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Group

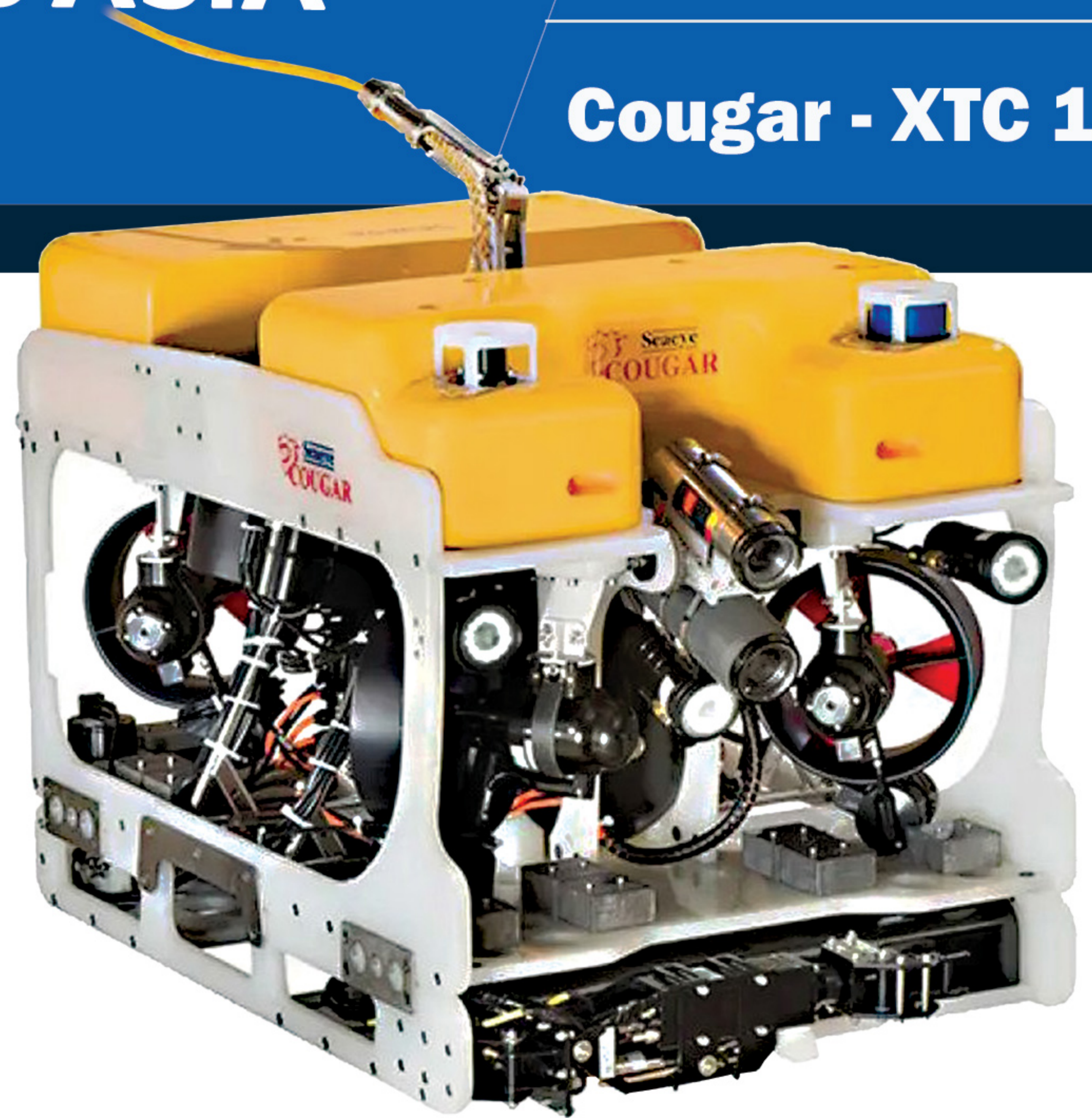
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Cougar - XTC 1484

OWA SEAEYE COUGAR-XT COMPACT

Electric Intermediate Class ROV with
Light Intervention, Survey and Construction
Support Capabilities



The Cougar-XT Compact is the shallow water version of the Cougar-XT and is depth rated to 300m. An extremely powerful vehicle, the Cougar-XT Compact is ideal for applications where stronger tidal currents are experienced. The smaller chassis significantly reduces drag which, in combination with a high-performance thruster arrangement and a small diameter tether, offers unrivalled performance for its size and class. Proven worldwide and recognized for its capability at performing a variety of operations from drill support to IRM and even light Intervention and construction, operators now can undertake a range of demanding tasks at much lower operating costs. The system comes equipped with a gigabyte ethernet option for superior survey capabilities.

