



Marine Cathodic Protection – January 2018



*Smart® Products
reducing cost and installation
time on Corrosion Projects*

Corrosion Protection - Using ICCP Systems

HCL Products used for Cable Management

A Smart® Protector

The 500-1721 Protector enhances the management and protection of the ICCP Cable



B Smart® Band 19mm

The 19mm Band is highly suited to clamping the ICCP cable on larger diameter structures



Smart® Ties

High strength and non-corrosive ideal for clamping ICCP Cable around smaller diameters



2000 Tool

The manual 2000 tool is ideal for fast installation of 19mm Smart® Band & Smart® Ties around the structure



HCL Products used for Reference Electrode and Anode Attachment

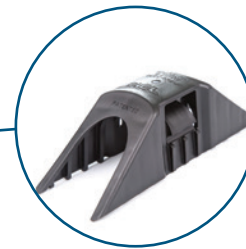
C HCL ICCP Saddle

HCL can accommodate Clients particular needs when it comes to stand-off dimension from the pile surface



D Smart® Protector

The 500-3338 Protector is used in conjunction with the 32mm Band to install and retain the electrode



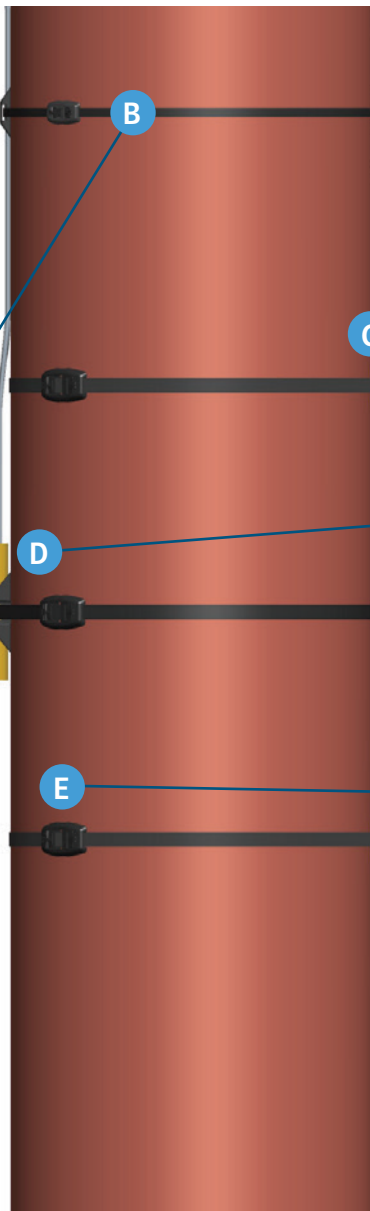
E Smart® Band 32mm

This High Strength System retains both the ICCP Anode and the Reference Electrode securely to the structure



1000 Tool

The 1000 tool with Torque control is used with the 32mm Band to provide consistent and high retention force



The installation of ICCP systems onto Port structures is often time consuming and expensive. Utilising the HCL Smart® Band, Cable protectors and saddle system can greatly reduce both material cost and installation time. Additionally the HCL solution provides many benefits on a technical level which have been highlighted below.

Benefits:

Only basic diving requirement.
No powered plant required on site

A "soft fit" with no penetration of the existing surface coating required

Smart® Band can be cut off.
Very easy to replace anodes

Ties, Bands and Protectors can be used as an alternative

Smart® Band will fit any irregular pile

Saves days on installation time

Heavy custom made steel hoops are not required

Corrosion Protection – Sacrificial Anodes

HCL Products used for Anode attachment

1000 Tool

The 1000 tool with torque control is used with the 32mm Band to provide consistent and high retention force throughout the installation



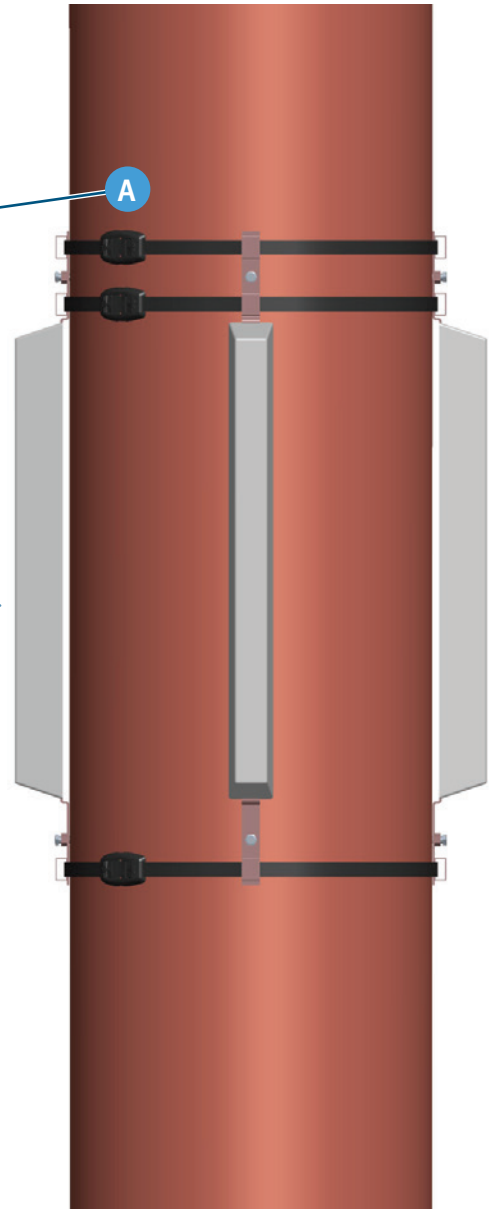
A Smart® Band 32mm

The Smart® Band 32mm System is used to secure the sacrificial anodes to the structure – eliminating the requirement for either welding or the use of steel frames

Traditional Sacrificial Anode attachment requires expensive steel cages fabricated to fit pile diameters or underwater welding in bad visibility.

HCL is able to offer a non-ferrous alternative to Anode attachment eliminating the need for advance pile measurement surveys and mobilisation of heavy clamping packages to sometimes remote site locations.

With the added advantage of no power being required to fit HCL's Smart® Band and the products ability to be adapted to local configurations (without returning to base) introduces significant savings on installation time and materials.



HCL has a team of professional engineers ready to assist with your corrosion problems providing technical consultation and system solution advice.

Benefits:

Light weight and ready packaged

No survey required and easily replaced

Only required in certain zones

"Soft Fit". Does not damage existing coating

Anodes hung on hooks. Strap passed through loops and tensioned

All Long Life Polymers

No power tools or plant required

HCL Products providing solutions to the Marine, Offshore & Subsea Industry for 20 Years



Visit www.hclfasteners.com to view our complete range of products.

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