



# Offshore Patrol Vessel 35m

The **Offshore Patrol Vessel PA35** is designed by Seatech Engineering Ltd designing team. The main purpose for this project was creating a vessel for the following tasks: maritime police missions, coastal patrol, supervision of exclusive economic zone, preventive operations, maritime border protecting, vessels identification and their exact position determination, counteraction of piracy and terrorism at sea, counteraction the smuggling and immigration control, fishing protection and marine environment protection, pursuit and apprehension of the suspected vessels, inspection and control of the vessels.

Designed patrol boat PA35 is a monohull with the hull of displacement, intermediate frames type between U and V-type, raked stem and transom aft. The chosen ship form together with propulsion makes this vessel cost-effective, measured space arrangement brings maximum comfort for crew.

#### Rules and regulations

The ship will comply with all following rules and regulations: Sea going vessels classification and construction rules of BV of other acknowledged Classification Society, IMO : Convention on the International Regulations for Preventing Collisions at Sea COLREG, IMO : International Convention for the Prevention of Pollution from Ships MARPOL, IMO : International Convention on Tonnage Measurement of Ships.

#### Propulsion

Main engines 2 x MTU 16V2000 M70-M93 each 1050-1970 kW  
Propellers 2x fixed pitch propellers(3 or 4 bleeds), hydraulically controlled, Ø abt. 1,2 m.  
Generating sets 2 pcs of 160 kVA, 3 x 380 V, 50 Hz

#### Tanks capacity

Fuel tanks volume: 33.5 m<sup>3</sup>,  
Fresh water tanks volume: 4.6 m<sup>3</sup>  
Lubricating oil tanks volume: 1 m<sup>3</sup>  
Sewage tanks volume: 8 m<sup>3</sup>





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## Principal dimensions

Length o.a.: 35,60 m  
 Length b.p.p.: 32,50 m  
 Breadth o.a.: 7,20 m  
 Breadth at waterline: 6,56 m  
 Depth to the main deck line: 4,0/4,70 m  
 Draught o.a.: 2,00 m  
 Engine power: 2 x (1050-1970) kW  
 Propulsion: 2 x fixed pitch propellers  
 Speed: 16/25 kn  
 Crew: 20 persons  
 Cruising range: 1500 mn/at speed 16 kn

## Anchoring and mooring equipment

1 anchor-mooring winch, 1 anchor of higher holding strength each mass abt. 420 kg, 1 anchor chain Ø 20,5 Q2 L=300 m, 1 anchor pocket in the center line, 1 chain locker, 2 hydraulic mooring capstans, 2 double tow bollards, 6 double mooring bollards, 1 capstan for boarding RIB.

## Electric system

Electric supply voltages: 3~50Hz 380V/230V; 24 V DC

## Electrical equipment

2 main generators: each 160 kVA, emergency generator, battery set shore supply 1 x 100 A, emergency starting motor 1 x 24 V DC, 1 main switchboards, 1 harbour switchboard, halogen floodlights, deck lighting, accommodation and machinery spaces lighting, navigation lanterns, wheelhouse console and ECR console, 1 remotely controlled searchlight, alarm systems.

## Navigation and communication equipment

Radiocommunication: 1 GMDSS station, SSB, Intercom system, watch receiver, VHF radio.

## Navigation equipment

1 plotter, 1 gyrocompass complete with repeaters, 1 steering control system with time manipulator and autopilot, 1 SITAC system, 2 control panels, 1 echosounder, 1 search light, 1 GPS receiver with NMEA signal divider, 1 day/night vision system, 1 radar

## Fire fighting equipment

NOVEC system for machinery spaces and fuel storage tanks, water fire fighting system.

## Deck equipment

intervention boat: RIB 7,4 m, 2 inflatable life rafts, life-saving appliances corresponding with International Convention and Rules, pneumatic fenders for hull protection.

## Armament

up to two 20 mm guns, two 12 mm machine guns, one 7,62 mm light machine gun

