

## 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.

# Ultra Compact Work Class ATOM ROV System



## Product Overview

Atom is an ultra compact work class ROV comparable in size to an electric light work class ROV system. The vehicle is suitable for drill support, survey, IRM and light construction duties and can be mobilised on vessel and platforms with limited deck space. Designed with ease of operation and maintenance in mind, the Atom boasts the latest DVECII distributed control graphical displays and pilot aids coupled with proven powerful Curvetech components.

The Atom has the following features:

- Ultra compact work class ROV
- Easy to operate and maintain with small on-deck footprint
- Configurable for survey, drill support and renewable tasks
- The compact hydraulic high performance alternative to an electric light work class.

# Atom ROV Specification

**Power:** 100HP

**Vehicle Dimensions:** Length x Width x Height: 2.5m x 1.5m x 1.5m

**Weight:** 2000kg

## GENERAL

- Length 2520mm
- Width 1500mm
- Height 1500mm
- Depth Rating 3000msw
- Weight In Air (base system) 2000kg
- Payload (base system) 150kg
- Through Frame Lift 1500kg

## PERFORMANCE

### ***Bollard Pull:***

- Forward/Aft 550kgf
- Vertical/Up 330kgf

### ***Surface Performance:***

- Forward 3.5kn
- Lateral 2.8kn
- Vertical 2.0kn

## INSTRUMENTS/TOOLING

- Manipulator 1x7F pos feedback
- Grabber 1x4F rate, heavy duty
- Lighting 2xHID + 6 x LED
- ***Hydraulic channels***
- Standard 12ch iHCU (15LPM), 1ch (high flow)
- Optional Torque tool controller, 2ch iHCU (95LPM), 12ch iHCU (15LPM)

### ***Video capability***

- Standard 6 x channels composite
- 2 x HDTV channels
- ***Gyro***
- Fibre Optic Gyro Compass

### ***Survey***

- Multiple 1GB Ethernet / RS232 / RS485
- 24vDC/48vDC/110vAC Options

## ROV CONTROL SYSTEM

- DVEC II Control & Power System
- Independent Pilot/Co-Pilot Consoles
- Power 440Vac
- Dual touch screens
- Four 43" 4K Professional Monitors
- Leather Reclining Pilot Chairs
- Multiple Expansion Ports
- Trending and Black Box Recording
- Over Horizon Options
- Multiplexer System
- Dedicated Client Cabinet
- Multi Audio Communication consoles

## WORKSHOP / SPARES

- Comprehensive spares package
- Integrated Spares Management System
- Integrated Maintenance Management System
- Robust Tooling Package
- Enhanced Tooling Options (Client Specific)
- Critical Spares Packages



# Atom ROV Specification

## 12Te 'A' FRAME

- Hydraulically powered extendable A-frame with umbilical sheave, damped snubber and rotating frame
- DNV 2.7-3
- Safe Working Load 12000kg
- Design Factor 3g (Lloyds Sea State 6)
- Weight 24000kg
- Operating Temperature -10°C to +45°C
- Max Deployed Reach  $\geq$  5400mm from main pivot
- Integrated oil reclaim bund
- Max Inboard Reach - To storage position
- Telescopic extension 2200mm
- Minimum Distance Between Legs  $\geq$  2900mm

### **Operational Dimensions**

- Length 6000mm
- Width 3600mm (Excluding deck mounts)
- Height 9412mm

### **Transport Dimensions**

- Length 7980mm
- Width 4240mm
- Height 3568mm

## COMPACT TOPHAT TMS

- SMD Compact Tophat Tether Management System (TMS)
- Diameter  $\leq$  1775mm
- Height  $\leq$  2265mm
- Weight in Air  $\leq$  1610kg (excluding tether)
- Weight in Seawater  $\leq$  1440kg
- Depth Rating 3000msw
- Main Lift Termination Capacity 12000kg at Sea State 6
- Operating Temperature -10°C to +45°C
- Frame Load Certification Toplift point, frame and latch tested to three times maximum weight
- Tether Capacity 370m of 27mm diameter tether
- Line Speed 0 - 60m/min (proportional control)
- Line Pull  $>$  300kgf

## 12Te UMBILICAL WINCH

- Hydraulically Driven ROV Lift Winch
- Winch Pull 12000kg (top wrap)
- Design Factor 3g (Lloyds Sea State 6)
- Weight 34000kg (including 3300m main lift)
- Operating Temperature -10°C to +45°C
- Storage capacity Up to 3500M Lebus shells included
- Radial piston motors with inline multi disc braking system
- Line Speed Average 40m/min (with 180kW HPU).
- Control from deck-mounted control stand and remotely from control room
- Integrated oil reclaim bund

### **Dimensions**

- Length 3400mm (Excluding deck stools)
- Width 3210mm
- Height 3400mm (Includes fleeting)

