

# Sub-Atlantic Apache ROV



## An Electric Observation-Class Remotely Operated Vehicle



Sub-Atlantic's fully electric Apache remotely operated vehicle is a compact, high performance, professional ROV system which can be used for a variety of underwater tasks including observation, survey, NDT inspections and tooling.

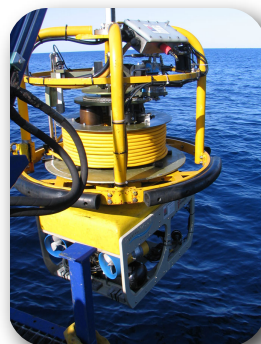
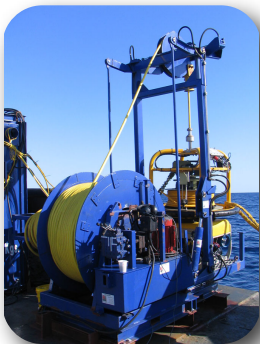


### Capable

This small, professional inspection ROV delivers high thrust from Sub-Atlantic's reliable AC power thruster system. The Apache provides high quality video for inspection work, but also has the capabilities for running underslung tool packages such as tree valve torque tools, high pressure water jetting pumps and small hydraulic or electric manipulators.

### TMS or Live Boat Operation

The Apache ROV can be free-flown in 'live boat' mode or deployed using the launch & recovery A-frame (LARS) and top-hat style tether management system (TMS).



### Control Cabin

For offshore projects using the LARS and TMS systems, the Apache ROV is available with an A60 combined work space control cabin. This allows a comfortable work environment for the crew and suitable space for spares storage and maintenance.



### Compact Control

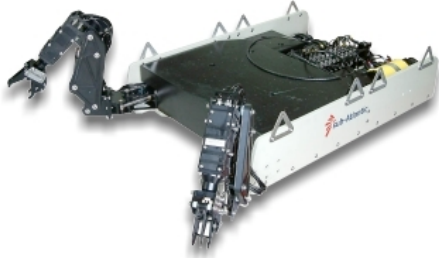
For inland projects or operation in small control spaces, the system can be used with Sub-Atlantic's standard 19 in. rack mount flight case. The control console comes with the Surface Control Unit (SCU), the Hand Control Unit (HCU), (2) 9 in. color monitors and (1) video recorder.



## Apache System Specifications

### Tooling

The Apache ROV is more than an inspection vehicle. By adding optional tooling packages, this system can perform tasks normally reserved for larger work-class ROVs.



**Multi-function Manipulators**



**Pipeline Survey**



**Torque Tool**

### General Information

Depth Rating.....	1000m (3,280 fsw)
Payload.....	30kg (66.2 lbs.)
Height.....	620mm (24.4 in.)
Length.....	900mm (35.4 in.)
Width.....	700mm (27.6 in.)
Mass in Air.....	140kg (308.7 lbs)
Propulsion.....	(2) Off Axial Horizontal Thrusters
.....	(1) Vertical Thruster
.....	(1) Lateral Thruster
Performance (Bollard Thrust).....	Forward 490N (110 lbs)
.....	Reverse 390N (87 lbs.)
.....	Lateral 290N (65 lbs.)
.....	Vertical 290N (65 lbs.)
.....	Turning Rate 120 degrees/second
Power Requirements.....	7.6kVA @ 440V AC 50/60Hz
Construction.....	Polypropylene w/ SS Alloy Load Frame
Lighting.....	(3) 220V AC (Up to 500W Dimmers)
Cameras.....	(2) Kongsberg SIT
.....	(1) Kongsberg Color Zoom
Sonar.....	Imagenex 881a Scanning Sonar
Features.....	Auto Depth/Heading/Cruise Control
.....	Leakage Protection Units
.....	Tether/Umbilical Turns Counter
.....	Video Text Overlay
.....	Frame Grabbing Software
Telemetry.....	Downlink (8) Analog & (16) Digital
.....	Uplink (8) Analog & (16) Digital
.....	Baud Rate 50k
.....	Communication Link RS 485
Tether Management System.....	Bottom Entry Top Hat
.....	Diameter 1.42m (4.7 ft.)
.....	Height 1m (3.3 ft.)
.....	Weight 350kg (772 lbs.)
Excursion Tether.....	Length 125m (412 ft.)
.....	Diameter 19mm (.75 in.)
.....	Breaking Strength 1kN (225 lbs.)
Available Tooling.....	(4) Function Manipulator
.....	Rotating Wire Brush
.....	High Pressure Water Jet
.....	Rope Cutter
.....	Cathodic Potential (CP) Probe

### Surface Equipment

Main Winch/A-Frame.....	Height 1,750mm (5.7 ft.)
.....	Length 3,010mm (9.9 ft.)
.....	Width 1,350mm (4.4 ft.)
.....	Safe Working Load 9,810N (2,003 lbs.)
Armored Lift Umbilical.....	Length 600m (1,968 ft.)
.....	Diameter 27mm (1.1 in.)
.....	Breaking Strength 160kN (35,969 lbs.)
Slip Ring Assembly.....	(4) Pass Fiber Optic Unit
A60 Combined Cabin Control Van.....	Height 2,500mm (8.2 ft.)
.....	Length 6,100mm (20 ft.)
.....	Width 2,500mm (8.2 ft.)
.....	Control Area Length 3,000mm (9.8 ft.)
.....	Workshop Area Length 3,000mm (9.8 ft.)

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