The Seaeye Cougar-XT ROV is a compact, highly flexible and extremely powerful electric ROV capable of operating to a depth of 2000 metres.

The Cougar-XT is designed to accommodate a range of light tooling equipment via a system of quick-change underslung skids, making it ideal for survey work; drill support; light construction projects and salvage support operations.

The Fugro Subsea Services Limited Cougar is deployed with a side entry garage Tether Management System (TMS) and launched using a dedicated A-Frame Launch and Recovery System (LARS).

The highly manoeuvrable design features four vectored horizontal thrusters that provide an excellent power : size ratio making it the system of choice in strong tidal currents and is configured with deployment systems enabling operations to be undertaken to the full 2000m vehicle depth rating.

Standard Features:
- 2000m depth rating 80kg Payload
- Brushless 500V DC Thrusters. (4 vectored, 2 vertical)
- High Thrust to Weight ratio
- Fibre optic video channels
- 4 x LED lamps fitted, 600W is available
- 2 x Cameras on pan and tilt unit

Quick change underslung skids allow the Cougar XT to perform a variety of light tooling or survey works.

The rugged polypropylene and stainless steel chassis is maintenance free.
## SEAEYE COUGAR-XT

### Technical Specifications

#### Vehicle Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1.50m</td>
</tr>
<tr>
<td>Height</td>
<td>0.79m</td>
</tr>
<tr>
<td>Width</td>
<td>1.00m</td>
</tr>
<tr>
<td>Weight</td>
<td>409kg</td>
</tr>
<tr>
<td>Payload</td>
<td>80kg</td>
</tr>
</tbody>
</table>

#### Power

<table>
<thead>
<tr>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propulsion</td>
<td>24kVA</td>
</tr>
<tr>
<td>Tooling</td>
<td>9kVA</td>
</tr>
</tbody>
</table>

#### Performance

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward Thrust</td>
<td>170 kgf</td>
</tr>
<tr>
<td>Lateral Thrust</td>
<td>120 kgf</td>
</tr>
<tr>
<td>Vertical Thrust</td>
<td>110 kgf</td>
</tr>
</tbody>
</table>

#### Speed

- Fore/aft: 3.2 knots

#### Thrusters

- Seaway SM7 brushless DC Motors: 4 x Vectored horizontal, 2 x Vertical

#### Pan & Tilt

- Pan Unit ±135deg
- Both units with positional feedback displayed on overlay

#### Cameras

- 1 x Colour Zoom Camera
- 1 x Low Light, Black & White Camera
- 1 x Rear facing light ring colour Camera (Optional - up to 4 video channels)
- 1 x TMS camera

#### Lights

- System capacity up to 4 x 150W dimmable
- Standard capability 4 x 150W

#### Telemetry

- Fibre optic multiplexer: 4 x RS232, 2 x RS485, 10/100 Ethernet (Optional)

#### Auto Functions

- Auto depth control
- Auto altitude control
- Auto heading control

#### Sensors

- Heading- Gyro Compass: Accuracy ± 0.5%
- Pitch and roll:
- Depth: Accuracy ± 1 %
- Altimeter
- Kongsberg 1071 Sonar

#### Surface control system

- Microprocessor
- Operating system

#### Power Requirements

- 100 kVA Inc LARS
- 3 Phase, 380–480VAC, 50–60Hz

#### TMS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMS Type</td>
<td>Garage TMS type 8</td>
</tr>
<tr>
<td>Tether</td>
<td>up to 250m</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1.79m x 1.49m</td>
</tr>
<tr>
<td>Weight in Water</td>
<td>996.2kg</td>
</tr>
</tbody>
</table>

#### Main Components

- Remotely Operated vehicle (ROV)
- Tether Management System (TMS)
- 20ft Control Container / workshop (combined)
- Integrated LARS: A-Frame incorporating winch and HPU
- Typical Integrated A-Frame LARS: 5.59m x 2.64m x 2.44m (L x W x H) @ 15.2 T
- Suitable for use in a Hazardous Environment (Zone 2).

#### Tooling Skids / Packages:

- Survey Skid: Comprising camera booms, 5F manipulator for CP or cleaning brush.
- Drill Support Package: Anvil Cable cutter, ax ring tool and water jet tool. Torque tool.
- Single point TDU