

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.

Falcon ROV System (LARS)



Product Overview

Film-Ocean's Falcon ROV system can be mobilised quickly and efficiently to allow for cost effective ROV inspection solutions. The system has a compact footprint that requires limited deck space, the system come with control cabin and launch and recovery system which is sited next to a handrail with direct access to sea below. The system requires limited plant services (440VAC and 6-8bar air supply) and can be operational within a single shift of being onsite.

Featuring a unique gravity based LARS system that does not require installation craneage to move into position and umbilical lengths of up to 1100m capacity complete, the Falcon ROV can be deployed quickly and efficiently. The system features a number of fibre optic passes allowing for High Definition cameras and other options such and 100 Mbps Ethernet connectivity allowing for complex ultrasonic tools and multibeam sonars to be utilised in addition to the more common inspection packages.

Falcon ROV (LARS) Specification

Power: 110-240Vac 50/60hz, 2.8KW nominal

Vehicle Dimensions: Length x Width x Height: 1.00m x 0.50m x 0.60m (300m rated) Length x Width x Height: 1.06m x 0.50m x 0.64m (1000m rated)

Weight: 60kg (300m rated) 100kg (1000m rated)

ROV

- Video Channels 3 simultaneous Video Channels & 1 switchable
- Cameras 1 x lowlight monochrome, 1 x colour (High definition available)
- Tilt Unit Electrical Tilt unit ± 90 degrees
- Lighting 2 x dimmable LED (mounted under tilt unit)
- Tritech Super Sea King Dual Frequency or Sea Prince Scanning Sonar
- Compass Flux-gate with solid-state rate stabilisation sensor Accuracy $\pm 1^\circ$, Resolution 0.35°
- Depth gauge Electronic pressure sensor Accuracy $\pm 0.1\%$
- Auto Pilot Auto Depth and Auto Heading
- Other Options Digital Stills Camera, CP System, FMD, mini-beacon, UT system, Leak Detection System, Gyro and Survey grade depth sensor, manipulator skid, water jetting, chain measuring

Launch and Recovery System (LARS)

Film-Ocean's launch and recovery system (LARS) is powered by standard ships air supply, through an Enerpac unit which converts air into hydraulic pressure. This drives the two rams, which controls the boom in and out operation of the framework. The launch and recovery system is assembled manually, secured to the deck with water tanks and additional strapping if required but no welding is necessary. The LARS is therefore completely Ex rated and eliminates all risk of a spark potential source. The complete assembly process, including integration of the winch takes approximately one hour.

To attach the ROV to the Launch and Recovery system, a latch and bullet assembly is utilised.

- Air supply, 2-8bar operational pressure, consumption 227-340 l/min and flow rate up to 0.16 l/min
- Footprint Length 2.5m x Width 3m
- Weight when assembled and filled with water 2,100Kgs, pre assembly each component can be manoeuvred by 2 people and represents <25kgs per person lifting load
- 160kgs SWL
- Shipped within ROV spare container and assembled onsite

ROV Performance

- 50 kgf Forward Thrust
- 28 kgf Lateral Thrust
- 13 kgf Vertical Thrust

ROV Control Container

- Dimensions: (Typical) Length 4.8m x Width 2.4m Height 2.6m
- Weight 8 tonnes
- Classification DNV 2.7-1 / EN 12079
- Equipment Fit Zone 2
- Transformers 1 x isolation for ROV 1 x domestic supplies
- ROV Control Unit Rack mounted control system with ROV Hand Controller
- Sonar Processor Rack mounted PC-based
- Video System 6 x Monitors
- HDD-DVD recorders and DVR system
- Video Overlay Date, time, heading, depth, tilt angle, auto functions, turns counter, CP