

Seaeye Lynx



Saab Seaeye “Lynx” Inspection Class Remotely Operated Vehicle

The “big brother” of the highly successful *Seaeye Tiger*, the *Seaeye Lynx* was designed to meet the needs of both the deep water inspection and platform inspection markets. Retaining the exceptional manoeuvrability and power/size ratio for which the *Tiger* became renowned, the *Lynx* offers increased vertical thrust, increased lighting and makes use of a fibre-optic system for video and data communications providing high quality transfer of 4 simultaneous video channels. The majority of Fugro’s 15-strong fleet of *Lynx* ROV systems are configured with deployment systems enabling operations to be undertaken to the full 1500msw vehicle depth rating. Optional underslung hydraulic workskids are available for the *Lynx* providing options to support a 4/5-function manipulator and a range of small capacity hydraulic tools.

Key Tasks:

Platform/Structure Inspection

- GVI
- Contact or Proximity CP
- Gamma FMD
- Rotary Brush Cleaning
- Seabed Scour Surveys

Drill Support

- Spud can inspection
- Seabed surveys
- Riser inspection and inclination observation
- Guide wire cutting
- Light intervention (e.g. Guide wire cutting)

Construction Support

- Pipeline survey
- Rock dumping support
- Ploughing observation work
- Diver observation

System Features:

- Vehicle rated to 1,500m
- 4 vectored Brushless DC thrusters
- 2 vertical Brushless DC thrusters
- fibre-optic video transmission offering up to 4 simultaneous video/sonar channels
- 600W lighting (2x 300W Dimmer Circuits)
- Variable Height Side entry TMS system
- Zone 2 Containers & LARS
- A Frame Deployment with Snubber for vessel - based systems or Crane launch designed for platform-based systems
- Optional Tooling HPU skids

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Observation Class Remotely Operated Vehicle

<p>ROV Vehicle Dimensions</p> <p>Length 1.23m Height 0.625m Width 0.825m ROV Weight 205kg (incl 40kg payload)</p> <p>Depth Rating</p> <p>Vehicle 1500m Operational (system) 1000m-1500m (system dependent)</p> <p>Propulsion</p> <p>6 x DC Brushless Electrical Thrusters</p> <p>Thrust Forward : 69kg Lateral : 45kg Vertical : 39kg</p> <p>Speed (Operating with 50m tether in zero current)</p> <p>Forward/Reverse 2.5 knots Lateral 1.5 knots Vertical 1.0 knots</p> <p>Auto Functions</p> <p>Auto Depth 1% of full working depth Auto Heading Auto Heading based on Dig Fluxgate compass & solid state rate sensor Auto Altitude Optional</p>	<p>Cameras, Lighting & Sonar</p> <p>Tilt Platform, fitted with 1 off colour zoom camera, 1 off SIT black & white video camera and 2 off 150 watt lamps</p> <p>Position feedback of tilt angle on video display</p> <p>Capacity to carry a Digital Stills camera.</p> <p>4 off, individually fused 150 watt tungsten halogen lamps. Variable brilliance (in pairs)</p> <p>Kongsberg Simrad MS1000, sector scan sonar</p> <p>TMS monitoring camera & light</p> <p>Other</p> <p>Electric Rotary Brush Interface</p> <p>System is interfaced ready for survey sensors, additional cameras etc</p> <p>Surface Power & control System</p> <p>Pilot hand controller</p> <p>Surface control unit for up to 4 cameras (zoom and focus), and decoding of fibre optic video transmission</p> <p>Surface power supply and distribution unit</p> <p>Video recorders – SVHS or DVD (system dependent)</p> <p>Control & deck comms system</p> <p>Ancillary System Support</p> <p>Recess on the forward section of buoyancy suitable for Sector Scanning Sonar and a Mini-Trans/Responder</p> <p>A number of "under-slung" tooling skids can be fitted to this class of ROV including: 4/5-Function Manipulator, 1" Wire Cutter, GFMD (Gamma Flooded Member Detection) Frame Orientation Tool,</p>	<p>Tether Management System (TMS)</p> <p>System dependent : All Seaeye Type 5 or Type 9 "cage-style" units with 200m tether capacity & adjustable opening heights to accommodate tool skids:</p> <p>LARS</p> <p>Description Integrated Winch, HPU & A-frame or Crane Unit. Purged, explosion proof and rated for zone 2 operation</p> <p>Winch Umbilical Capacity 1650m, 32mm diameter, steel wire armour</p> <p>LARS Skid Dimensions</p> <p>Length : 4.85m Width : 2.60m Height : 2.75m</p> <p>Weight 12500kg</p> <p>HPU</p> <p>Electric Motor Rating 37kW at 3 phase, 440v, 50/60Hz</p> <p>Dimensions : Length 1.50m : Width 0.75m : Height 1.45m</p> <p>HPU Weight : 1500kg</p> <p>Control Container</p> <p>Description A60 Container purged, explosion proof and rated for zone 2 operation</p> <p>Length 4.99m Width 2.43m Height 2.695m Weight 10000kg</p> <p>System Power Requirements</p> <p>440V, 3ph, 60Hz – motor rated 100kVA supply</p>
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