Unmanned surface vehicle technology not only removes the need for having personnel onboard but also removes the constraints imposed by such a payload, such as personnel related safety and accommodation requirements. This has led to the development of semi-submersible technology where the size and shape of such craft can offer ship-like seakeeping and speed performance at a fraction of the size and cost of a ship.

ASV Ltd has demonstrated such technology in the commercial sector for hydrographic survey and in the military sector for surveillance and mine countermeasures. With part of the craft being above the water surface, this allows conventional air-breathing propulsion systems and communications and navigation systems to be used, along with other above-water instrumentation. The low motion characteristics and the larger underwater part of the craft provide for the ability to deploy high quality sonars and other underwater sensors.

The weight, speed, range and payload capacity of the ASV semi-submersibles are arranged to suit their particular applications. Launch and recovery may be from a ship or the shore and endurance may be measured in days or weeks. Above-water payloads include radars, cameras and microphones, and below-water payloads include sonars, underwater communications and positioning systems and other underwater vehicles such as ROV’s or UUV’s.
ASV6000 AND ASV9000

ASV 9000
OCEAN CLASS SEMI-SUBMERSIBLE

ASV 6000
COASTAL CLASS SEMI-SUBMERSIBLE

ASV 9000
LENGTH OVERALL: 9 M
BEAM OVERALL: 1.2 M
WEIGHT: 6 TONNES
PROPULSION: PRIMARY DIESEL, SECONDARY ELECTRICAL SYSTEM
CRUISE SPEED: 10 KNOTS
SPRINT SPEED: 14 KNOTS
RANGE: 1500 MILES AT 10 KNOTS
PAYLOAD OPTIONS: MULTIBEAM AND SIDESCAN SONAR, USBL, PAYLOAD WINCH, SMALL AUVS, INSPECTION ROV AND CABLE SYSTEM, RF/SATELLITE COMMUNICATIONS, VIDEO CAMERAS, LOUD HAILER. PLEASE DISCUSS REQUIREMENTS WITH ASV.

ASV 6000
LENGTH OVERALL: 6 M
BEAM OVERALL: 0.65 M
WEIGHT: 1.8 TONNES
PROPULSION: DIRECT DRIVE DIESEL. OPTIONS FOR DIESEL ELECTRIC.
CRUISE SPEED: 6 KNOTS
SPRINT SPEED: 8 KNOTS
RANGE: 400 MILES AT 4 KNOTS
PAYLOAD OPTIONS: MULTIBEAM AND SIDESCAN SONAR, USBL, PAYLOAD WINCH, INSPECTION ROV AND CABLE SYSTEM, RF/SATELLITE COMMUNICATIONS, VIDEO CAMERAS, LOUD HAILER. PLEASE DISCUSS REQUIREMENTS WITH ASV.