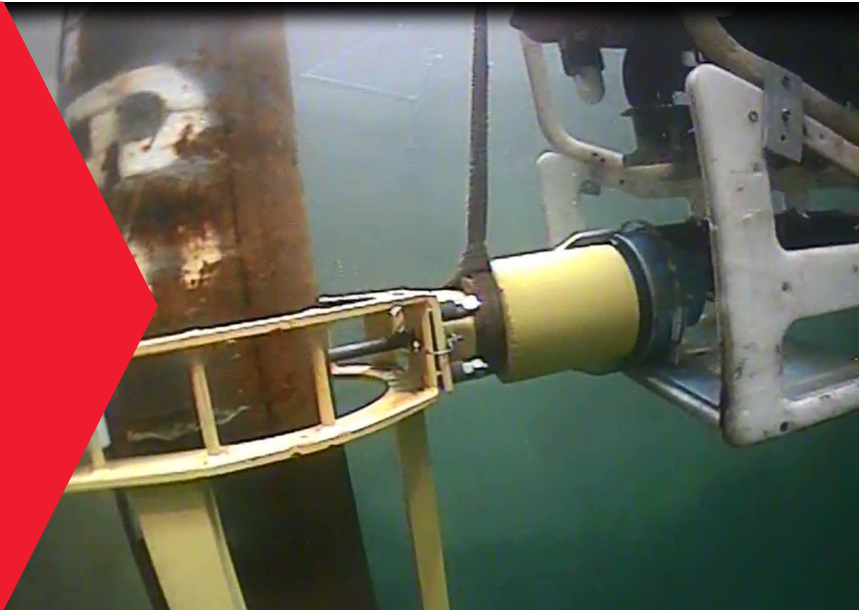


## About

Film-Ocean is an independent subsea contractor providing ROV inspection and intervention services. We specialise in providing innovative, cost effective subsea solutions to the global oil and gas industry and have an extensive track record in performing subsea integrity inspections on floating and fixed structures from the asset or support vessel with a fleet of high specification ROV's.

## Case Study Anode Installation



## Background

A requirement developed to provide services that would normally be associated with a workclass ROV system using one of our observation class ROV's.

Film-Ocean had already designed and produced a high performance hydraulic skid for our Falcon ROV's, this system was selected to provide the basis for a project that required the installation of retrofit anodes onto caissons where access was restricted.

### The Challenge

- Manoeuvring and installing large dual anodes frames into location.
- To supply sufficient hydraulic power using a small observation class ROV system to a torque tool.
- To ballast and trim a small inspection class ROV to allow for safe and efficient operations.
- Provide sufficient engagement force to guide and install the anodes into location.

### The Solution

- Utilise our high performance hydraulic skid on one of our Falcon ROV's with a hybrid tether.
- Identify and integrate a small light weight torque tool with the hydraulic skid.
- Develop deployment procedures to allow for the safe, efficient deployment and installation of the anode frames.
- The end solution was to deploy two Falcon ROV's to engage and secure the anode frames in position. This combined approach proved very effective with the project executed safely and 25% below budget.