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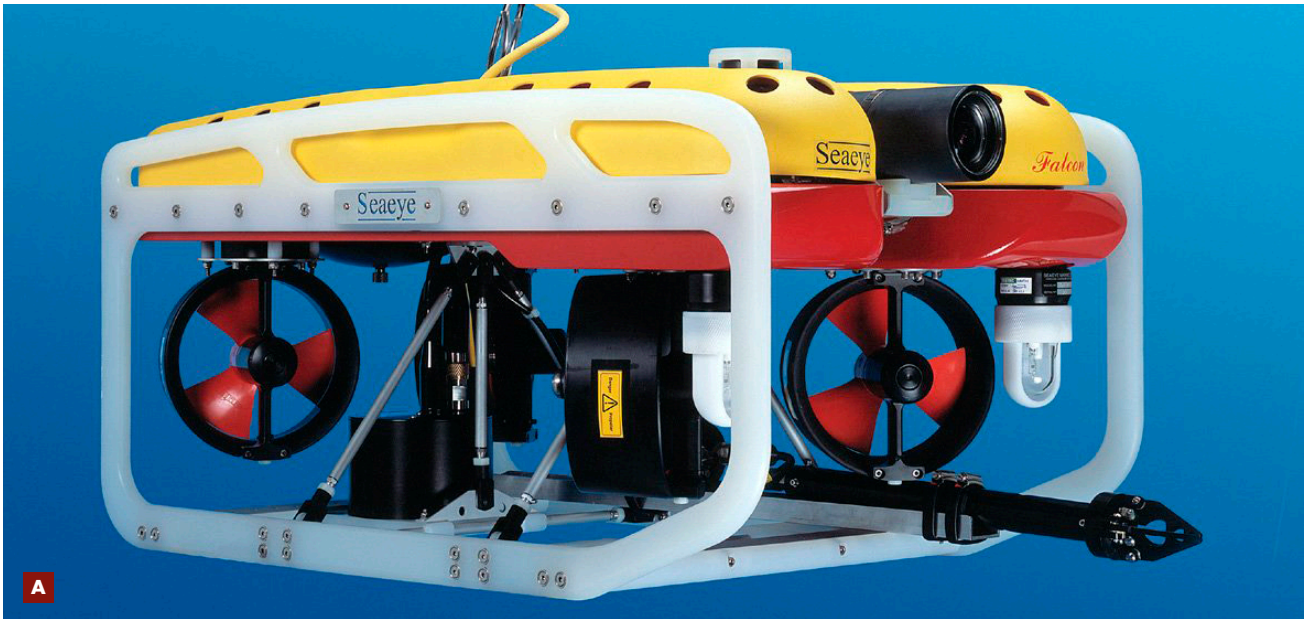
EQUIPMENT SHEET

SEAEYE FALCON
REMOTELY OPERATED VEHICLE (ROV)



A

INTRODUCTION

The Seaeye Falcon can be used for various tasks, such as observation, (platform) inspection, CP measurement, drill support, salvage assistance, small object recovery, survey operations and bottom profile measurements. The vehicle is standardly equipped with one high resolution colour camera and Tritech sonar. Furthermore the vehicle can be equipped with survey equipment, CP probe and single function manipulator. Optionally larger tools and sensor packages can be accommodated in specially designed tool skids.

The open frame of the Seaeye Falcon provides a clear water flow to the 4 horizontal thrusters for optimum thrust and control in all directions. The Seaeye Falcon ROV is suitable to operate in strong cross currents (approximately forward speed 3 kn).

Apart from the vehicle itself, two systems are defined:

- A 10 feet container equipped with digital recording equipment coming with high resolution monitor, controller, umbilical winch, power supply and deployment crane.
- A mobile unit comprising surface unit with control/power system and LCD monitor built in transport case and hand operated umbilical winch built in Pelican case. Mobile image recording unit is an option.

MAIN DATA

Length overall	1,000 mm
Width	600 mm
Height	500 mm
Weight	55 kg
Payload	16 kg
Depth rating	300 m
Forward thrust	50 kg
Lateral thrust	28 kg
Vertical thrust	13 kg

ONBOARD EQUIPMENT

Camera	High resolution, low light colour television camera with wide-angle lens, fixed focus and auto-iris
Camera tilt	180° of tilt
Lighting mobile Falcon	2 x 75 Watt quartz halogen lamps with variable intensity 1 x LED lamp with variable intensity mounted on a tilt unit
Lighting containerised Falcon	3 x LED lamp with variable intensity mounted on a tilt unit

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UMBILICAL	
Lifting umbilical used to launch and recover the vehicle	
Sheathing	Thermo-Plastic-Rubber (TPR)
Diameter	13.1 mm
Weight in air	134 kg/km
Weight in seawater	buoyant
Length	400 m (containerised system) 200 m (mobile unit)

NAUTICAL EQUIPMENT	
Compass	Flux-gate compass with solid state rate sensor for enhanced azimuth stability
Depth sensor	
Autopilot	Fully automatic pilot is provided for heading and depth
Sonar	Super Sea Prince DST 360°

10 FEET CONTAINERISED SYSTEM	
The 10 feet container is used as a control station in which all surface equipment such as digital image	
Length	3.00 m (±10 feet)
Width	2.44 m (± 8 feet)
Height	2.59 m (± 8 feet)
Weight	4,500 kg
Power requirement	380/440 V, 50/60 Hz, 15 kVA, clean, uninterrupted stable power supply

B


C

D

A Seaeye Falcon
B Seaeye Falcon mobile hand winch
C Seaeye Falcon Photo: courtesy of the Underwater Centre Fort William
D Exchangable Tooling Skid

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