

Holland Shipbuilding

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Don Amado

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P99

QUEEN BEATRIX CHRISTENS 10TH STAN PATROL FOR DUTCH WATERPOLICE

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VITTERS DELIVERES SPACIOUS YACHT FOR CRUISING AS WELL AS REGATTA

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CONGRATULATIONS TO THE DUTCH NATIONAL POLICE SERVICES CORPS ON THE COMPLETION OF THEIR HIGH-SPEED PATROL BOAT 'P99' EQUIPPED WITH PIPELINE SYSTEMS MADE BY MOSTERT PIJPLEIDINGEN B.V. PAPENDRECHT HOLLAND

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P99

Damen delivers 20 m patrol boat to Dutch Police Force

Builders:

*Damen Shipyards, Gorinchem,
The Netherlands*

Owners:

*KLPD – Dutch Waterpolice,
Gorinchem, The Netherlands*

On January 20th, H.M. Queen Beatrix baptised the new patrol boat for the Water Police of the Dutch Police Corps. The ceremony took place in Gorinchem, where the boat was finished. The hull and superstructure were supplied by subcontractors. The P99 is the tenth and last vessel in a series of Stan Patrol 2005's built by Damen for the KLPD.

The Dutch Water Police is responsible for research, surveillance and law enforcement on the main waterways, coastal waters and lakes within the Netherlands. Both commercial and recreational navigation are monitored. The P99 will replace the P57 as the patrol craft for the unit responsible for the Western Rivers.

Design

A primary goal in the design of the vessel was to reduce the overall weight. This allows for a more efficient vessel, with smaller and cheaper engines and with less fuel consumption throughout

the lifetime of the boat. The weight saving was partly achieved by the use of a composite deckhouse, which is mounted flexibly on the aluminium hull. An added benefit is the reduction in noise and vibrations inside the wheelhouse, which improves the working conditions for the crew.

Hull and deck

The P99 features a deep-V planing hull with propeller tunnels. The hard chine at the aft transitions into the angled

sprayrail in the forward sections. Fixed 100 mm rubber fendering around the hull makes for easy mooring or coming alongside other vessels. The propellers and rudders are protected from grounding with a small skeg forward of each propeller. A small skeg on the centreline adds directional stability.

The deck of the P99 is characterised by a lower part in the aft, which is used for boarding the tender or recovering people from the water. A rotating platform on the foredeck.

Trolling system

Propulsion of the P99 is with two Volvo D12-675 engines, coupled to gearboxes of the type ZF325-1A. These gearboxes have a built-in downangle of 7 degrees for the propeller shaft, allowing the engines and gearboxes to be installed horizontally. The gearboxes are equipped with a trolling system, which allows the variation of the pressure of the hydraulic oil in the clutch. In this way, the amount of slip in the clutch can be controlled, allowing the vessel to sail at a lower

Principal particulars

Length o.a.	19.95 m
Beam o.a.	4.96 m
Depth at sides	2.50 m
Draught max.	1.30 m

Capacities

Fuel	1.75 cu.m
Fresh water	0.26 cu.m
Sewage	0.15 cu.m
Dirty oil	0.08 cu.m
Bilge water	0.04 cu.m

Performance

Speed	42.0 km/h (23 kn)
Range	250 km (135 Nm)
Prop. power	992 kW



The navigation console has two control positions

speed than the idling speed of the main engines would normally allow for.

The 992 kW of propulsion power propels the P99 at a maximum speed of 42 km/h (22.7 knots). The 1.750 litres of diesel tankage onboard results in a range of 250 km (135 Nm).

Electric power is generated in a single Onan MDKBR diesel generator, rated at 17.5 kW. The electrical installation was done by Gebhard Electro. The exhausts of generator and main engines are led to the stern where they exit just above the waterline.

Accommodation

On the lower deck, there are a changing room, a dayhead, a small galley, an office and a store. Stairs lead up to the deckhouse, where we find a large settee on starboard side, a desk with workstation and two pilot seats for navigation forward. The boat can be controlled either from the port or starboard navigation position. All around visibility is key on a patrol boat for the police. This results in two features rarely seen on boats. Car-like rearview mirrors provide a view aft without having to turn around. Windscreen wipers on the side windows and on the central aft window assure visibility even in foul weather. There are no side doors in the deckhouse, but the visibility is sufficient for the skipper to manage close-quarter manoeuvring from the conning position.

