tehnomont

. CAMARC DESIGN.

17M PATROL BOAT For Cyprus Port and Marine Police

This 17m Patrol Boat is designed by Camarc Design, to provide fast and efficient running at speeds, combined with excellent seakeeping. The 17m Patrol Boat is one of a series of high-speed designs by Camarc with a total of over 500 craft in service Worldwide used by Government Navies, Coast Guards, Port Authorities and Police Forces Worldwide.



MULTI-ROLE Border Control Combating illegal migration The Fight Against Smuggling Observance of the Law At Sea Search and Rescue

r

NAYTIKH AETYNOMIA

MARINEPOLICE













CONSTRUCTION Full Aluminium Construction

CAPACITIES

Fuel capacity: Fresh Water capacity: Complement: 4700 litres 250 litres 6 Crew & 12 Passengers

WHEELHOUSE ACCOMMODATION

Seating for 6 crew Weapons Locker

LOWER ACCOMMODATION

WC space & Pantry Mess area & storage

FEATURES

Camarc Refined Hull D fender Resilient Wheelhouse All-round Visibility Safety rail system 3 Rescue Zones Independant Fuel Tanks

MACHINERY & PROPULSION

Engines: 2x 895kW - MTU 8v 2000 M84L Propulsion: 2x Fixed pitch propellers Gearboxes: 2x ZF 665A Gearboxes Bow Thurster: Side Power SH160 Stabiliser: : Gyro stabiliser, Seakeeper 7HD Ride Control: Dynamic trim control interceptors



. CAMARC DESIGN.











efficiency and comfort.





RESILIENT WHEELHOUSE

A resilient wheelhouse will be fitted to enhance noise & vibration reduction and also to facilitate main engine removal.

INSULATION

Sound insulation schemes and material options can be incorporated to reduce and improve operational noise levels. With insulation materials alone noise levels in the region of 75 dBA can be achieved.

RESILIENT WHEELHOUSE

To further reduce noise and vibration levels a resilient wheelhouse can be incorporated in to the design. Wheelhouse noise levels in the region of 65 dBA can be achieved with the combination of insulation and resilient wheelhouse.



Noise level dependant on vessel size, speed and noise reduction solutions.







RESCUE Systems

For search and rescue operations, three rescue zones are included in the design. Each rescue zone allowing access to the waterline for recovery of MOB and casualties. The aft platform includes a dive ladder to assist in diving operations and the side rescue wells include a hinging cover for when not in use.





3 Rescue zones



PORT & STARBOARD SIDE RESCUE WELLS



AFT RESCUE PLATFORM

RESCUE FEATURES





Storage

Large storage lockers on aft deck for rescue equipment including scuba tanks.

12 Rescued Persons On Deck

Large deck area for sitting space for rescued persons and stretcher.

3x Life Rings

Aft Rescue Platform & Dive Ladder

Lower after platform including a hinging dive ladder for rescue operations.

Side Rescue Wells

ΝΑΥΤΙΚΗ ΑΣΤΥΝΟΜΙΑ

ARINEP

Port and Starboard both featuring a hinging cover. Over head flood lights and lower handrails to aid with rescue operations.



HULL DESIGN

The Camarc double chine hull exhibits an excellent resistance profile resulting in improved efficiencies for medium speed applications over that of conventional hard chine hulls. The Camarc resistance profile avoids the significant hump typically found on conventional vessels reducing load at medium speed. The results are well proven with over 500 craft in service exhibiting an efficient, dry & stable platform with excellent all-round seakeeping capability. The Camarc double chine hull form is the choice of experienced operators Worldwide including Government Navies, Coast Guards, Police Forces, Port & Pilotage Authorities.







HULL DESIGN

This specific design features the latest Camarc refined hull form. Developed during an extensive testing programme, from tank testing through to full-scale trials followed by proven in-service operations. The hull has been refined in the forward region for finer entry and extended waterline length, with vertical stem above water only, maintaining a curved forefoot for balanced all-round seakeeping. The refined hull has been proven to give significant improvements in efficiency, speed and resulting fuel consumption and is now proven in-service with Operators.









