

# SEAEYE FALCON



The Seaeye Falcon ROV is suitable for all type of inspections as well as light Drilling Support Projects.

It can be utilised either as a powerful portable ROV mobilised via air transportation service allowing for a fast and cost effective solution or as a fully containerised unit complete with davit launch arrangements and umbilical winch.

ROV Resources containerised system provides both a comfortable work environment for the pilot and a spare storage / workshop facility.

The equipment is supplied in a 2-lift package specifically designed for ease of mobilisation onto offshore drilling rigs & platforms, is easy to set-up:



- The winch is attached to the end of the container to provide a "gravity-based" launch and recovery arrangement.
- The davit design allows the vehicle to pass over the top of any existing hand rails.

## FEATURES

- 300 metre depth rating, 14kg payload
- Max 450 metre umbilical (1,100 metres with F2 Fibre Optic Pack)
- Magnetically coupled brushless DC thrusters with velocity feedback loop
- 4 Vectored and 1 vertical thruster
- 50 kgf thrust with 1:1 power to weight ratio
- Distributed intelligence control system
- Integral system diagnostics
- High resolution colour camera on 180° Tilt Platform
- Variable intensity, 6,400 Lumens of LED lighting
- Auto heading, depth, compass and rate gyro
- Portable surface control system with video overlay and daylight readable display
- Low drag umbilical
- Single phase A/C power input - auto selecting universal 100-270 VAC at 2.8 kW

# SPECIFICATIONS

## VEHICLE DIMENSIONS

Dimension: 1000L x 600W x 500H (mm)

Weight: 50kg/62kg with additional buoyancy

## PERFORMANCE

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

## VEHICLE CONSTRUCTION

Frame Type: Open solid frame manufactured from polypropylene with anodised aluminium electronic pod

Buoyancy: Syntactic PVC foam Depth Rating: 300msw

Payload: 16kg

Thrusters: 5x Seaeeye MCT01 high efficiency, low maintenance, Brushless DC Motors Magnetically coupled, each giving thrust of 13kgf

## STANDARD EQUIPMENT FIT

- 1 x CCD Colour Camera on Tilt Unit  $\pm 90^\circ$
- 1 x High Resolution Scanning Sonar
- 2 x Variable Intensity Lights (150W in total)

## 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

## 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 under slung skid fitted

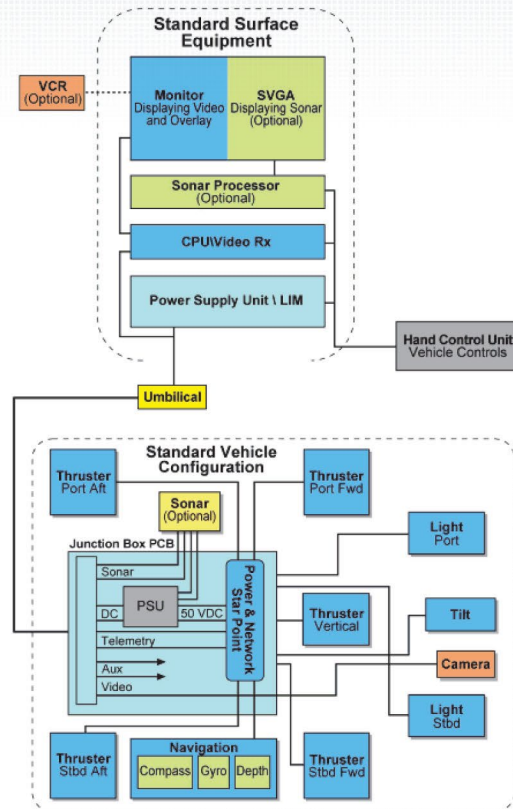
## UMBILICAL WINCH (CONTAINERISED MODE)

Dimension: 1.63L x 1.28W x 1.32H (m)

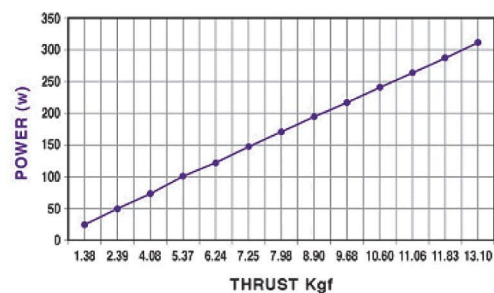
Weight: 700kg

## POWER REQUIREMENTS

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



MCT1 Thruster:- Thrust vs. Power In



## CONTROL CONTAINER (OPTIONAL)

- Dimensions: 10L x 8W x 8.5H (feet)
- Weight: 5,000kg\*
- Classification: Either Zone 2 or Safe Area rated.
- Standard 1xDVD & 1xVCR's & 1x14" 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
- Auxiliary Functions (including 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.

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