Airdraught

The P99 can easily pass under low

bridges. The navigation light mast can be lowered hydraulically, which reduces the airdraught from the standard 9 metres to only 5.15 m above the waterlevel. Other hydraulic equipment includes the Heila HLM 2-1S knuckleboom crane on the aft deck, which is used to lower the RIB into the water. This crane is mounted on an aluminium box which also houses the engine room ventilation. The bowthruster is also hydraulically driven. It was supplied by Hydrosta, which took care of the entire hydraulic installation onboard.

No handrail

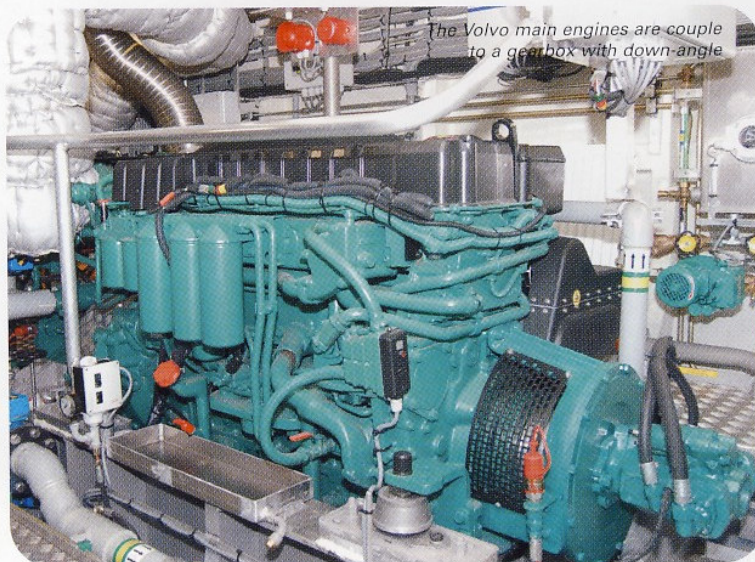
As often seen on pilot boats, handrails around the deck have been omitted for

easy boarding of other vessels. There are however plenty of handrails around the superstructure to hold onto. Access to the engine room is through a hatch just aft of the deckhouse.

The engine room is ventilated at 5000 cu.m/h. The piping systems onboard were installed by Mostert Piping. The insulation of engine room and accommodation was done by Franssen isolatie. The fixed fire extinguishing system is with a Novec system.

Navcom

Navigation and communication equipment were supplied by Alphasat. The outfit includes a JRC JMA-609-7 river radar, an AlphaCourse MF compass, an



The Volvo main engines are coupled to a gearbox with down-angle

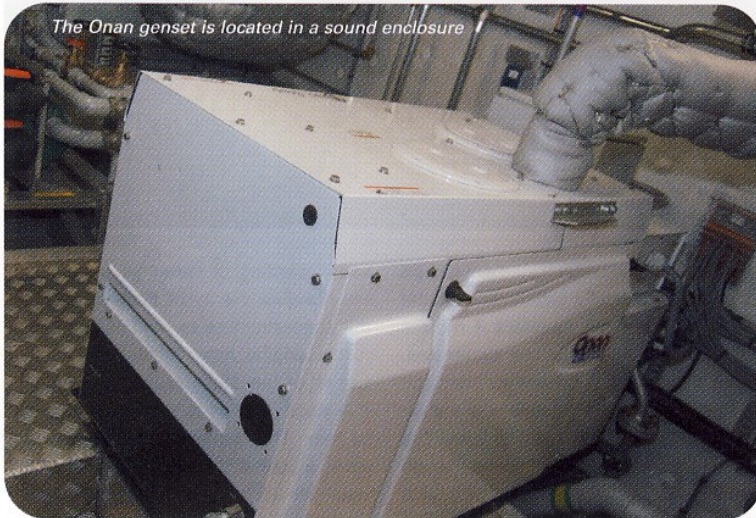


The hydraulic tank and powerpack, delivered by Hydrosta

AlphaPilot MF autopilot and an AlphaDepth MF echo sounding device. The searchlight is located in the mast and can be remote controlled from the wheelhouse.

Stan Patrol

The P99 will be stationed near its birthplace in Gorinchem. The Stan Patrol series from Damen has proven successful worldwide. The boat exists in both a military version and a law enforcement version, such as the P99. During the last SMM trade fair in Hamburg, the German police of Niedersachsen ordered a set of 3 Stan Patrols 2005 for delivery in 2009, 2010 and 2011.



