

## C-Worker

### OIL FIELD SERVICES AUTONOMOUS VEHICLE

C-Worker 6 offers a step change in offshore survey operations. The extended duration, multi-use USV has been developed to carry out subsea positioning, surveying and environmental monitoring. The vehicles control system, ASView+ has been developed over a number of years and is operating on a wide variety of unmanned systems.

#### Key Features

- Highly survivable & repairable rugged aluminium hull
- Wrap around, light weight innovative durable fender
- Proven reliability, allows the users to focus on the sensor/payload and field operations
- Self-righting (loaded or light)
- Fully redundant power propulsion and communication systems
- Up to 30 days endurance at cruise 4 knots
- Max speed 6.5 knots



#### Applications

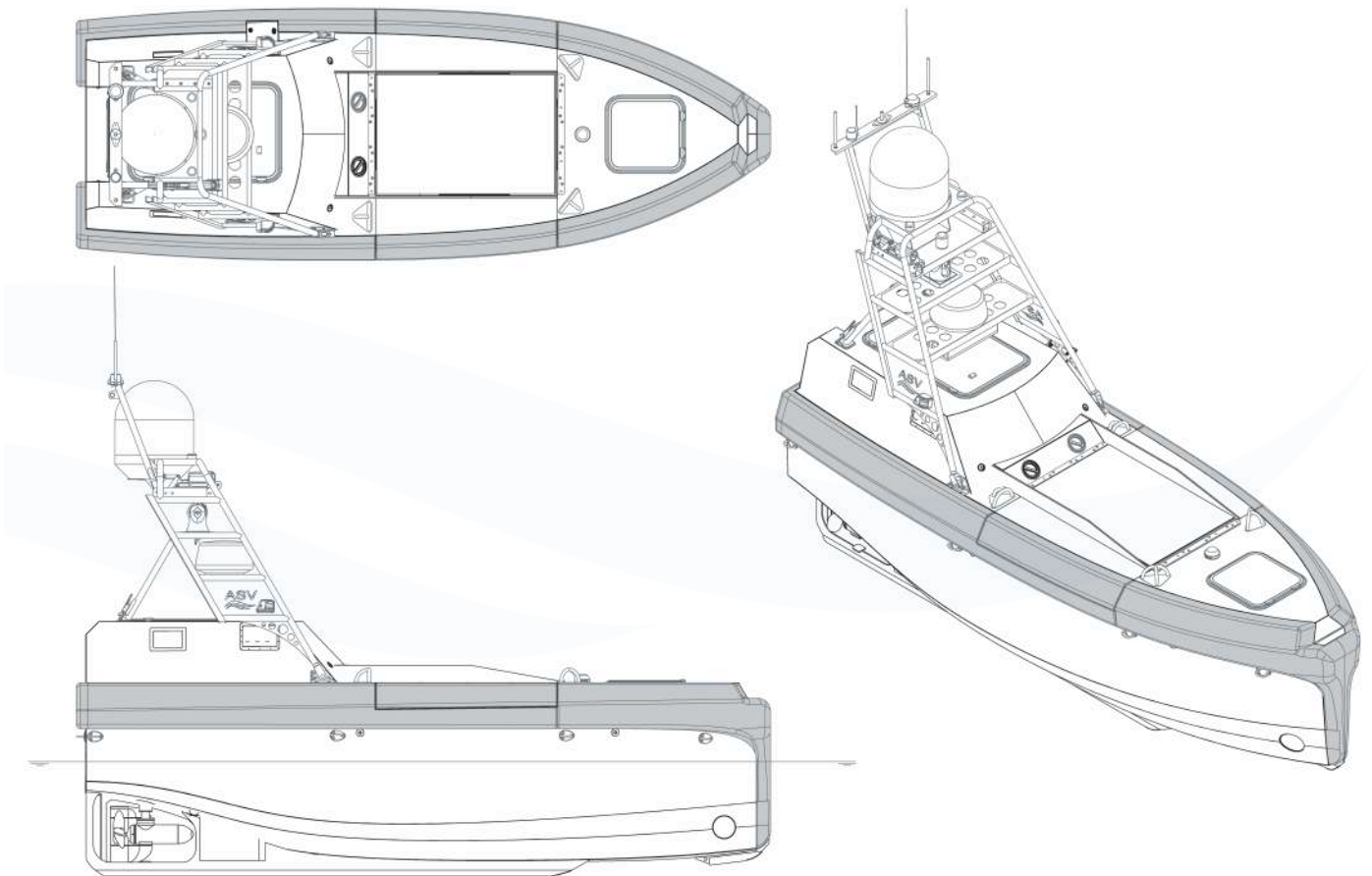
- Marine construction survey: USBL, C-Nav DGNS
- Metocean data collection: ADCP, weather station, CTD
- Environmental: Passive Acoustic Monitoring (PAM)
- hydrocarbon detection, skimmers, dispersants
- Seismic support: CTD, USBL, PAM, ADCP
- Site survey: multibeam sonar, motion sensors, CTD
- sidescan sonar, observation class ROV
- Security: cameras, video, infrared sensors



Autonomous Surface Vehicles Ltd designs and constructs rugged and reliable unmanned systems using innovative marine technology for commercial, government and military applications. Established in 1998, ASV is based near Portsmouth in the United Kingdom.

## C-Worker - Technical Specification

Physical	C-Worker
Length	5.8m (incl. fender)
Beam	2.2m
Height	4.75m, 2.2m with mast folded
Draft	0.9m
Weight Speed/Endurance	Lightship: 3500kg, Loaded: up to 5000kg 2 diesel generator sets 13kW each Driving two 10kW electrical propulsion azimuth pods via a battery bank 30 days at 4knots, 10 days at 6+knots
Command and Control	Manual or Autopilot control via ASView+ control system. Communications via line of sight radio systems or satellite for over the horizon operations. Integrated suite of navigation sensors including GPS, AIS, radar, day and night vision cameras, weather station and motion reference unit ensuring safe operation. Full payload integration with data storage and feedback.



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