

# PRODUCTS, MATERIALS & EQUIPMENT FOR THE **CATHODIC PROTECTION & PIPELINE INDUSTRIES**

## CONTACT US

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*Australasia's Largest &  
Most Experienced Cathodic  
Protection Specialist*



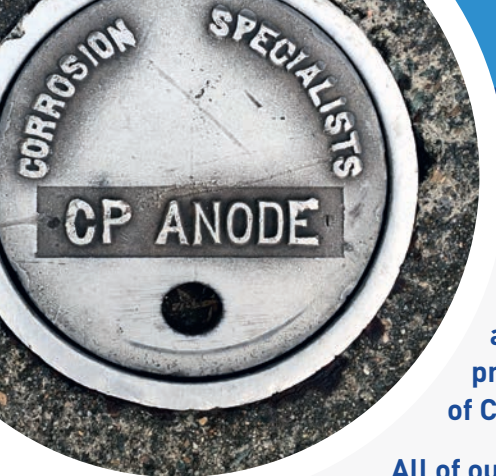
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*Our Experience Delivers Solutions.*







**Corrosion Control Engineering (CCE) is Australasia's largest and most experienced specialist Cathodic Protection service provider and is also the premier supplier of an extensive range of CP and pipeline related products and equipment.**

**All of our offices are staffed with highly qualified and experienced corrosion engineers and technicians, as well as product and equipment specialists.**

**Our regional warehouses stock a full inventory of Cathodic Protection and pipeline related products, materials and technical equipment.**

**CCE's regional office locations throughout Australia and New Zealand mean reduced shipping costs for products and materials supplied to our customers. Our local presence means we have the ability to expedite the dispatch of materials all over Australasia at short notice, whenever required.**

## PRODUCTS & MATERIALS

**Anodes & Backfill:** CCE offers a large range of anode types and sizes for use in all industries that require protection of equipment and infrastructure from corrosion. Materials include Aluminium, Magnesium, Zinc, Silicon iron, Mixed Metal Oxide, Platinised Titanium, Lead Silver, and Graphite, either standard or specially designed to suit your needs. We also supply Low Resistivity anode backfill materials for anodes and earthing systems.

**Zinc & Magnesium Ribbon Anodes:** Zinc ribbon anodes can provide a cost effective, maintenance free method of corrosion control for buried or immersed metals such as iron, steel, aluminium, copper, etc. Extruded magnesium anode ribbon is a flexible anode material generally used in high resistivity water or soil.

**Transformer Rectifiers:** Standard or customised, oil cooled, solar and remote monitoring for impressed current CP systems.

**CP Test Points, Stands, Cabling & Thermit Weld Materials:** CCE supplies a variety of CP test point boxes, associated cabling and exothermic welding materials to suit your needs. Test points can be configured to suit the individual and/or project requirements, and can be supplied to suit the environment. Test points are available in Aluminium, Plastic and Stainless Steel.

**Flange Insulation Kits (FIK's):** Flange Insulation Kits are available for all flange sizes, types, pressure ratings and materials. CCE has distributor rights with a number of manufacturers, giving access to a broad range of gaskets, sleeves and washers. FIK's have proven to be one of the most effective and reliable products for controlling and maintaining the integrity of piping and tank systems under demanding conditions.

**Monolithic Insulating Joints (MIJ's):** Monolithic Insulating Joints are used for the sectioning of main pipelines in the Oil, Gas and Water industries to ensure full efficiency of cathodic protection systems against corrosion. CCE supplies MIJ's manufactured by Zunt Italiana, who have been designing and manufacturing MIJ's for over 20 years. The insulating Joints are designed, manufactured and tested in full compliance with the most stringent international Standards and Client specifications. Fittings are available in flanged, weld/weld and screwed ends.

**Surge Protection & Decouplers:** CCE supplies a range of surge diverters and solid state decouplers to provide continuous and transient AC high voltage/current conduction to earth whilst maintaining DC isolation of cathodic protection systems to specified levels. These are designed to protect personnel and equipment from electrical disturbances.

**Barrel Unions:** Insulating unions are generally installed above ground to provide electrical isolation for well heads, regulator stations, processing plants, gauge lines, fuel supply lines, water lines and other pipeline applications. Unions are available for use in pressure applications, up to 3000 psi.

