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Group

OCEAN WORKS ASIA

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Falcon 12450

OWA SEAEYE FALCON

Electric Observation Class ROV

The Seaeye Falcon ROV is suitable for all Inspection and light drill support projects. It can be utilized either as a powerful Portable ROV for fast and cost effective mobilization via air transport or as a fully containerized unit complete with davit launch arrangement and umbilical winch.



The Falcon concept is the most successful underwater electric robotic system of its class and is proven in numerous intricate and demanding missions across many commercial, security and scientific sectors. Equipped with Saab Seaeeye's advanced iCON™ intelligent control system the Falcon provides exceptional vehicle control and diagnostic data as well as the ability to customize the pilot display and enable features such as station keeping.

The Falcon is lightweight, sized just one meter long and is rated to a depth of 300m (1000ft).

Five powerful brushless DC thrusters (4 vectored, 1 vertical) provide precise control and maintain a stable platform in strong currents and turbulent waters.

High power to weight ratio.

High resolution color camera and variable intensity lighting.

Lightweight and easy to transport with quick setup for rapid deployment.



Providing Cost Effective Solutions



Vehicle Specifications

Year Built	2018
Depth rating (msw)	300m
Payload	14kg

Vehicle Power / Performance

Forward Thrust	50kgf
Lateral Thrust	28kgf
Vertical Thrust	13kgf
Forward Speed	>3knots
Speed (knots)	>3

Umbilical

Manufacturer	SeaEye 5801
Outer Diameter	16mm
Length	440m
Deckhead Length	10m
Type	Power and TWP
Spare Line	1 x TWP
Breaking Strain	530kg

Vehicle Configuration

Thruster Horizontal	4 x 178mm (SAAB SI-MCT01)
Thruster Vertical	1 x 178mm (SAAB SI-MCT01)
Control System	SAAB Seeye ICON Graphical User Interface (GUI)
Auto Functions	Heading, Depth
Telemetry	485 Multi Drop 2 Camera Switchable LIM, Voltage, Current Monitoring 232 Sonar over TWP CP Interface
1 Color Camera	480 TVL, 0.2 LUX, F1.4
1 Tilt Unit	+/- 90 degrees
Obstacle Avoidance Sonar	(Imagenex 881A)
2 Dimmable LED Lights	
Thruster Velocity Feedback Control	
Depth Sensor (0.5% of FSD)	

Surface Control Unit (SCU Transit Case)

Video Overlay System	
Digital Video Recorder	

Launch and Recovery System (LARS)

System	Launch and Recovery can be provided to Client Specifications with multiple options available.
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Falcon 12450 ROV System Dimensions (L x W x H x Wt.)

ROV	1.0m x 0.60m x 0.50m x 60kg	ROV Transit Case	1.30m x 0.80m x 0.91m x 80kg
Umbilical Drum/Case	1.30m x 0.80m x 0.91m x 80kg	SCU Transit Case	1.30m x 1.00m x 1.03m x 100kg

Power Requirements

100-230V Single Phase @ 2.8kW, 50/60 Hz	Generator	3-5 kVA
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Optional Equipment

1 Camera (Switching)	Extra Lighting
Multibeam Sonar	CP Probe
Tooling Skid	Ultrasonic Inspection Probe (UT)
5 Function Manipulator Skid	Smartrak Pipe Tracker System
3 Jaw Manipulator	Cleaning Brush
Electric Winch & Lock Latch	Wire Rope Cutter