



Seaeeye Cougar-XT



In the range of light work class ROVs the Seaeeye Cougar-XT is one of the most powerful tools available. With its increased thrust, load carrying capacity and tooling skid options, this ROV is very suitable for performing a wide range of inspections and construction tasks.

The Seaeeye Cougar-XT is a high-powered light working class digital vehicle, which, in combination with TMS, is used for survey and mechanical tasks.

Besides standard tasks such as observation and inspection, the Seaeeye Cougar-XT can be used for a broad range of survey and mechanical activities. For both sets of tasks easy exchangeable tooling kits are available. The skid for mechanical tasks has been equipped with two 5-

function manipulators. By making use of a TMS system the ROV can be more safely deployed from a DP vessel or under less suitable tidal and weather conditions.

The vehicle is standardly equipped with three cameras (one low light high resolution colour, one color zoom (18:1) and one low light black and white) and with a scanning sonar system.

Furthermore the vehicle can be equipped with additional camera, CP probe, abrasive cutting tool, cable cutter, torque tool, hydraulic manipulators, HP waterjet, wall thickness gauge, pipe tracker and inclinometer. All these tools or measuring devices can be built in one of the standard tooling skids.

The maximum operating depth is 1500 meters.

Apart from the vehicle and TMS itself, the system consists of:

- A 15 foot control cabin in which video recording equipment and all other facilities have been installed, to carry out a high standard operation.
- An A-frame LARS for handling TMS and ROV.

Video recording takes place by means of a digital recording system. For review of the video images high resolution monitors are available.



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The Vehicle

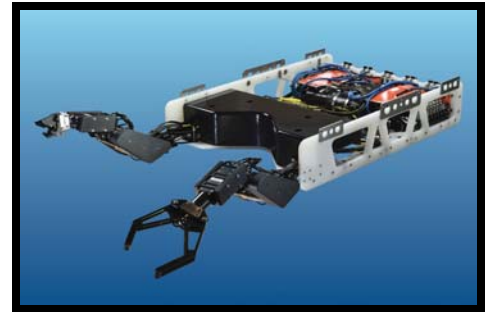
Length	1515 mm
Width.....	1000 mm
Height.....	790 mm
Launch Weight	344 kg
Payload.....	80 kg
Depth rating	2000 msw
Forward Speed	> 3.2 knots
Thrust Fwd.....	170 kgf
Thrust Lateral	120 kgf
Thrust Vertical.....	110 kgf



LARS in stowed position with TMS and Cougar ROV ready for transport.

Manipulator skids

The Cougar-XT package includes a detachable dual five function manipulator tool skid. These manipulators have an integral 19mm rope cutter.



Manipulator skid with HD Grabber

Type 8A Tether Management System (TMS)

This garage-style TMS uses a bale arm arrangement to spool tether on and off a fixed drum without the complexity and additional cost of incorporating a slip ring. 200 meters of tether is installed which is remotely controlled by a ROV pilot.

The LARS meets the 'Zone 2 area' explosion proof standard and certified to EN 12079 / DNV witnessed load testing, often required in the offshore oil and industry.

The snubber-rotator aligns the TMS for recovery by LARS.



Cougar TMS and LARS with Snubber Rotator.

Control Cabin

Surface control equipment integrated into a custom 15 ft. ISO ROV Control Cabin with A60 zone II rating and DNV certifications 2.7-1 / 2.7-2.

System Power Requirements	Seaeye Cougar-XT System
Input	3-Phase 380-480 VAC
Control Cabin	12 kVA
Work Shop	8 kVA
LARS (typical)	40 kVA
ROV+TMS	24 kVA
Tooling	9kVA