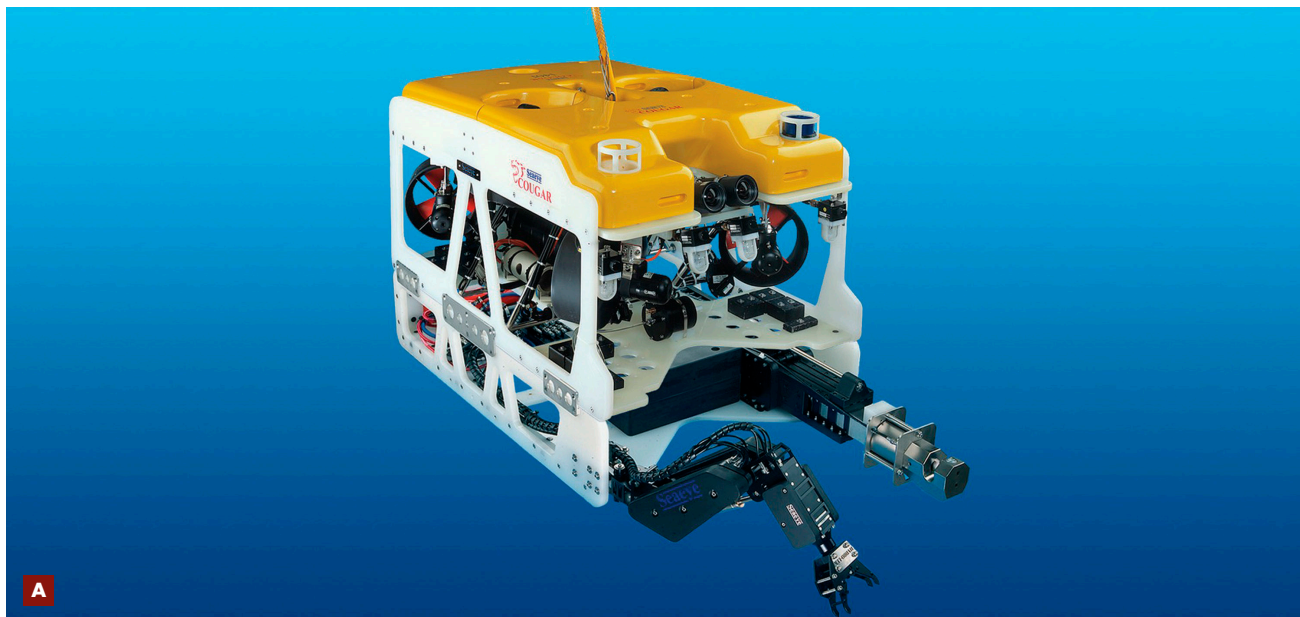


# EQUIPMENT SHEET

## SEAEYE COUGAR XT

LIGHT WORK CLASS REMOTELY OPERATED VEHICLE (ROV)



A

### INTRODUCTION

In the range of light work class ROV's the SeaEye 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 (pipeline) inspection and construction tasks.

The SeaEye Cougar-XT is a highpowered 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 SeaEye 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 two cameras (one low light high resolution colour 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 clinometer.

All these tools or measuring devices can be built in one of the standard tooling skids. The maximum operating depth is 1,500 metres.

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

- A 20 ft control cabin in which video and registration equipment and all other facilities have been installed, to carry out a high standard operation
- An a-frame LARS for handling TMS and ROV

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

### VEHICLE WITH 500 VOLT DC THRUSTERS

Length	1,506 mm
Width	1,000 mm
Height	745 mm
Weight	371 kg
Omni-directional thrust	140 kg
Payload	120 kg
Depth rating	1,500 m
Camera 1	SeaEye low light colour camera
Camera 2	Kongsberg low light B&W camera
Camera pan and tilt	90° pan, ±160° of tilt
Lighting	4 x 150 W adjustable quartz halogen lamps
Navigation	Fluxgate compass and electronic depth sensor
Sonar	Kongsberg sonar system
Auto pilot	Heading and depth

## TOOLING SKIDS

Tooling skids are available, one with two 5-function manipulators for mechanical tasks, one for survey purposes.

## TETHER MANAGEMENT SYSTEM (TMS)

Bale arm type TMS cage with 200 m tether capacity, provided with colour camera with the following umbilicals/cables:

- Tether umbilical 20.6 mm Fibre optic, length 200 m
- Armoured lifting umbilical length 500 m (optional to 700 m)

## A-FRAME TYPE LAUNCH AND RECOVERY SYSTEM (LARS)

This zone II rated system is used for handling the TMS & ROV. the A-frame in transport configuration equals a standard 20 feet container.

Length overall	6,058 mm
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Width overall	2,650 mm
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Max height in operation	6,216 mm
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Self weight, including oil	8.8 t
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Gross weight with umbilical	12.2 t
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- Armoured ROV electrical deck cable
- Fibre optic deck cable



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## CONTROL CABIN

This 20 ft containerized control cabin, A60 zone II rated container is used as a control station, in which surface equipment such as DVD recorders, power supply and controller has been built in.

Length	6,059 mm (± 20 ft)
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Width	2,440 mm (± 8 ft)
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Height	2,592 mm (± 8 ft)
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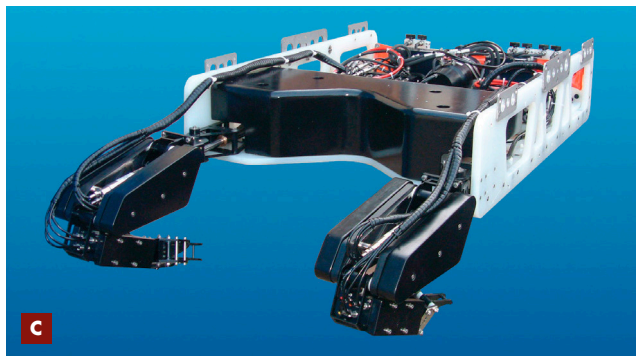
Gross weight	10 t
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## POWER REQUIREMENTS

Voltage	380-420 V at 50 Hz
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420-460 V at 60 Hz
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3-phase + earth power 90 kVa
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**B** Lars with TMS and ROV **[C]** exchangeable tooling Skid **[D]** SeaEye Cougar XT in use

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