

Dive Works Inspection Class Falcon ROV Specifications



IMCA Classification: Class IIA Observation Class Vehicle with Payload Option

Dive Works offers the Saab Seaeye 'Falcon' Observation Class ROV.

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.



SPECIFICATIONS SUMMARY

Seaeye Falcon ROV	
System Power Requirements	Single Phase 240V at 2.8kW
Maximum Umbilical Length	450 m
Maximum Working Depth	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
Payload	13 kgf

Note: Comprehensive Spares Package included.

SEAEYE FALCON FEATURES

- 300 metre depth rating, 14 kg payload
- Max. 450m umbilical length
- 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
- Single function manipulator
- Imaginex 881A Imaging Sonar
- Distributed intelligence control system
- Integral system diagnostics
- Wide Angle 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 240V 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)

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24 VOLT AUXILIARY POWER SUPPLY UNIT (PSU)

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 screen 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 TRACKING & SURVEY

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.

Dive Works offers the following navigation tracking and survey equipment options:

- Tracklink 1500 series
- Transponders: TN1505B and TN1505BR
- Hydrographic Survey System: Hypack Lite Software

Additional third party equipment can also be integrated to the Falcon ROV.

ACCESSORIES (Optional Extras)

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

- 5 Function Manipulator Skid
- Falcon Wire Rope Cutter Skid
- Image Scaling System
- Cleaning Brush
- Wire Rope Cutter Skid
- CP Probes
- UT Probes
- High Pressure Water Blaster



5 Function Manipulator Skid



Sonar Head fitted to Falcon ROV.