

The deep rated inspection vehicle with work capabilities

The Cougar-XT*i* is 3000m rated and features Saab Seaeye's iCON™ intelligent control system. The proven capabilities of the Cougar-XT combined with the use of iCON™ and a high frequency, high voltage, power supply system make the Cougar-XT*i* a formidable 3000m observation vehicle complete with automated self-diagnostics.

Designed to accommodate a wide range of quick-change tooling skids, the vehicle includes dual heavy duty five-function manipulators that incorporate a rope cutter. The surface equipment for the Cougar-XT*i* can be provided as free-standing units or integrated into a control cabin.



Smart

With Saab Seaeye's iCON™ intelligent control system featuring self-diagnostics and control via touch screens.

Deep Rated

A highly manoeuvrable vehicle designed for inspection and light work at depths of up to 3000 m.

Flexible

Designed for work at depth with a variety of skid tooling options.

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website: www.saabseaeye.com

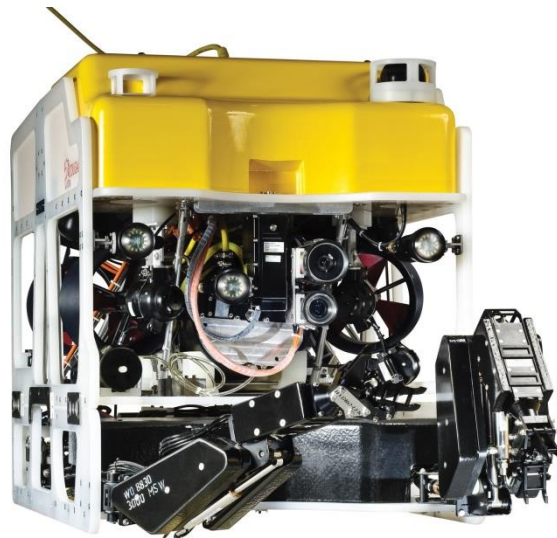
System Overview

- A floor standing 3kV, high frequency Power Supply Unit that provides power for the ROV and tooling with an integrated emergency stop. Includes a Line Insulation Monitor for identification and isolation of earth faults.
- Pilot Control Units that include touch screens running the graphical user interface (GUI) for vehicle control and diagnostic features, Flight screen monitors that display data and video that are transmitted via Fibre Optic Multiplexers, surface control unit for remote control of the PSU, and a hand control unit for ROV.
- Additional surface equipment includes a TMS PSU and TMS foot pedals for the optional TMS, hand control units for tooling options, and a Video Matrix Switcher and DVD Recorder for video outputs.
- Available as a free swimming ROV or in conjunction with a Type 8 Tether Management System (TMS) for depths up to 3000 m.
- ROV rated to 3000 m fitted with four horizontal thrusters and two vertical thrusters supplied with 500 Volts DC, electronics pod, four LED lights, up to four high resolution cameras, a depth sensor, and a compass pod with integrated Magneto-resistive compass, accelerometers and gyros with pitch and roll outputs for vehicle auto heading and auto depth. Auto altitude is available as an option when an altimeter is fitted.



Technical Specifications

Specifications	Cougar XT <i>i</i>
System Power Requirements	3-phase, 380-480 VAC at 50/60Hz
Depth Rating	3000m
Length	1515 mm
Height	905 mm
Width	1000 mm
Launch Weight	Approximately 580 kg
Forward Speed	3.2 knots
Thrust Forward	170 kgf
Thrust Lateral	120 kgf
Thrust Vertical	110 kgf
Payload	80 kg



Options, Tools and Accessories



High resolution colour or monochrome cameras



High Definition (HD) cameras



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.



Dual five-function heavy duty manipulator system.



Additional 4.3kW DC HPU and control valve used for hydraulic tooling options.



Compact Cutter capable of cutting 38 mm diameter steel wire rope. Includes an intensifier and requires HPU.



Rotary Cutter used for cutting through hoses and cables up to 4 inches thick.



Cleaning brush incorporating a heavy duty brush and thruster motor fitted.



Water Jet System using a high power water pump.



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



Ultrasonic thickness system available 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 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



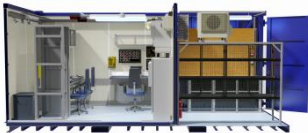
Tether Management System (TMS) Type 8 with fibre optic tether allowing for the deployment of the ROV at working depth and also providing protection.



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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