<Propulsion>

Four vectored horizontal and two vertical brushless SM7, DC500 thrusters provide agile and powerful full three-dimensional control of the Cougar-XT Compact and one of the highest thrust to weight ratio in its class.

<Navigation>

A high-performance flux-gate compass, a depth sensor and a solid state rate sensor gives superior azimuth stability.

Equipped sensor has autopilot functions (Auto heading, auto depth, and Auto altitude)

<Tooling>

The Cougar System is fitted with a Hydraulic Tooling Skid, with a 4 function manipulator arm. The jaw has a continuous rotate actuator with the unique open jaw soft rope cutter built in to the outside of the jaws. Various light tooling can be adapted for use with this skid.



Providing Cost Effective Solutions



Vehicle Specifications

Year Built	2019
Depth rating (msw)	300m
Payload	60kg

Vehicle Power / Performance

Forward Thrust	170 kgf
Lateral Thrust	120 kgf
Vertical Thrust	110 kgf
Forward Speed	3.5 knots
Lateral Speed	2 knots

Umbilical / Tether

Tether Manufacturer	Seabeed RT0068
Outer Diameter	17.5mm
Length (max.)	400m
Type	Power, fiber Optic and TWP
Minimum bend radius	180mm
Breaking strain	19.6kN

Manipulator

Manufacturer	Hydrolek
Skid Mounted	HLK-4200 4-function manipulator arm.
Jaw Rotate	Continuous or 180°
Jaw Rotate Torque	Max torque continuous = 46Nm Max torque intermittent = 88Nm
Jaw rotate speed	30 rpm min 400 rpm max cont. @ 20l/min
Arm Lift Capacity	40kg

Vehicle Configuration

Thruster Horizontal	4 x Seabeed SM7 Brushless DC motors
Thruster Vertical	2 x Seabeed SM7 Brushless DC motors
Control System	SAAB Seabeed Graphical User Interface (GUI)
Auto Functions	Heading, Depth
Telemetry	Fiber Optic 2 live cameras + one switchable LIM, Voltage, Current Monitoring CP Interface, Aux 1 Manip, Aux 2
Cameras	1 x Colour camera 1 x SIT or low-light-level camera
Tilt	1 x Seabeed +/- 90 degrees
Lights	4 x 40w dimmable LED
Sonar	Tritech Super SeaKing
Depth	Valeport Mini-IPS DQ9600 Accuracy ±0.01% of full range
Heading	Fluxgate 10CP / 4 +/- 0.5 degree accuracy

Control / Workshop Container

Safe Area 12ft Control Cabin with a Pilot Control section and space for reporting coordinator. Fitted with electric power distribution panels, lighting, air conditioning, heating and 19-inch rack and monitors.

Video Recorder (Main)	HDD/DVD Recorder
Video Recorder (Backup)	HDD/DVD Recorder
Video recorder (Optional)	Kapture system

Cougar XTC ROV System Dimensions (L x W x H x Wt.)

ROV	1.30m x 0.90m x 0.75m x 270kg	Control Container	4.86m x 2.44m x 2.75m x 10,000kg
Manipulator Skid	1.30m x 0.90m x 0.15m x 50kg	Workshop (c/w Winch)	3.48m x 2.44m x 2.75m x 5,000kg

Power Requirements

380-480 VAC 3 Phase @ 50/60 Hz	Generator	150 kVA
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Optional Equipment

Ultrasonic Inspection Probe (UT)	Cleaning Brush
CP Probe	Hard Line / Soft Line Cutters
HD Camera	Water Jetter