CAMARC REFINED HULL PROVEN IN-SERVICE

MARINE POLICE



STRUCTURE

The Camarc 17m uses an all-aluminium robust structure design. This includes specific design details for high-speed Aluminium craft and reinforcement in the way of the fender structure to protect against boarding impacts, developed by Camarc Design with over 30 years of experience.





- Lightweight
- Robust / Strong
- Easily Modified
- Simple Repairs
- Kits & weight control
- Recycled material



CAMARC ALUMINIUM 17M BOAT UNDER CONSTRUCTION









tehnomont

CAMARC DESIGN





FENDER SYSTEM



Commercial vessels benefit with Manuplas cast fender systems. The system is proven of being robust and highly durable in the harsh and unpredictable Marine environment. Manuplas® commercial vessel fendering is suitable for a wide range of vessel types including: Wind Farm Support Vessels, Workboats, Pilot Boats, Lifeboats, Patrol Boats and Military Vessels.

CAST FENDERING BENEFITS:

- High quality, smooth and consistent surface finish for maximum visual appeal
- Less than 1/3 of the weight of rubber fenders, helping to improve vessel speed and fuel consumption
- Custom designs to suit budget and application
- High impact and abrasion resistance prevents damage to the vessels structure
- Male and female joint system supplied as standard
- Tooling manufactured in-house enabling tight controls of quality and lead times
- A virtually non-marking external finish
- Variable core densities to suit vessel usage or specific location on vessel
- Custom moulded bow and corner sections
- Square, snaped or custom shaped terminating ends available
- Easily bonded to the hull for quick installation
- Rapid lead times



CFT000015







Helm & crew visibility is critical to the safe operation of any vessel. Crews want to have unrestricted 360° visibility from the helm so that the location and safety of their crew can be monitored at all times. This patrol boats optimise window position and minimise surrounding structure to maximise all-round visibility.

A flybridge is also featured to give all around visibility while performing needed duties. Added to that all around lighting with the help from deck lights and overhead flood lights means the deck is always lit during night / poorer light conditions.







WEAPONS

Fitted with 2 weapon mounts and shields on both raised decks, giving excellent visibility and firing arcs for mounted weaponry.

· CAMARC DESIGN ·







GYRO STABILISER

TECH SPECS

Rated Speed	7,000 RPM
Angular Momentum at Rated RPM	7,000 N-M-S
Anti-Rolling Torque at Rated RPM	14,630 N-M
Spool-up Time to Rated RPM	35 minutes (7,000 RPM)
Spool-up Time to Stabilization	25 minutes (5,600 RPM)
Spool-up Power	
AC Motor	3000 Watts Max
DC Control	240 Watts
Operating Power	
AC Motor (sea state dependent)	1000 - 2000 Watts
DC Control	240 Watts
AC Input Voltage	208 - 230 VAC (+/- 10%), 50/60 Hz,
	Single Phase
DC Input Voltage	24 VDC @ 10 Amps
Weight	1,210 lbs (550 kg)
Envelope Dimensions	Length x Width x Height
	33.5 L x 35.6 W x 28.3 H (Inches)
	0.852 L x 0.903 W x 0.720 H (Meters)
Noise Output	68-70 dBC at 1 meter









ACTIVE INTERCEPTOR

The Interceptor system creates a hydrodynamic lift force by intercepting the water flow underneath the hull. In that way the interceptor creates a lift force acting on the hull instead of on the trim-device itself. In difference of the normal trim tab.

Humphree's patented design of the Interceptor is a compact and robust unit that has an adjustable blade that goes down vertically into the water. Due to that it doesn't work against the water pressure that it builds up under the hull, it can be adjusted very fast and with high precision. Its compact design also makes it less vulnerable to impacts.

- Effective at higher speeds.
- Adjustable in operation
- Can be automated throughout speed range.
- Reduces roll and pitch motions at speed if fitted with ride control feature.









