

USV

Ummaned
Surface Vehicle



MILITARY
PROFESSIONAL

 **NARWHAL**
INFLATABLE CRAFT

First general-purpose unmanned vessel developed together with the company UTEK. The main advantages are its fast use and recovery, as well as its high maneuverability and maximum speed, which allows it to quickly approach the target and carry out approach or evasion navigation in a very agile way.

The vessel is controlled from a remote station that allows high-resolution video to be sent in real time in addition to all the telemetry of the vessel's status. It has a mission planner that allows autonomous waypoint navigation and various displays to integrate all the information collected by on-board sensors. They can operate at night with a high degree of security



The USV of Narwhal and UTEK can be armed and has already been evaluated by NATO in naval operations. Its sensor block includes day camera, night camera and laser rangefinder, being able to detect objectives at more than 7 km away, with an effective shooting range of 2 km and an immediate use magazine charger of 250 projectiles. With top speeds of more than 42 knots and great maneuverability. Its load capacity allows it to embark payloads close to 1,000 kg, which provides a very versatile platform for different applications.

It has a ground station to control the vessel and receive telemetry. Both the position of the USV and all the information acquired by its sensors are integrated with the mother ship's systems, which facilitates interoperability with other elements. Different configurations can be offered, from the most basic with its direct radio control system to fully autonomous with OTH links.

Narwhal is a firm specialised in the construction of rigid inflatable boats and professional large length boats. With more than 60 years manufacturing inflatable boats, it is a leading company with a presence in five continents.



Narwhal has a complete range of professional boats that offer fully customised solutions to sectors such as the Navy, Civil Protection, security, rescue and/or environmental organisations, among others. Its lines of rescue products (with SOLAS and rescue approval), emergency products (fire-fighting, medicalised and flood models), its offshore (military and anti-pollution), surveillance and collapsible vessels (multipurpose and large-capacity) must be highlighted.

Narwhal bases the manufacture of its boats on three fundamental pillars: SAFETY, RESISTANCE and QUALITY. These attributes have allowed it to position itself as a leader in its sector.



DIMENSIONS

Length: 6.70 m
 Beam: 2.70 m
 Max depth: 1 m
 High: 3.5 m
 Weight: 2,000 Kg

PAYLOADS

EO/IR surveillance camera
 Navigation camera
 AIS
 Speaker/microphones
 Subsea camera

PERFORMANCES

Engine: inboard 150 HP
 Max speed: 25 kn
 Max load: 1,000 Kg
 Redundant comms
 Fully autonomous
 Optionally Piloted Vehicle
 LARS

MISIONS

ISR
 Force protection
 Interdiction
 Naval target
 SOF support
 Comms. relay
 SAR
 MCM
 ASW

BACKGROUND

Ships vulnerability while docked; naval bases susceptibility; secure fleet operation areas (maritime shield); clearing areas (protected passage).

SOME SAFs ADVANTAGES

Elimination of risks for the crews; continuous operation; reduction of human error; few operator needed; complement to manned systems; force multiplied.