The Seaeye 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.

Fugro’s 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
- The davit design allows the vehicle to pass over the top of any existing hand rails

Standard Features:

- 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 180º tilt unit
## Technical Specifications

### Vehicle Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1m</td>
</tr>
<tr>
<td>Height</td>
<td>0.6m</td>
</tr>
<tr>
<td>Width</td>
<td>0.5m</td>
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<tr>
<td>Weight</td>
<td>60kg</td>
</tr>
<tr>
<td>Depth Rating</td>
<td>300m</td>
</tr>
<tr>
<td>Payload</td>
<td>14kg</td>
</tr>
</tbody>
</table>

### Vehicle Construction

- **Frame Type**: Open solid polypropylene frame
- **Buoyancy**: Syntactic PVC foam
- **Thrusters**: 5x Seaeye 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 ±0.5°
- Depth Sensor ±0.5% of FSD

### Standard Equipment Fit

- 1 x CCD Colour Camera (480TVL, 0.2Lux) on Tilt Unit ±90°
- 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

### Umbilical

- **Type**: Seaeye 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

- **Dimensions**: Length 1.63m, Width 1.28m, Height 1.32m
- **Weight**: 700kg

### Control Container Class NV 2.7-1

- **Dimensions**: Length 3.66m*, Width 2.44m, Height 2.44m
- **Weight**: 5,000kg*
- **Classification**: Class DNV 2.7-1 (Optional)

### Power Requirements

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

* N.B. 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.

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**Fugro Subsea Services Limited**

Fugro House,
Denmore Road, Bridge of Don
Aberdeen, AB23 8JW, UK
T +44 (0) 1224 257600
info@fugrosubsea.co.uk
www.fugro.com