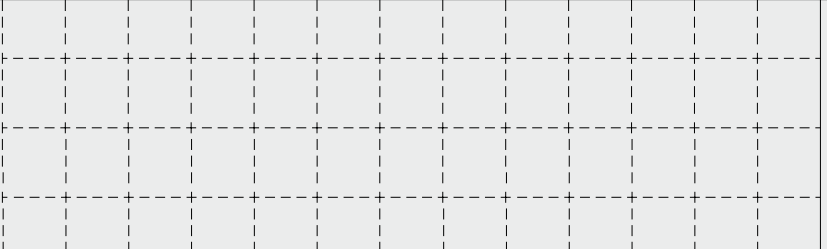




# ATOM EV

## Work-Class ROV



✉ [sales@beam.global](mailto:sales@beam.global)

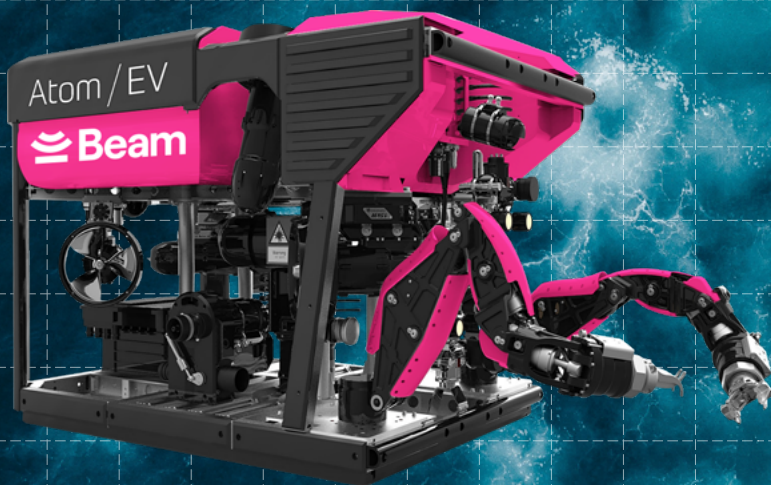
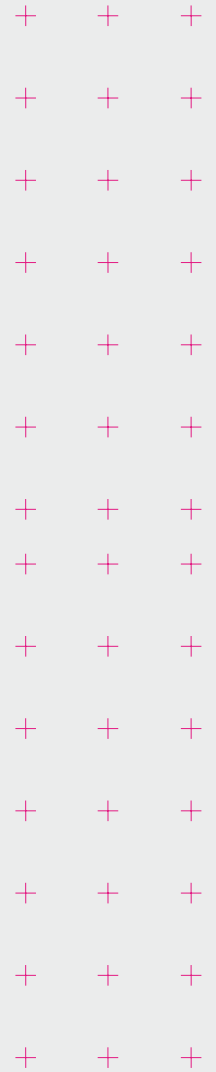


# High performance compact electric work class ROV.

Atom EV is a compact high stability, very high performance electric work class ROV. The vehicle is optimized for data gathering applications where a stable platform and high positional accuracy is required. Atom EV's cutting edge electric drivetrain allows for excellent payload capacity and space to carry instruments and tools.

For flexibility the vehicle can be fitted with an optional hydraulic power unit that has the capability to run hydraulic manipulators and tools. This HPU is much smaller than traditional units. Atom EV is also set up to accommodate next generation electric manipulators and tools when they become available. SMD's latest distributed control system DVECSIII forms the control backbone.

Atom EV is constructed from the latest Curvetech® modular robotic components used across SMD's fleet of next generation vehicles.



## KEY FEATURES

- Compact and Lightweight
- True 800kg Bollard Pull
- 4 knot forward speed
- 150kg Payload (with manipulators)
- Space for instruments and tools
- SMD DVECSIII Digital Telemetry
- Real-time Vehicle Analytics



## Vehicle Specifications

|                        |   |
|------------------------|---|
| WEIGHT IN AIR          | 2000 kg   |
| DIMENSIONS LxWxH       | 260 x 150 x 156 cm                              |
| DEPTH RATING           | 3000msw<br>(1000, 2000, 4000, 6000msw optional) |
| PAYLOAD                | 150 kg (with manipulators)                      |
| BOLLARD PULL (ACTUAL)  |   |
| Forward:               | 802 kgf   |
| Lateral:               | 802 kgf   |
| Vertical:              | 790 kgf   |
| SURFACE PERFORMANCE    |   |
| Forward:               | 4.0kn   |
| Lateral:               | 3.1kn   |
| Vertical:              | 2.6kn   |
| Auto Functions:        | Heading, Depth, Altitude, ROV DP                |
| THRUSTER CONFIGURATION |   |
| Horizontal vectored:   | 4 x Curvetech®                                  |
| Electric:              | 300   |
| Vertical:              | 3 x Curvetech®                                  |
| Electric:              | 300   |

## Vehicle Cameras/Lighting

|          |  |
|----------|--|
| CAMERA   | SubSLAM X2<br>4K or HD Camera<br>3 x comp, 1 x HD<br>Up to 12 x comp, 4 x HD |
| LIGHTING | Up to 16 dimmable LED  |

## Data Interfaces/Vehicle Power

|                       |   |
|-----------------------|---|
| DATA                  |   |
| Standards:            | 4 x Ethernet 10/100T<br>11 x serial RS232/485   |
| Optional:             | 16 x Ethernet 10/100T,<br>44 x serial RS232/485 |
| POWER                 |   |
| Vehicle power system: | DC  |
| Total Power:          | 102kW (137hp)                                   |
| Battery compatible:   | Yes   |

## Tooling

|                               |   |
|-------------------------------|---|
| OPTIONAL HYDRAULIC POWER UNIT | 25kW (34hp)   |
| SPARE HYDRAULIC CHANNELS      |   |
| Standard:                     | 1 x Curvetech® 8ch MCU                              |
| Optional:                     | 1 x Curvetech® 8ch MCU                              |
| GYRO STANDARD                 | 1 x Sonardyne Sprint                                |
| CAMERA PAN/TILT STANDARD      | Up to 2 Electric                                    |
| INSTRUMENT POWER STANDARD     | 3.6kW   |
| MANIPULATOR                   | 1 x 7F (pos feedback heavy duty)                    |
| GRABBER                       | 1 x 5F (rate, heavy duty)                           |
| CONTROL CABIN STANDARD        | 20ft, A60 ISO, Zone II option                       |
| CONTROL SYSTEM STANDARD       | SMD ROV Control hardware<br>Hybrid Cyberchair, Dual |
| TOUCHSCREENS                  | 4 x 32" TFT Video wall with video                   |
| SUITE INCOMING POWER SUPPLY   | 380V-480Vac<br>690Vac 3 phase 60Hz/50Hz (optional)  |
| TMS CONTROL /INTERFACE        | SMD TophatE,SMD GarageE                             |

## ROV Control

|                                      |
|--------------------------------------|
| SMD Lightweight Compact LARS         |
| Active or passive heave compensation |
| Aramid/SWA umbilical choices         |