**Reference Cells/Electrodes:** CCE supplies reference electrodes to suit all applications. There are many portable and permanent types available including: Copper/copper sulphate, silver/silver chloride, zinc and special purpose for immersion, burial, or concrete applications.



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CCE is the Australian distributor for M.C. Miller and Borin, both recognised leaders in the corrosion control industry, offering Reference Electrodes/Half-Cells and other miscellaneous products.

Contact your local CCE office for assistance with product selection and availability.

**Pigging Equipment:** CCE offers a full range of pipeline cleaning and gauging pigs manufactured by the world's leading suppliers.

**Corrosion Monitoring Equipment:** CCE works closely with Rohrback Cosasco Systems (RCS) to provide corrosion monitoring solutions to the industry. Corrosion Probes, Corrosion Coupons, Wireless Corrosion Monitoring, Erosion Monitoring, Retrieval Tools and many more solutions are available.

**Pipeline Casing Spacers:** Casing insulators are used to support and electrically insulate a pipeline from a casing pipe. Spacers are available in different varieties and pipe diameters.

### Other Associated Products:

CCE regional offices stock a wide range of associated equipment and materials. Our worldwide manufacturing and supply capabilities also include:

- Pipeline repair sleeves
- Speciality cables and heat shrink materials.
- Radolid Caps. Manufactured to suit most nut and bolt combinations, these caps are used in a vast number of industries to protect bolted connections against corrosion.
- Ship impressed current CP systems.
- Electronic descaling systems for ships ballast tanks. Sacrificial zinc and aluminium hull and tank anodes.
- Marine Growth Prevention system (MGPS) - Electrolytic anti-fouling systems.
- Corrosion inhibition for all applications, including vapour phase.
- Thermit welding moulds and weld material
- Linkseals, warning tape, Flowstop bags etc.



## TECHNICAL EQUIPMENT

Corrosion Control Engineering supply a wide range of cathodic protection and pipeline related technical equipment. Our worldwide manufacturing and supply capabilities include:

### DCVG Pipeline Coating Defect Survey Equipment.

CCE developed the Pipescan II DCVG equipment following extensive research, based on their own field surveys and ongoing customer interaction, to ensure the industry benefits in improved quality control and pipeline coating integrity assessment.

### CIPS - Close Interval Potential Survey Equipment.

For close spaced cathodic protection potential surveys on pipelines. Manufactured by MC Miller and distributed by CCE.

**Transformer Rectifiers.** Standard or customised, oil cooled, solar and remote monitoring for impressed current CP systems.

**Data Loggers & GPS Current Interrupters.** CCE supplies the MiniLog2 Data Logger and GPS Interrupter by Weilekes Elektronik. Used in data logger mode, the MiniLog2 samples for both DC and AC simultaneously. In interrupter mode, the built-in relay switches fully GPS synchronized interrupting.

**Remote CP Monitoring.** CCE supplies the MiniTrans Mains-independent Remote Test Point Monitoring system by Weilekes Elektronik. MiniTrans has been specially designed for automated wireless remote monitoring of cathodic protection systems to monitor such values like 'on' and 'off' potentials, AC voltages, currents and microvolts. Introduction of low-energy hardware and latest GSM radio technology allows 3 years of daily measurements and monitoring operations without battery change.

**Corrosion Monitoring.** CCE is the Australasian partner for Permasense, the world leader in the field of non-intrusive continuous integrity monitoring systems, providing real-time data-to-desk measurement of pipe wall thicknesses in inhospitable and inaccessible environments.

**DC Current Clamp (Swain) Meter.** Portable DC Current Clamp Ammeters by Swain Meter.

**Soil Resistivity Testing Equipment.** To enable the user to perform the Wenner Four-Pin and Soil Methods. Manufactured by MC Miller and distributed by CCE.

**Pipeline Locators.** CCE supplies the Vivax Metrotech range of locators. Pipeline locating and Defect Mapper equipment can save you time and money in locating underground pipes, cables and shorts. We can supply the correct locator for your requirements, including CCTV Sewer/Duct Inspection. Water leak detection equipment is also available along with Sondes, Clamps and tracing cable.

