

## The offshore inspection vehicle with enhanced interface capability

Like the smaller Tiger, the Lynx is a leading observation and inspection vehicle used by the oil and gas industry especially for missions in water depths to 1,500m.

The Lynx is fitted with two vertical and four horizontal thrusters making it a very stable platform with exceptional manoeuvrability.

A wide range of tools and sensors are available as well as interchangeable tooling skids, which are powered by a dedicated tooling power supply unit.

The Lynx vehicle is available as a free swimmer or can operate in conjunction with a Type 8 Tether Management System (TMS).



### Trusted

Six thrusters provide a stable platform with an increase in vertical thrust for deep water and platform inspection projects.

### Enhanced data transmission

Fibre optic data and video transmission with up to four simultaneous video channels available including an HD camera option.

### Flexible

Tooling options designed to deliver results even for the most challenging of projects.

## System Overview

- Surface Power Supply Unit and Surface Control Unit supplied as free standing units or fitted inside an air conditioned control container. An additional tooling power supply option is available.
- Surface Equipment includes Hand Control Unit, keyboard and a two 17 inch colour monitors. An additional hand control unit is available for systems fitted with a manipulator skid.
- Fibre Optic MUX with two live video channels for video transmission. Additional MUX option available.
- Operated as a free swimming ROV or in conjunction with a Type 8 Tether Management System (TMS) for depths up to 1500 m.
- Additional deployment options include an electric winch for free swimming Lynx or an A Frame Launch and Recovery System (LARS) for ROVs equipped with a TMS.



Technical Specifications

| Specifications            | Lynx                            |
|---------------------------|---------------------------------|
| System Power Requirements | 3-phase, 380-480 VAC at 50/60Hz |
| Depth Rating              | 1500m                           |
| Length                    | 1230 mm                         |
| Height                    | 605 mm                          |
| Width                     | 815 mm                          |
| Launch Weight             | Approximately 200 kg            |
| Forward Speed             | 3 knots                         |
| Thrust Forward            | 66 kgf                          |
| Thrust Lateral            | 47 kgf                          |
| Thrust Vertical           | 43 kgf                          |
| Payload                   | 34 kg                           |



## Options, Tools and Accessories



High resolution colour or monochrome cameras fitted to vehicle and on optional TMS.



Cleaning brush incorporating a heavy duty brush plus an SM4 motor.



High Definition (HD) cameras for vehicle.



Water Jet System for cleaning operations.



Altimeter used to measure the altitude of the vehicle above the sea floor. Auto Altitude option available.



Flooded Member Detector (FMD) skid for mounting an FMD tool. The skid is fixed below the vehicle and is used for subsea inspections.



Bathymetric system with depth sensor and altimeter fitted.



Cathode Potential Probe with either contact or proximity probe options available.



Scanning Sonar options with an integration kit and surface equipment.



Ultrasonic thickness system to determine the level of corrosion present in a structure.



Multibeam Sonar options with an integration kit and surface equipment.



Laser options for video survey.



Additional three phase power supply unit used to power tooling options.



Battery-operated Xenon emergency strobe used to locate the ROV.



Four-function manipulator system fitted with quick disconnects fittings to switch between the cleaning brush and the anvil cutter. Manipulator camera options available.



Acoustic tracking system to calculate the position of vehicle fitted with an acoustic beacon.



Compact Cutter capable of cutting 25 mm diameter steel wire rope or 12 mm diameter steel bar.



Control cabin options include video recording units, video matrix switcher, communications systems, and high-back pilot seat.

## Deployment Systems and Control Cabins



Tether Management System (TMS) Type 8 allowing for the deployment of the ROV at working depth and also providing protection.



Electric Winch with variable speed electric drive.



Running Lock Latch system used for launch and recovery to reduce the strain on the umbilical. Includes a latch release line to free the ROV from the lock latch.



A-Frame Safe Area Launch and Recovery System (LARS) with Lock Latch or Snubber options. A Zone II upgrade option is available.



Safe Area Control Cabin (16 ft) fitted with electric power distribution panels, lighting, air conditioning, and 19 inch racks. A Zone II upgrade option is available.



Safe Area 20ft split Control Cabin with a Pilot Control section and a separate high voltage PSU section. Fitted with electric power distribution panels, lighting, air conditioning, heating and 19 inch racks. An optional installed escape hatch is available as is a Zone II upgrade.

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