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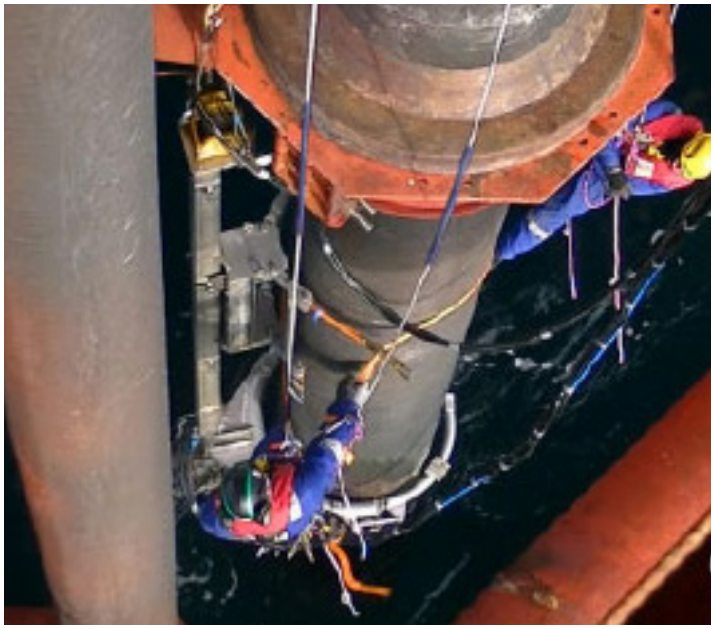
Splash Zone Riser Inspection Tool

Facilitating riser cleaning and inspection

We offer an innovative, rope access deployable splash zone riser inspection tool. Fully certified for offshore use, the tool consists of; a telescopic arm, a tool head comprising of cleaning and camera inspection facility, a power pack, and a recording and editing suite.



FEATURES

- **Enables removal of marine growth**
- **Deployable via rope access**
- **Provides high-resolution images and video**

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Splash Zone Riser Inspection Tool

Facilitating riser cleaning and inspection

We have engineered a safe, cost-effective solution for preparing and inspecting offshore risers in the difficult-to-access splash zone area.

Telescopic Arm

The telescopic arm includes a stainless steel box section and attaches to the riser. It extends to a length of 33 ft / 10 m and provides a subsea inspection capability of up to 26 ft / 8 m (depending on initial rigging position).

A hydraulically-operated winch mounted at the top of the tool controls the extension and retraction of the arm. This movement is monitored by the operator via a remote observation screen and digital gauge.

Tool Head

The tool head is fabricated from stainless steel and aluminum and is mounted to the bottom of the telescopic arm by means of a quick release pin assembly. The tool head includes the housing for the subsea camera and lights and two hydraulic motors that drive cleaning brushes.

Different brush types are available to enable marine growth removal while preventing damage to the riser's protective coating.

The camera incorporates a full pan and tilt capability; this combined with its low light capability enables General Visual Inspection (GVI) of ancillary items (anodes, clamps, etc.).

The tool head also facilitates connection of remotely-controlled ultrasonic thickness checking probes or Pulsed Eddy Current (PEC) probes.

Lower Clamp Assembly

The tool head is held in position by an interchangeable lower clamp assembly. The clamp can accommodate riser diameters from 6 to 36 inches and opens by means of hydraulic rams. This allows the tool to negotiate obstructions on the riser such as clamps or nozzles and prevents it from being detoured subsea.

Power Pack

The power pack consists of an EX motor driving a hydraulic pump. A series of positive pressure valves control movement on components of the tool. A monitor provides the power pack operator to view progress of the tool while it is deployed and supports advance identification of obstacles.

The hydraulic fluid used with the system is biodegradable and is conveyed by flexible hoses fitted with quick release couplings.

Operators

The tool is deployed and operated by a fully-trained and experienced team. The team members are multi-skilled and incorporate a cross-section of fully-qualified NDT inspectors.

The tool is shipped with a fully-equipped, containerized workshop that houses a full range of spares, accessories and rigging loft, including all necessary NDT and rope access equipment.

Camera and Editing Suite

The tool's camera is a specially-designed, high-resolution, low-light, and includes color dome functionality. It produced high-quality images from depths up to 10 m and is fitted with a 19:1 optical zoom lens.

The editing suite has the capability to edit and record on DVD format and also make multiple disk copies. The operator can overwrite text to the video and also record commentary or edit both during and after the inspection.

Helmet Camera

A new addition to the camera suite is the capability to record footage of the work scope being executed via the use of helmet cameras issued to the operating technician.