



FALCON OBSERVATION/INSPECTION CLASS ROV

TECHNICAL SPECIFICATIONS



The Seaeeye Falcon ROV is suitable for all Inspection and light drill support projects. It can be utilised either as a powerful Portable ROV for fast and cost effective mobilisation via air transport or as a fully containerised unit complete with davit launch arrangement and umbilical winch.



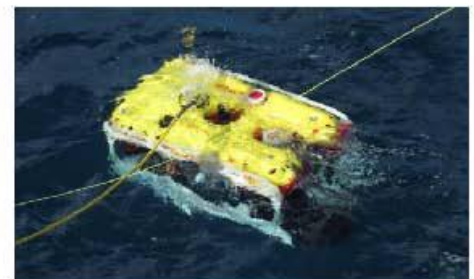
ESUS' containerised system provides both a comfortable working environment for the pilot and a spares storage/workshop facility. The arrangement is supplied in a 2-lift package specifically designed for ease of mobilisation onto offshore drilling rigs & platforms, is easy to set-up and requires no installation welding or cutting.



The winch attaches to the side of the container to provide a Gravity-based launch & recovery arrangement while the davit design allows the vehicle to pass over the top of any existing hand rails

Standard Features for the Falcon ROV includes:

- 300m depth rating 14kg payload
- Brushless DC Thrusters (4 vectored, 1 vertical)
- High power to Weight ratio
- Variable intensity Lighting (150W)
- High resolution Colour Camera on 180° tilt unit





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DIMENSIONS & WEIGHTS

Length 1m
Height 0.6m
Width 0.5m
Weight 60kg
Depth Rating 300m
Payload 14kg

VEHICLE CONSTRUCTION

Frame Type: Open solid polypropylene frame
anodised aluminium electronic pod
Buoyancy: Syntactic PVC foam
Thrusters: 5x Seaeeye MCT01 High Efficiency, Low maintenance, Brushless DC motors magnetically coupled, each giving thrust of 13kgf

PERFORMANCE

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

STANDARD FEATURES

Auto Heading & Auto Depth functions
Compass & Rate Gyro $\pm 0.5^\circ$
Depth Sensor $\pm 0.5\%$ of FSD

STANDARD EQUIPMENT FIT

1 x CCD Colour Camera (480TVL, 0.2Lux) on Tilt Unit $\pm 90^\circ$
1 x High Resolution Scanning Sonar
2 x Variable Intensity Lights (150W in total)
Tritech Gemini / Blueview 2D (Optional)

OPTIONAL EQUIPMENT

Single Function Manipulator/Rope Cutter C.P. Contact and proximity Marine Growth Thickness probe USBL Positioning Transponder Additional camera (switchable with main camera) Additional options are possible including hydraulic tools, with an electro-hydraulic underslung skid fitted

POWER REQUIREMENTS

Vehicle & Surface Unit only : single phase, 100-270Vac, 3kW
Full System with Umbilical Winch : 3phase, 380-480Vac, 15kVA

UMBILICAL

Type: Seaeeye Type 5810 lightweight cable with high abrasion resistance Elastomer sleeving and embedded Vertran Strength members giving 530kg MBL
Conductors: 4 x Power
4 x screened twisted pairs
1 x Discrete CP Reference
Diameter: 17mm
Length: 250-350m
Weight: approx 0.1kg/m in water

UMBILICAL WINCH CLASS NV 2.7-1

Length: 1.63m
Width: 1.28m
Height: 1.32m
Weight: 700kg

CONTROL CONTAINER

Length: 3.66m*
Width: 2.44m
Height: 2.44m
Weight: 5,000kg*
Classification: Class DNV 2.7-1 (Optional)
Safe Area rated
Standard: 1 x DVD , 1 x 14" Monitor
Equipment: 1 x Sonar Control PC
Control System: 19" Rack Mounted
Joystick Pilot Controls on Hand
Controller with Flying lead Pull-Out keyboard
System Control Diagnostics
Video Overlay (fully Integrated into system with free text entry)
Auxiliary Functions (incl manipulator)

Davit launch arm is swung out and winch is attached to container during operations. Davit is stowed and Winch disconnected for ease of transport.

**Control Container Lengths vary between systems up to 15 (4.6m) and gross weight varies up to 6Te. If available space on the installation cannot accommodate this length, then size of actual system to be mobilised should be confirmed*