

NEARSHORE (AUTONOMOUS) SURVEY VESSEL

ASV NG COASTAL



The ASV NG COASTAL is a solid 10,7m long brand new low-draft coastal survey boat specifically designed for nearshore marine surveying and is outfitted with modern positioning, bathymetric, geophysical, geomorphological and geotechnical equipment. She can also be successfully utilized for observation class ROV inspections and oceanographic investigations.

The boat is fitted with a Sea Machine SM300 autonomous command and control system that allows her to be operated also as an unmanned Autonomous Surface Vessel (ASV).

She is also equipped with an auxiliary electric overboard engine to access and survey environmentally protected areas.



TECHNICAL SPECIFICATIONS

Length o.a.	10,70 m
Breadth	3,00 m
Draft	0,50 m
Weight lightship	5.500 kg
Payload	1.500 kg
Main Engines	2x 250 hp Yanmar
Propellers	2x Alamarin 285 ACU water jets
Auxiliary Engine	1x electric overboard engine Torqeedo Cruise 10.0TS
Fuel tanks	2x 300 l
Max Speed	32 knots
Cruise Speed	26 knots
Range	200 nm

MAIN FEATURES

RIGID BUOYANCY BOAT CONCEPT

- ◆ Indestructible Rigid Buoyancy Boat (RBB) made from welded HDPE sheets
- ◆ Transportable on a truck
- ◆ Little or no maintenance
- ◆ Fewer hull repairs, i.e. less time out of the water off service
- ◆ Longer life span than other hull materials
- ◆ CSR: Recyclable material, low carbon footprint, no anti-fouling

BENEFITS OF HDPE

- ◆ Shock absorbing – extremely high impact resistance
- ◆ Completely inert to chemicals and fuel
- ◆ Black HDPE has a very high UV resistance
- ◆ Will not corrode or degenerate in water
- ◆ Less marine growth to hull; without use of toxins or other additions
- ◆ Very easy to repair
- ◆ Low carbon footprint and 100% recyclable



PROPULSION

- ◆ 2x 250 hp Yanmar diesel engines with drive by wire controls and display
- ◆ 2x Alamarin 285 ACU water jets
- ◆ Hydraulic steering, electronic controls
- ◆ Engine battery
- ◆ Aluminium fuel tank, fuel filter with water separator
- ◆ Auxiliary electric overboard engine Torqeedo Cruise 10.0TS to cover areas with environmental limitations

MORE FEATURES

HULL SET-UP

- ◆ Deep V-shaped hull with spray rails
- ◆ PE floatation balls in its buoyancy chambers, collision bulkhead
- ◆ Rigid hull with open stern made of HDPE plate thickness 15, 20 and 40mm
- ◆ Hull colour in black (UV resistant)
- ◆ Aluminium isolated cabin, powder coated
- ◆ Cabin layout: 3 workstations, 2 crew seats
- ◆ Separate room with toilet
- ◆ Glass windows all around
- ◆ Four robust lifting eyes enable hoisting the boat using lifting slings
- ◆ Moonpool 485x485mm with 200mm high flange and hatch at foredeck
- ◆ Aluminium removable sensor pole at bow
- ◆ Aluminium side bracket for survey sensor
- ◆ Aluminium hinged A-frame at stern with electric winch 250kg SWL and 300m cable
- ◆ Aluminium davit 150kg SWL at gunnel with manual winch

EQUIPMENT AND OUTFITTING

- ◆ TPE fenders all around
- ◆ One automatic bilge pump, one hand pump
- ◆ 2 Fire extinguishers
- ◆ Switch panel with automatic fuses
- ◆ LED: navigation, deck, interior, orange flash and work floodlights
- ◆ Six mooring cleats on gunwales
- ◆ 2 Windscreen wipers with fresh water tank, separate water tap on aft deck
- ◆ Paguro SY5 230V diesel genset (5kW)
- ◆ Charger for batteries from gen set
- ◆ Victron Energy DC inverter 12/24V
- ◆ Raymarine Element 12 S chart plotter, thru hull depth sounder
- ◆ 2x Raymarine Ray 53 VHF with antenna
- ◆ AIS Raymarine 700
- ◆ Compass
- ◆ Sea Machine SM300 autonomous command and control system for unmanned operations

