film-ocean

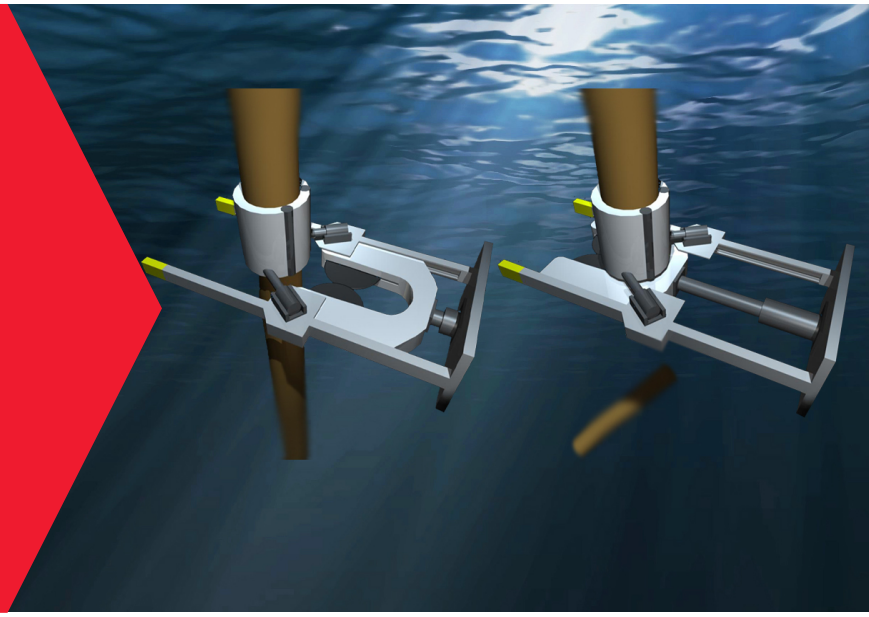
innovative subsea solutions

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

Rope Cutting System



Background

One of Film-Ocean's existing clients who we have completed a number of UWILD projects for, had a decommissioning requirement for one of its FPSO's. The project required large diameter mooring rope to be cut whilst under tension. For commercial reasons the risk of using an ROV to cut the rope in situ was not considered as an option and Film-Ocean was approached to develop and deliver a solution.

The Challenge

- The tool had to capable of being deployed by a mid-size observation class ROV or larger onto the mooring rope and then clamp in place allowing the ROV to relocate to a safe position whilst the rope is cut under tension.
- The tool had to be robustly designed and manufactured to prevent damage during the cutting process allowing for successive cuts to be undertaken.
- The sourcing of a hydraulic motor/pump capable of running the tool but retaining a small footprint.
- Selection of the type of cutting disk used during the operation.

The Solution

- Film-Ocean engineered a standalone twin disk cutting system which had a garage style deployment system. This allowed it to be lowered to depth where an ROV then engaged the cutting tool and located it onto the mooring rope in the correct position.
- The surface control system allows operation of the tool remotely allowing the ROV to recover to a safe position during the cutting phase of the operation.
- Film-Ocean engaged an Australian supplier who built and delivered a 65HP hydraulic motor and pump.
- During extensive trials a number of different types of cutting disks were used to establish the most efficient disk.
- The project was successfully executed offshore on schedule with no accident or incidents.

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