The Onan genset is located in a sound enclosure

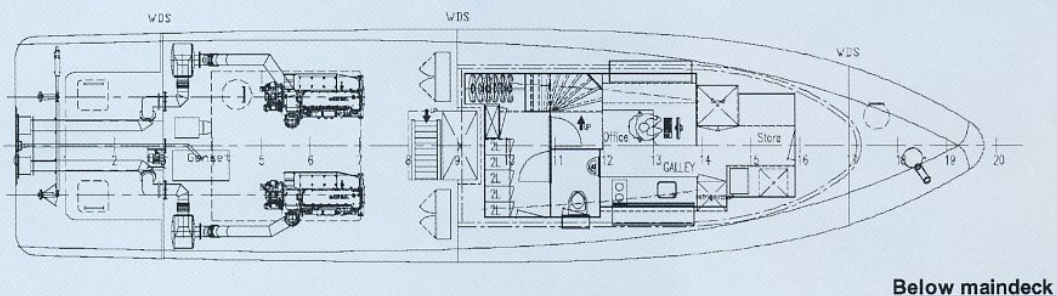
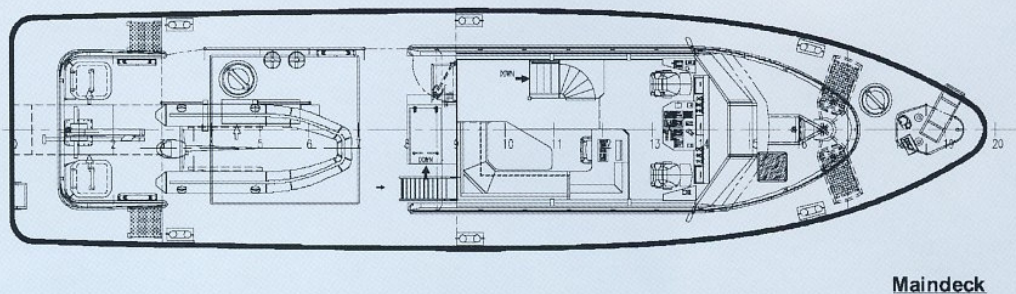
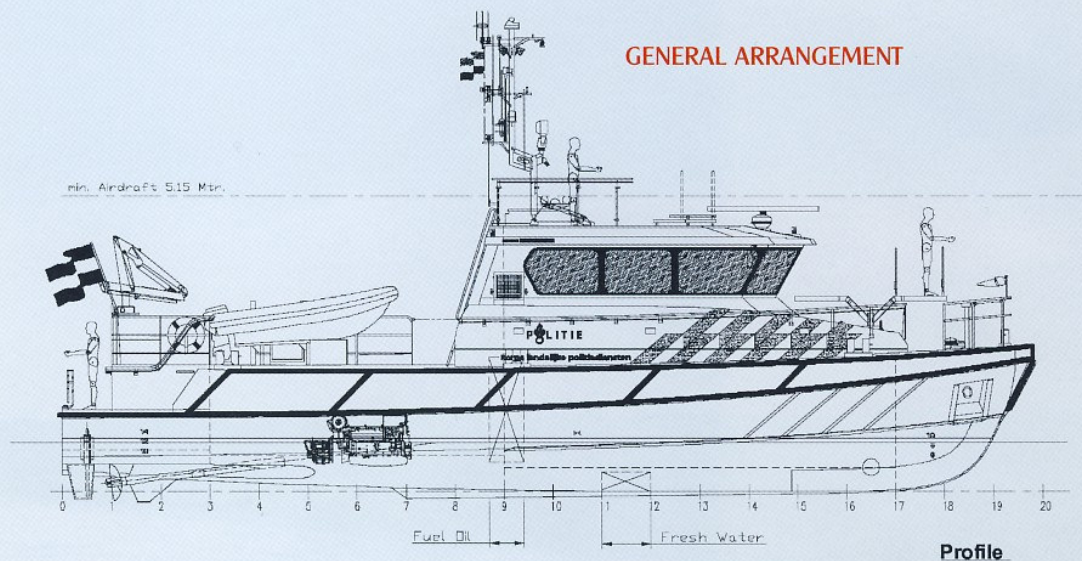
Subcontractors and suppliers of equipment fitted on board the 'P99' (partial list)

ADS van STIGT, Gorinchem	.....	ZF reduction gear
Ajax Fire Protection Systems, Amsterdam	.....	Novec engine room firefighting system
Alphatron Marine, Rotterdam	.....	nautical & communication equipment
Double D Marine Equipment, Waalwijk	.....	Heila crane
Franssen, Isolatiebedrijf, Druten	.....	insulation
Gebhard Elecro, Oosterhout	.....	electrical installation
Hydrosta, Zwartsluis	.....	hydraulic installation; bowthruster
Mostert Pijpleidingen, Papendrecht	.....	pipings
Noorloos Casco Bouw, Van, Werkendam	.....	casco
SIM Holland, Papendrecht	Onan generator sets
Volvo Penta Europe, Beesd	main engines



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