



# OPB 40

## Coast Guard Patrol Vessel



OPB 40 is developed for guard purposes in coastal areas and the open sea

### Mission and purpose

- Patrol and protection of national waters,
- Coast guard duties,
- Search and rescue missions,
- Pollution control

### Main particulars

- Loa = 40.25 m,
- Lwl = 37.30 m
- B = 7.10 m
- T = 1.75 m
- Dmax = 185 t
- N = 4320 KW
- Vmax = 30 kn
- Vk = 15 kn

### Machinery and equipment

- Main engines 2 x MTU 12V4000M73L, 2160 KW,
- Gear box 2 x „ZF „
- Diesel generators 3 x Volvo PENTA D5A TA 107 KVA
- Stern platform for RIB lanching
- Opto-electronic sensors for fair control
- ARPA radar „SIMRAD“ (FURUNO)
- EGDIS „SIMRAD“
- Gyro compass „ANSHITZ“
- GPS
- AIS
- NAVTEX „FURUNO“
- Met station „SIMRAD“
- EPIRB
- VHF 2 x „SAILOR“
- Depth sonar
- Internal ship communication

Crew 12 + 3 quest  
Endurance : 1000 nm & 15 kn  
Autonomy : 10 days  
Full operability up to sea state 4 (WMO)

## Armament

- 1 x bow gun up to 30 mm with fire control
- 2 x machine guns 12,7 mm
- 4 x machine guns 7,62 mm



## TECHNICAL DESCRIPTION :

**OPB 40 coastal patrol vessel** is designed for the protection and safeguard of the sea, rivers and lakes.

The boat is equipped with two MTU 12 V 4000 M 73L propulsion engines and ZF reversing gearbox. Each propulsion engine has a power of 2160 KW. The boat is propelled by a propeller shaft and two bronze fixed-wing propellers.

Electric power is supplied from two diesel generators - Volvo Penta D5A TA, each having the power of 85 KW (107 KVA). The system is designed for parallel operation of the two generators.

The ship is supplied with 3 x 380 V 50 HZ AC.

Auxiliary voltage of 24 V DC / AC is supplied by a 220V AC / 24 V DC converter and 24 V 360 Ah batteries. The starting of the main and auxiliary engines is executed by their independent batteries.

The ship is designed with two engine rooms (main and auxiliary), a control room for monitoring and control of the main and auxiliary engines and units. The main engine room accommodates the main engines with reversing gearboxes, a fuel transfer pump with filter, a universal pump, ventilation system with an air cooler and an air cooling pump.

The auxiliary engine room accommodates two diesel generators with the main distribution board and 380V/220V AC / 24 V DC static power converters, another universal pump, fresh and sea water booster pumps, shipborne air-conditioner and seawater desalination system.

The boat is equipped with fuel tanks with a capacity of 34 t, an oil tank 1 t, a 1 t waste oil tank, 4 t potable water tanks, gray and black water tanks, each with a capacity of 1.8 t, and a faecal pump for discharge of foul waters out of the vessel.

The crew is accommodated in 2 single-bed, 2 double-bed and 3 triple-bed cabins in the fore of the ship. The residential area also includes a mess room, a galley, a food and a general-purpose storeroom. In the fore of the vessel there is also a storage chamber for the ammunition used with the 30 mm automatic cannon and two sanitary facilities, i.e. bathrooms.

The rudder is accommodated in the aft, as well as a RIB and 12.7 mm, 7.62 mm and 5.56 mm ammunition chamber.

The wheelhouse with all the monitoring, control and navigation units are accommodated in the superstructure of the vessel. The boat is equipped with the following navigation devices: ARPA radar „FURUNO“ or „SIMRAD electronic card (EGDIS) „SIMRAD, gyrocompass „ANSCITZ,, GPS; „NAVTEKS,, FURUNO, met station, depth meter – sound probe, and necessary radio equipment. The vessel is equipped with a public address system and intercom equipment for communication between weapon stations.

The vessel is armed with a 30 mm cannon located in the fore of the main deck, two 12.7 mm machineguns in the aft of the deck and four 7.62 mm machine guns on the superstructure. Both the 30 mm cannon and 12.7 machineguns are equipped with an opto-electronic fire control system (TV camera, IR camera and a laser rangerinder).