

HIGH  
PERFORMANCE  
COMPACT  
ELECTRIC WORK  
CLASS ROV  
ATOM



ENGINEERING  
EXCELLENCE  
UNDERWATER

# HIGH PERFORMANCE COMPACT ELECTRIC WORK CLASS ROV ATOM

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.

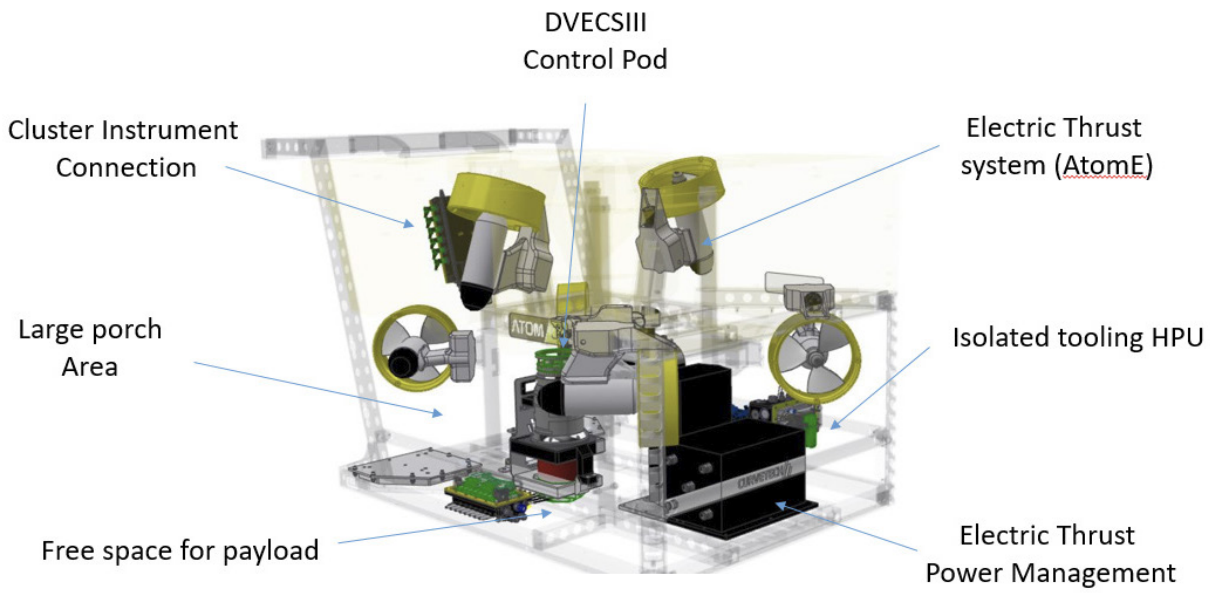
Atom EV is constructed from the latest Curvetech® modular robotic components used across SMD's fleet of next generation vehicles.



## FEATURES

- Compact and Lightweight
- True 800kg Bollard Pull
- 4 knot forward speed
- Precise closed loop thrust control
- 150kg Payload (with manipulators)
- Space for instruments and tools
- Optional Isolated Tooling Hydraulics
- SMD DVECSIII Digital Telemetry
- Real-time Vehicle Analytics

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## VEHICLE SPECIFICATIONS

### GENERAL

Depth rating	
Standard	3000msw
Optional	1000, 2000, 4000, 6000msw
Dimensions	
Length	2600mm
Width	1500mm
Height	1560mm
Weight in air (std)	2000kg
Payload	150kg
Through Frame Lift	1500kg
Aft TDU mounting	TBC

### PERFORMANCE

Bollard Pull (actual)	
Forward/aft	802kgf
Lateral	802kgf
Vertical (up)	790kgf

### 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

### 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® Multi-ch LF/MF/HF 100LPM

### Instruments

Video Capability	
Standard	3 x comp, 1 x HD
Optional	up to 12 x comp, 4 x HD

### Data

Standard	4 x Ethernet 10/100T, 11 x serial RS232/485
Optional	16 x Ethernet 10/100T, 44 x serial RS232/485

### Lighting

Standard	Up to 16 dimmable LED
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### Gyro

Standard	1 x Sonardyne Sprint
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### Camera pan/tilt

Standard	Up to 2 Electric
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### 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
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### Control System

Standard	SMD ROV Control hardware Hybrid Cyberchair, Dual
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### touchscreens

	4 x 32" TFT Video wall with video
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### suite

Incoming power	
supply	380V-480Vac
Optional	690Vac 3 phase 60Hz/50Hz

### TMS Control

/Interface	SMD TophatE, SMD GarageE
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## DECK EQUIPMENT OPTIONS

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

## CONTACT US

### SMD

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