

**Falcon DR Offshore ROV System**



## Falcon DR ROV System – 1000m depth rated

The Falcon DR (deep rated) is configured to be a free swimming offshore ROV (remotely operated vehicle). The system comes complete with control container and crane mounted LARS (launch & recovery system).

The Falcon DR incorporates subsea and surface fibre optic multiplexers and an umbilical for the transmission of both video and data over fibre optics between the surface and the vehicle.



Falcon With 1000rpm  
Cleaning brush

### Specifications of the Falcon DR ROV

#### Size, Weight and Thrust

- Length	1000 mm
- Height	590 mm
- Width	600 mm
- Thrust Fwd	48 kg
- Thrust Lateral	28 kg
- Thrust Vertical	12 kg
- Weight	100kg
- Payload	15 kg

#### Video Overlay includes as standard

- Compass Heading
- Depth in metres or feet
- Camera tilt platform position
- Auto function status
- CP reading (optional)
- Odometer Count (optional)
- Date and Time
- Facility to export data to survey

#### ROV comes complete with

- 1 x Miniking Sonar
- 1 x Colour camera
- 1 x Lowlight monochrome camera
- 2 x 75 Lamps (Additional lamp on request)
- 4 x MCT 1 Horizontal Thrusters
- 1 x MCT 1 Vertical Thruster
- 1 x Remote spares package
- Safe area control container
- Safe area electric winch with crane on LARS skid

#### Optional Tooling packages

- Contact or Proximity CP
- Pipe / cable tracking system
- Ultra thickness measurements
- 1000 rpm Mechanical cleaning
- Scaling cameras
- Single or 5 function manipulator option

#### Power requirements to be supplied by client

- Stable 3 phase 380 to 480Vac 63amp – neutral not required

**3.6m x 2.42m x 2.66m – Safe area ROV control cabin to BS EN 12079 DNV 2.7-1 standard**

**Weight – 5.5T**

**Power Cable 70m long**

**LARS interconnecting power cable and decklead 30m long**

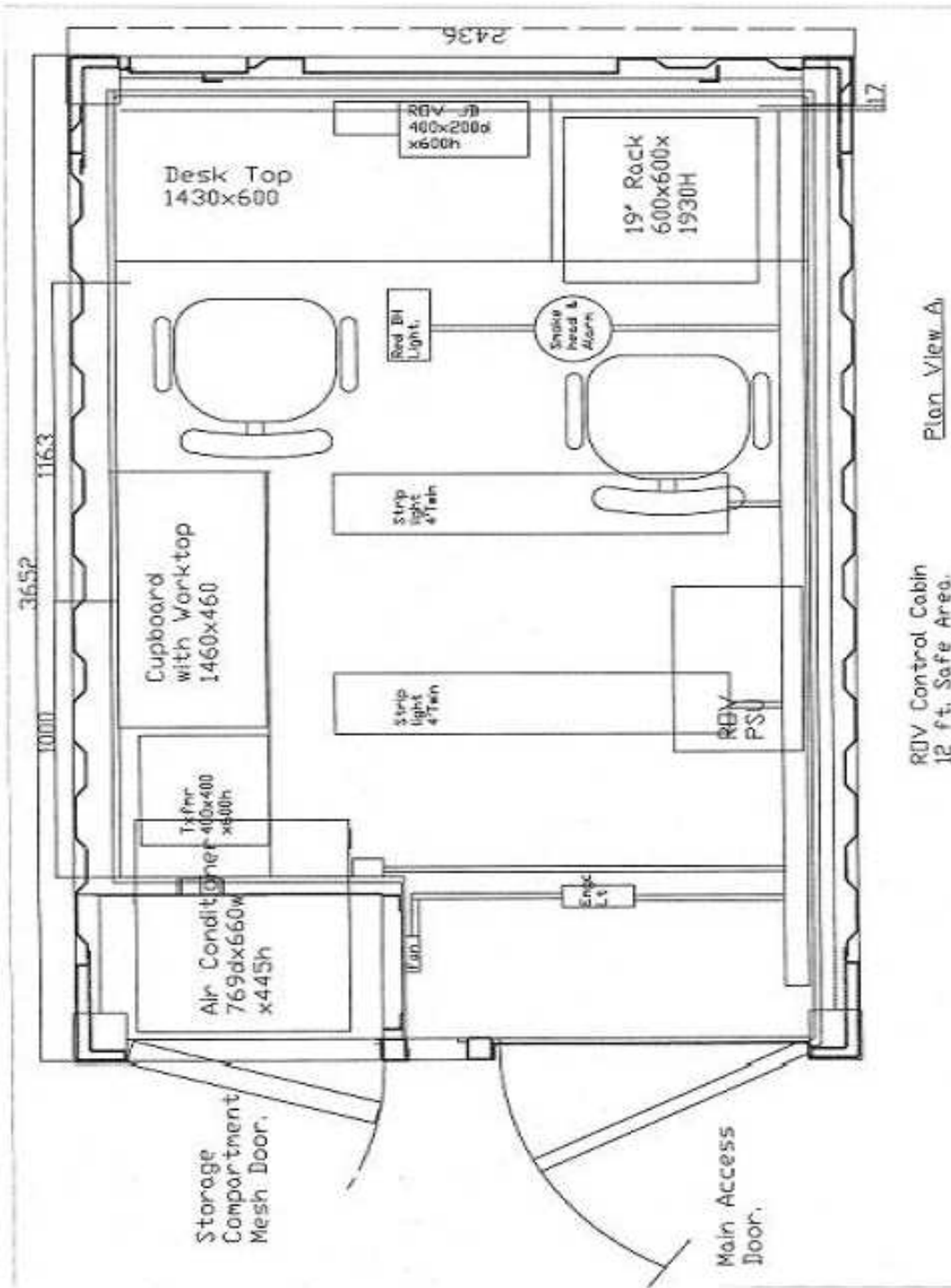
- 3 Phase 380Vac to 460Vac and single phase 220Vac power
- ROV 19" control racking with supporting equipment
- Heating and air conditioning
- Storage cupboards
- COSHH Cabinet

Ancillary Equipment fitted within the 19" control racking

- 2 x Pilot pal monitors
- 1 x Pilot Sonar VGA monitor
- 1 x Diagnostics VGA monitor
- 1 x ROV PSU 220Vac to 500Vdc
- 1 x Surface electronics
- 1 x Netmc Marine DVR 7350
- 1 x Panasonic AG-7350 SVHS recorder
- 1 x Survey pal monitors
- 1 x Canford communication master station
- 1 x Sonar PC
- 1 x General PC
- 1 x Printer



### Internal layout of the Falcon DR ROV control cabin



## 2.6m x 2m x 2m Safe area Launch and Recovery System (LARS)

Weight – 2.4T

3 Phase power cable and decklead connects to the Control container both are 30m long

- Umbilical 1700m (17mm diameter 4 x Power conductors 2 x Earth conductors 2 x Multi mode fibres)
- Line speed 64m/min
- 3 Phase with thermal sensor and integrated solenoid brake
- Frequency control with inverter providing fully variable speed and torque control
- Gear and chain driven diamond bar and travelling block
- 3 Phase electro-hydraulic power pack for the crane
- Hiab crane mounted on LARS base, 500kg @ 4m outreach
- Sheave wheel SWL 500kg, sheave wheel fitted with odometer counter for line measurements

### Falcon DR LARS



# Subsea Vision

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