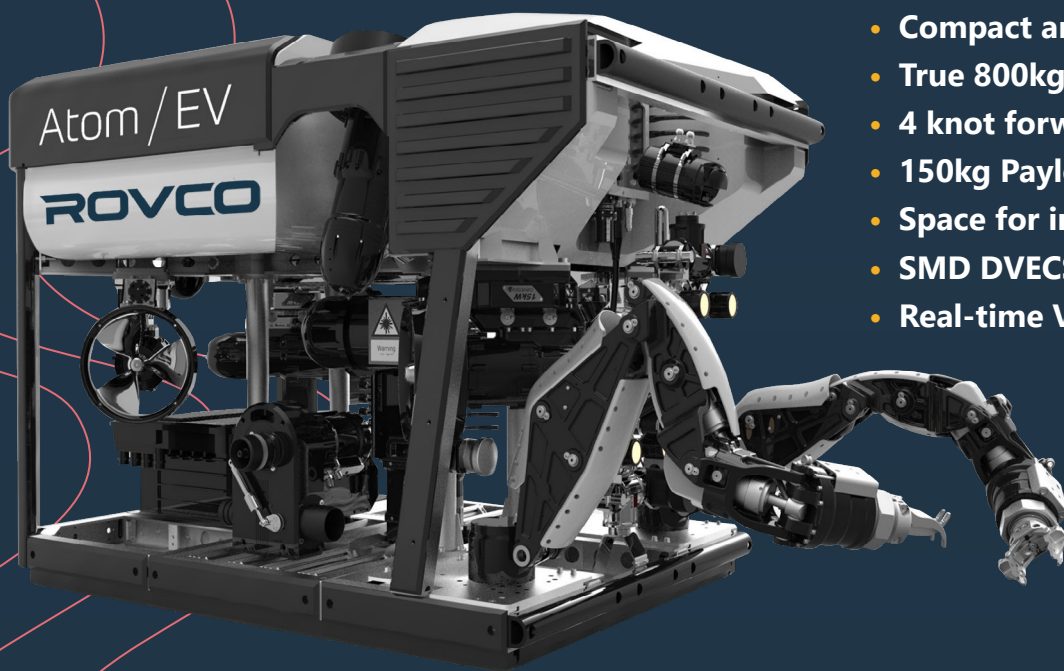


Atom EV

Work-Class ROV



- 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

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.

Vehicle Specifications

Weight in Air	2000 kg
Dimensions LxWxH	260 x 150 x 156 cm
Depth Rating	3000msw (1000, 2000, 4000, 6000msw optional)
Payload	150 kg (with manipulators)
Through Frame Lift	1500 kg
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 4K or HD Camera 3 x comp, 1 x HD 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 11 x serial RS232/485
Optional	16 x Ethernet 10/100T, 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 Hybrid Cyberchair, Dual
Touchscreens	4 x 32" TFT Video wall with video
Suite Incoming Power Supply	380V-480Vac 690Vac 3 phase 60Hz/50Hz (optional)
TMS Control /Interface	SMD TophatE, SMD GarageE

Deck Equipment Options

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