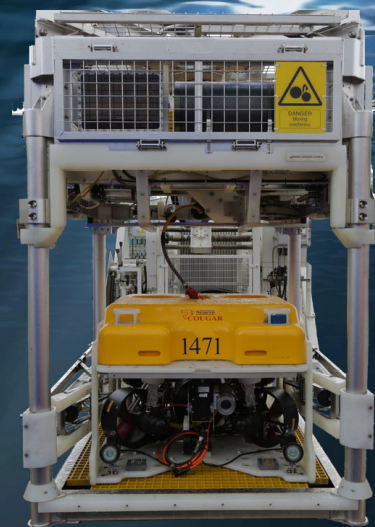


## About

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 Cougar-XT ROV System



## Product Overview

Film-Ocean's Seaeye Cougar-XT ROV system comes complete with a Hydramech A-Frame Launch and Recovery System (LARS) and Seaeye 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 Cougar-XT 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.

# Cougar-XT ROV Specification

**Power:** 380-480Vac 50/60hz, 38kVA nominal

**Vehicle Dimensions:** Length x Width x Height: 1.50m x 0.79m x 1.00m

**Weight:** 410kg

## ROV

- Two pass fibre optic telemetry
- Upgraded survey mux c/w ethernet options
- 4 x simultaneous video channels, 4 x RS 485 channels, 8 x RS 232 channels
- Cameras 1 x lowlight monochrome, 1 x colour (High definition available)
- Pan and Tilt Unit for camera systems  $\pm 90$  degrees
- Lighting 4 x 150W dimmable LED (mounted under tilt unit)
- Tritech Super Sea King Dual Frequency Scanning Sonar
- Compass Flux-gate with solid-state rate stabilisation sensor Accuracy  $\pm 0.5^\circ$ , Resolution  $0.35^\circ$
- Depth gauge Electronic pressure sensor Accuracy  $\pm 1.0\%$
- Auto Pilot, Auto Depth and Auto Heading
- 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

## ROV Performance

- 170 kgf Forward Thrust
- 120 kgf Lateral Thrust
- 110 kgf Vertical Thrust

## Umbilical Winch

- Drive: Direct drive to winch drum with failsafe multi-disc
- Line pull: 3000kg at first layer
- Line speed: 30m/min at core
- Drum capacity: 700m

## Tether Management System (TMS)

- Garage Type 8 with up to 250m 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

## Launch and Recovery System (LARS)

- Lloyds Register `Code for lifting Appliances in Marine Environment
- Shipping weight: 14.5 tonnes
- Max outreach: 2.8m from edge of skid
- Dimensions: Length 6.05m x Width 2.43m x Height 3.04m
- Dynamic design factor: 3G
- Hydraulic Snubber
- Level Wind
- Hazardous area Zone 2 (94/9EC ATEX Directive - Cat.3)

## ROV Control Container

- Dimensions: (Typical) Length 4.8m x Width 2.4m x Height 2.7m
- Weight 10 tonnes max gross weight
- Classification DNV 2.7-1 / EN 12079, 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 with date, time, heading, depth, tilt angle, auto functions, turns counter, CP