanic Cathodic Protection systems to a wide range of offshore and marine structures including, piers, jetties platforms, jackets, sheet and tubular piling. Care is always taken to consider overall installation costs, design lifetime and ongoing maintenance and monitoring costs when designing a solution for our clients. BAC also has a long history of protecting a wide range of maritime vessels from pleasure craft to oil tankers to the latest fast ferry designs - we can provide a solution.

- >> **BP Oil** CP design, supply, supervision, and maintenance of Hound Point Jetty and MVRP Platform, UK.
- >> **Tilbury Terminals** CP design, supply, supervision and maintenance, Tilbury Container Dock, UK.





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Steel in Concrete

Cathodic Protection of steel rebar in concrete is increasingly recognised as an effective and efficient way of prolonging critical structures particularly in corrosive environments. BAC not only offers a full turnkey engineering and design service but also a full range of products from our Infinity Power, monitoring and control units, mixed metal oxide anodes, reference electrodes and LPR probes and meters.

- >> **MMRA** Supply of CP Materials for Pre-stressed concrete pipes, Libya.
- >> **MTL (China Harbour)** CP design, supply, (with remote monitoring and control) and commissioning at MTL Container Port, Hong Kong.

Pipelines

BAC Systems protect thousands of kilometres of pipelines worldwide. From high pressure gas transmission and distribution networks through to water, oil and product pipelines in every corner of the globe. Whether you have a new build project or an aged asset in need of rehabilitation BAC can survey, design, supply and install a system to meet your requirements.

- >> **National Grid** Supply of CP Power Supplies, Gas transmission pipeline network upgrade, UK.
- >> **GAMA** CP Supply and commissioning, Disi Water Project, Jordan.



Power Stations

BAC has numerous international references for CP in Power Plants. We can protect condenser water boxes, cooling water intake and discharge pipes, trash rack band screens, pumps and other associated equipment. Cathodic Protection is rarely more critical than when applied to power plants and our clients benefit from the use of our Infinity Power, control and monitoring systems which can provide reliable and accurate remote monitoring and control of the CP system.

- >> **EDF Energy** CP design, supply, supervision , and maintenance Torness Nuclear PS, Scotland, UK.
- >> **Sulzer Hydro** CP design, supply and supervision, Arkansas River Dam, USA.

Rail



Our Bright-Bond division offer a complete range of Pin Brazing equipment, consumables and fixings for the rail industry worldwide. We can provide in depth training and technical support and work hand in hand with our customers to ensure downtime is a thing of the past. Our electronic controlled Pin Brazing units offer the ultimate in reliability and performance to ensure a consistent braze connection.

- >> **Channel Tunnel** Supply of Pin Brazing for rail bonding - UK/France.
- >> **London Underground** Supply of Pin Brazing for rail bonding and rail heaters on track - UK.



Providing solutions worldwide

BAC has a proud history of working on a diverse range of engineering projects globally. Our clients include end user companies, major EPC contractors, engineering design houses, government organisations and general engineering companies. BAC has regional offices, representatives and distributors in six continents to service all our market sectors. Through our fully integrated management system our clients are reassured that we work to the highest quality standards.



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