

Carrier Seal



Carrier Seal is an eight-man Tactical Diving Vehicle (TDV) designed for covert insertion and extraction of Special Operations personnel. Crewed by a driver and vehicle Commander, Carrier Seal is able to undertake rapid over the horizon surface operations. However, where the threat level requires discretion, Carrier Seal may run awash with minimum signature and when required, run fully submerged for covert infiltration, ex-filtration or surface threat evasion.

Besides carrying personnel and their field equipment through the littoral zone, to facilitate Intelligence, Surveillance, Target Acquisition and Reconnaissance (ISTAR) operations, Carrier Seal may accommodate additional mission specific systems such as mounted weapons, side-scan sonar, communications equipment, Remotely Operated Vehicles (ROVs) and Autonomous Underwater Vehicles (AUVs). For operations requiring extended range, the craft can carry additional fuel tanks and battery packs.



PILOT AND CREW

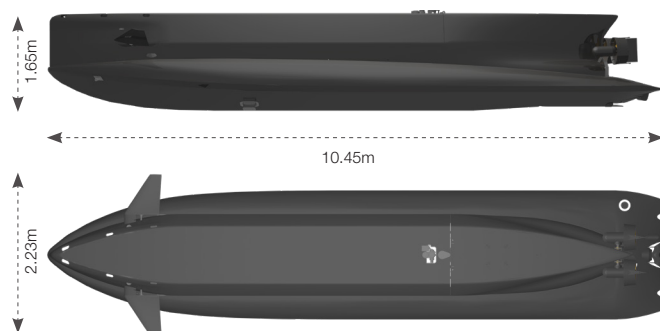
The driver and vehicle Commander sit in front of the instrument and control panels. Passengers are seated behind the crew within the protection of the hull. Access panels enable rapid ingress and egress.

NAVIGATION

The Steering Information Navigation and Control (SINC) system combines data from the Global Positioning System (GPS), gyro compass, depth sounder, Obstacle Avoidance Sonar (OAS) and Doppler Velocity Log (DVL).

OPTRONIC MAST

An optronic sensor suit is installed on top of the height adjustable tactical mast, consisting of thermal imaging, colour TV camera, GPS and navigation lights.



SPECIFICATION

PHYSICAL

Length stored	10.45m
Beam stored	2.23m
Height stored	1.65m
Length deployed	10.45m
Beam deployed	2.23m
Height deployed	1.65m
Weight	4,000kg
Payload (including divers)	1,000kg neutral buoyant

OPERATIONAL

Max depth	30m
Typical transit depth	4m
Persons	2 + 6
Surface max speed	30 knots
Surface cruise speed	25 knots
Surface range	150nm (75nm additional fuel bag)
Subsurface max speed	>5 knots
Subsurface cruise speed	4 knots
Subsurface range	30nm (+15nm with additional batteries)
Thrusters	2 x 10 kW
Battery pack	2 x 20 kWh (+2 x 20 kWh with additional batteries)