

The industry benchmark inspection and observation vehicle

Widely regarded as the leading observation and inspection vehicle within the oil and gas industry, the Tiger is also increasingly chosen by defence and marine science seeking increased capability in deep water.

The Tiger is a very stable platform, with excellent manoeuvrability and performance in strong currents. Its open frame construction and generous payload offer the possibility of adding a wide range of tools and sensors as well as interchangeable tool skids.

The Tiger is available as a free-swimming vehicle down to depths of 450m. For greater depths down to 1000m, a Tether Management System (TMS) is available.



Powerful

Five thrusters provide a stable platform for observation, inspection and diver support.

Reliable

Internationally regarded as the industry standard observation and inspection vehicle.

Flexible

Engineered design options to deliver results even for the most challenging of projects.

world leader in electric underwater robotics

website: www.saabseaeye.com

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 19 inch colour monitor. An additional hand control unit is available for systems fitted with a manipulator skid.
- Standard Twisted Pair or Fibre Optic option used for data and video transmission.
- Operated as a free swimming ROV with up to 450 m of umbilical. Optional Type 8 Tether Management System (TMS) available for depths up to 1000 m.
- Additional deployment options include an electric winch for free swimming Tigers, a containerised system with winch and launch davit or an A Frame Launch and Recovery System (LARS) for ROVs equipped with a TMS.



Technical Specifications

| Specifications | Tiger |
|---------------------------|---------------------------------|
| System Power Requirements | 3-phase, 380-480 VAC at 50/60Hz |
| Depth Rating | 1000m |
| Length | 1030 mm |
| Height | 590 mm |
| Width | 700 mm |
| Launch Weight | Approximately 150 kg |
| Forward Speed | 3 knots |
| Thrust Forward | 62 kgf |
| Thrust Lateral | 43 kgf |
| Thrust Vertical | 22 kgf |
| Payload | 32 kg |



Options, Tools and Accessories



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



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



Bathymetric system with depth sensor and altimeter fitted.



Scanning Sonar options with an integration kit and surface equipment.



Multibeam Sonar options with an integration kit and surface equipment.



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



Four-function manipulator system fitted with a jaw rotate actuator and powered by hydraulic cylinders. Manipulator camera options available.



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



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



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



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



Laser options for video survey.



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



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



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 the deployment of the vehicle at a deeper working depth and also providing protection.



Electric Winch with variable speed electric drive.



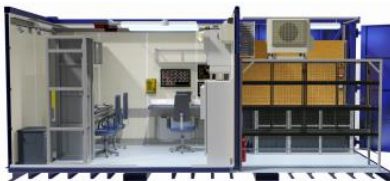
Running Lock Latch system used for launch and recovery to reduce the strain on the umbilical. Includes a latch release line to free the ROV from the lock latch.



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.



Additional cabin options include:
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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