



# SEAEYE FALCON

Observation Class ROV

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Depth Rating

**300MSW**

Length x Height x Width

**1000MM x 500MM x 600MM**

Forward Speed

**1.5 KNOT**

System Power Requirements

**SINGLE PHASE**

Containerized (Optional)

**THREE PHASE**



CERTIFICATE NO :KorQ-142725



CERTIFICATE NO :KorQ-140021

# SPECIFICATION

## STANDARD FEATURES

- \* 300m depth rating
- \* 16kg Payload
- \* Brushless DC Thrusters (50kg of Thrust )
- \* High Power to Weight ratio
- \* Variable Intensity Lighting (150W)
- \* High resolution Color Camera on 180° tilt unit
- \* Auto Heading & Auto Depth functions
- \* Compass & Rate Gyro  $\pm 0.5^\circ$
- \* Depth Sensor  $\pm 0.5\%$  of FSD

## VEHICLE DIMENSIONS

- \* Length : 1000mm
- \* Width : 600mm
- \* Height : 500mm
- \* Weight : 50kg/62kg with additional buoyancy

## PERFORMANCE

- \* Forward Thrust :50 kgf
- \* Lateral Thrust :28 kgf
- \* Vertical Thrust :13 kgf

## VEHICLE CONSTRUCTION

- \* Frame Type : Open solid frame manufactured from polypropylene with anodized aluminum electronic pod
- \* Buoyancy : Syntactic PVC foam Depth Rating: 300msw
- \* Payload : 16Kg
- \* Thrusters : 5x Seaeeye MCT01 High efficiency, low maintenance
- \* Brushless DC Motors Magnetically coupled

## STANDARD EQUIPMENT FIT

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

## UMBILICAL

- \* Type : Seaeeye Type 5810 lightweight cable with high abrasion resistance
- \* Conductors : 4 x Power
- \* Diameter : 17mm
- \* Length : 2500000-3500000mm
- \* Weight : Approx. 0.1kg/m in water Elastomer sleeving and embedded Vertran Strength members giving 530kg MBL
- \* 4 x Screened twisted pairs
- \* 1 x Discrete CP Reference

## UMBILICAL WINCH (CONTAINERIZED MODE)

- \* Length : 1630mm
- \* Width : 1280mm
- \* Height : 1320mm
- \* Weight : 700 kg



## CONTROL CONTAINER (OPTIONAL)

- \* Length : 3048mm
- \* Width : 2438.4mm
- \* Height : 2590.8mm
- \* Weight : 5,000kg
- \* Classification : DNV 2.7-1 or safe area rated
- \* Standard 1 x DVD & 1 x VCR's, 1 x 14" Monitor
- \* 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

## POWER REQUIREMENTS

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

## 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



### Head Quarter

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