

Observation Class ‘Falcon’ ROV



Dive Works offers the Saab Seaeye ‘Falcon’ Observation Class ROV

- **Box 1 Dimensions:** (in mm) 1810(l) X 994(w) X 990(h). Weight: 475kg.
- **Box 2 Dimensions:** (in mm) 1130(l) X 670(w) X 600(h). Weight: 245kg.
- **Total Equipment Weight:** 720kg.

The Saab Seaeye Falcon ROV is the choice of many leading operators for capacity, versatility and the ability to get the job done. Lightweight and portable they go where they’re needed – inshore, offshore, down tunnels or for flyaway operations.



Note: Comprehensive Spares Package included.

Seaeye Falcon ROV		
System Requirements	Power	Single Phase 100-270 VAC at 2.8kW
Maximum Length	Umbilical	450 m
Maximum Depth	Working	300 msw
Length		1000 mm
Height		500 mm
Width		600 mm
Launch Weight		60 kg
Forward Speed		> 3 knots
Thrust Forward		50 kgf
Thrust Lateral		28 kgf
Thrust Vertical		13 kgf
Payload		14 kg (16 kg with additional buoyancy module installed)

SEAEYE FALCON FEATURES:

- 300 metre depth rating, 14 kg payload
- Max. 450m umbilical length (1100m with F2 Fibre Optic Pack upgrade)
- Magnetically coupled brushless DC thrusters with velocity feedback - 4 vectored and 1 vertical
- 50 kgf thrust with almost 1:1 power to weight ratio, without additional payload
- Distributed intelligence control system
- Integral system diagnostics
- High definition (HD) or high resolution colour camera on 180° tilt platform
- Variable intensity, 6400 Lumens of LED lighting
- Auto heading and depth

- 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

UMBILICAL CABLE

For the standard Falcon a choice of neutrally buoyant or thinner, slightly heavy umbilical cable is offered. These light weight proprietary jacketed cables offer high abrasion resistance and incorporate a Vectran strength member.

Umbilical Cable Specifications	
Diameter	13.1 mm
Breaking Strain	530 kg
Weight in air	134 kg/km
Weight in seawater	Buoyant
Weight in fresh water	Neutral
Minimum bend radius	197 mm (Dynamic)

24 VOLT AUXILIARY POWER SUPPLY UNIT

This unit provides a clean, regulated and fully isolated 150 Watt, 24 volt DC supply for use with Falcon accessories. In addition, it provides a connection to a spare screened twisted in the ROV umbilical for control purposes or data transmission.

The unit is protected against damage from:

- Output short circuit
- Input supply out of range plus input transients
- Over temperature
- Back EMF from inductive loads (contactors, solenoids)
- Regenerative loads (motors with high inertia loads)

NAVIGATION SYSTEM

All navigation sensors and aids are housed in a single hardened aluminium pod. Auto depth and heading are standard fit with auto altitude offered as an option. A pitch and roll sensor is included and may be selected for display on the video overlay.

Navigation System Specifications	
Compass Accuracy	±1°
Depth Sensor Accuracy	±0.5% of FSD
Gyro	0.1 °/s
Surface Update Rate	<100 ms

ACCESSORIES

Accessories that can be fitted to the Falcon are as follows:

- 5 Function Manipulator Skid
- Tracking Systems & Sonar Options
- Falcon Wire Rope Cutter Skid
- Image Scaling System
- Cleaning Brush
- Wire Rope Cutter Skid
- CP Probes



5 Function Manipulator Skid.



Wire Rope Cutter Skid.



Sonar Head fitted to Falcon ROV.



CP Probe fitted to Falcon ROV.