

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.

Inspection Class Super Mohawk ROV System



Product Overview

Film-Ocean's Sub Atlantic Super Mohawk ROV system comes complete with a Hydramech A-Frame Launch and Recovery System (LARS) and Sub Atlantic Tether Management System (TMS) making it ideal for vessel or platform inspections. With the added benefit of standard three phase subsea power distribution this allows for easy integration of a subsea water jetting skid and other enhanced tooling packages.

The Super Mohawk and its accompanying garage TMS are deployed from a Launch and Recovery System (LARS) consisting of an integral Winch, A-Frame and Hydraulic Power Pack. This gravity base Launch and Recovery System (LARS) is designed to be rapidly mobilised and is even able to work from a fixed platform without the need for a welded attachment to a deck to a working depth of 300msw. When welded the ROV can be deployed to its full operating capacity of 2000m.

Mohawk ROV Specification

Power: 380-480Vac 50/60hz, 60KVA nominal

Vehicle Dimensions: Length x Width x Height: 1.40m x 0.90m x 0.85m

Weight: 395kg

ROV

- Four pass fibre optic telemetry
- Ethernet I CWDM options for expansion of sensor suite
- 4 x video channels, 2 x RS 485 channels, 4 x RS 232 channels (1 dedicated to subCAN)
- Video Channels 2 simultaneous Video Channels & 1 switchable
- Cameras 1 x lowlight monochrome, 1 x colour (High definition available)
- Pan and Tilt Unit for camera systems ± 90 degrees
- Lighting 4 x dimmable LED (mounted under tilt unit)
- Tritech Super Sea King Dual Frequency 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
- Dual manipulator skid
- Other Options Digital Stills Camera, Cathodic Protection (CP) System, Flooded Member Detection (FMD), mini-beacon, Ultrasonic Thickness (UT) system, Leak Detection (LD) System, Gyro and Survey grade depth sensor, water jetting, chain measuring

Tether Management System (TMS)

- Sub Atlantic Garage Type 2 with up to 400m of umbilical
- Renowned in Industry for High Reliability
- Telescopic Frame Accommodates ROV Tool Skids
- Fully Electric with Single Drive Motor
- Corrosion Resistant Stainless Steel and Polypropylene Construction
- 200 metre Nominal Tether Capacity (more for smaller tethers)
- Unique, Simple, Reliable Drive System
- Accurate Spooling
- ROV Latching System

Umbilical Winch

- Max line pull at core: 4500Kg
- Capacity of 32mm armoured umbilical: 1.1m
- Line Speed: 0-30 metres/minute



Mohawk ROV Specification

ROV Control Container

- Dimensions: (Typical) Length 4.5m x Width 2.4m Height 2.6m
- Weight 8 tonnes
- Classification DNV 2.7-1 / EN 12079
- Safe Area
- 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

Launch and Recovery System (LARS)

- Classification BS EN 12079 : 1999
- Shipping weight: 14 tonnes
- Max outreach: 3.5m from edge of skid
- Dimensions: Length 6.05m x Width 2.43m
- Dynamic design factor: 3G
- Hydraulic Snubber
- Level Wind
- Safe Area LED deployment lights

ROV Performance

- 110 kgf Forward Thrust
- 75 kgf Lateral Thrust
- 45 kgf Vertical Thrust

