

# DEEPWATER

## SmartPod™

### Cathodic Protection for Deep Water Assets



The concrete mattress provides ample ballast to insure stability at the base.



This first generation SmartPod has one SunStation monitor with 3 readouts

#### Product Overview

The SmartPod system is an intelligent version of our well-proven RetroPod™ system. The system greatly simplifies deep water cathodic protection by providing a modular anode structure with on-board status-monitoring, using our patented SunStation™ technology (each unit contains 3 SunStation monitors)

Each SmartPod can protect a number of discreet subsea structures and can be configured to provide 20 yrs of cathodic protection to over 25,000 square feet of coated steel.

SmartPods can be quickly installed with any Work Class ROV system, and instant feedback on current output and potential of protected structures is displayed on the SunStation™ readout.

RetroClamps allow an ROV to connect to the subsea structures, and Polatrak® V-String™ reference electrodes provide the CP status.

Like all of Deepwater's innovative CP solutions, the SmartPod is guaranteed to perform.

#### Main Benefits

Is post installed, saves time and money, especially on pipeline installations.

Provides on-board monitoring, no more pipeline surveys or messing with portable CP probes.

Modular design, just figure how many square feet for how many years, then divide to get number of pods required.

Protects many thousands of feet of pipelines, eliminate need for bracelet anodes.

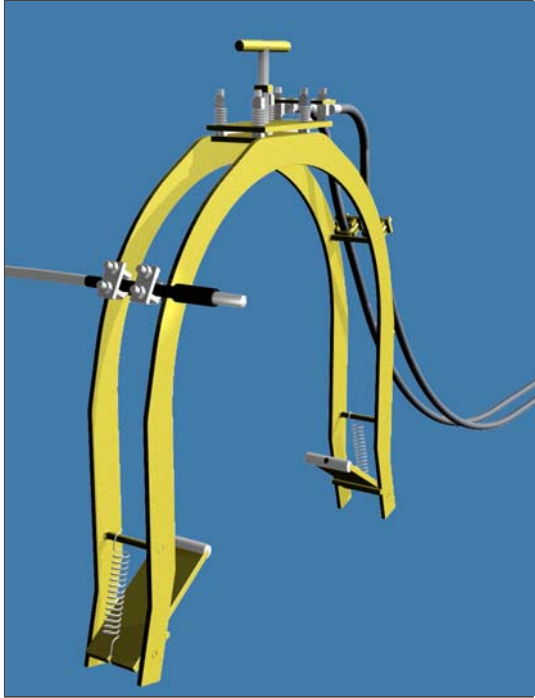
SmartPod allows pipeline coatings to be maintained at maximum efficiency.

#### Applications

Deepwater Subsea Equipment

Infield Flowline Protection

Deepwater Pipeline Protection



The RetroClamp; For certain applications, this clamp would connect the cathodic protection and secure the zinc electrode (pictured)

## Materials

SmartPod uses the highest available quality of sacrificial anode alloys. See product CD for details. All steel fabrication uses ASTM A 36 material and is performed in our own manufacturing facility as well as at sub-licensed facilities in various regions. Sub-licensees list available.

## SunStation™ (patent pending)

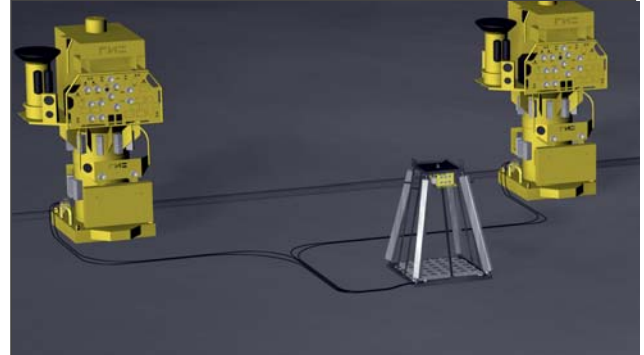
The Sunstation monitor is a self contained CP monitoring terminal, powered strictly by the light from an ROV. This eliminates the use of batteries, making it ideal for deep-water applications. Solar panels and LED's are housed separately in either Delrin (for use in < 300m) or Stainless Steel (for use in < 3000m).

## RetroClamp™ Tie Back

Each SmartPod is shipped with one or more RetroClamps; typical cables are 2 x 25 feet #4/0 AWG heavy duty flex cables. Thousands of these clamps are now in service around the world, and many have been installed by ROV. The installation efficiency of the RetroClamp has cut installation costs, and allowed for tie-back to any pipe or tubular. For more information about the RetroClamp: [www.stoprust.com](http://www.stoprust.com) or email [sales@stoprust.com](mailto:sales@stoprust.com).



The SunStation monitor, here shown on a deep water monitoring panel (solar panels below in separate housings)



This illustration shows a SmartPod protecting and monitoring two sub-sea trees



The first SmartPod had 3 readouts in one housing (left); The latest SmartPod separates the LEDs from the solar panels (right)

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**RETROPOD**