



# FUGRO SEAEYE FALCON

**The Seeye 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 :

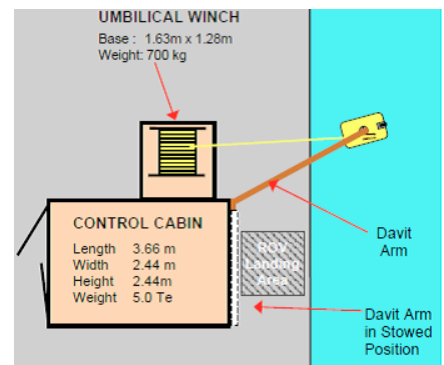
- The winch attaches to the side of the container to provide a Gravity-based launch & recovery arrangement
- The davit design allows the vehicle to pass over the top of any existing hand rails

**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 180° tilt unit



Seeye Falcon





# SEAEYE FALCON

## Technical Specifications

### Vehicle Dimensions

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, Brush-less 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	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

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) Safe Area rated.
Standard	1 x DVD , 1 x 14" Montior
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.

### 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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