

Stan Patrol Series

PATROL VESSELS TO MEET EVERY NEED

DAMEN

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DAMEN

Your partner in patrol capability

The success of the Damen Shipyards Group is built on the satisfaction of its clients. Exceeding your expectations is our top priority.

Our philosophy of standardised shipbuilding helps us to reach this goal, via efficient production. However, in order to meet individual requirements, our standardised platforms are designed to be tailor made to exactly meet clients' requirements. You can count on our experience in the delivery of naval vessels, OPVs, patrol vessels and security vessels. In addition to this, we also apply our knowledge from across the maritime industries to develop the ultimate patrol vessels.

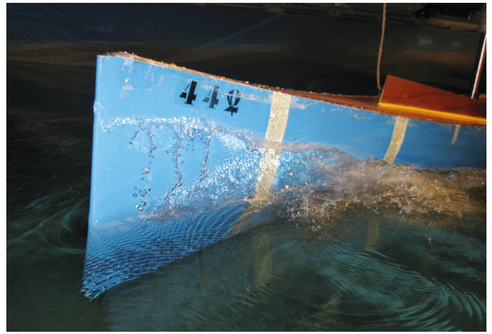
Following the vessel's delivery, Damen continues to support you via ourService Department. We can provide training for your crew, helping to familiarise them with the vessel, and maintain your vessel in optimal condition, including spare parts delivery.


POLITIA DE FRONTIERA
GARDA DE COASTA
MAI 1107


GIARDIA di FINANZA


P84
P85





Superior seakeeping

The Sea Axe hull shape guarantees the best seakeeping performance for high speed vessels. This hull shape is based on the result of five years of research by Delft University of Technology, the US Coast Guard, the Royal Netherlands Navy, the Maritime Research Institute Netherlands (MARIN) and Damen. The result is a relatively light, long and slender design with a very fine entry. The bow is also free from flare and has an extremely deep-V. Together these elements contribute to substantially improved seakeeping characteristics.

Applied to more than 300 Damen vessels, the slender hull and axe shaped bow are now proven concepts for all kinds of operational areas.

Unrivalled operability



The superior seakeeping characteristics result in the highest possible level of operability. This design optimises the onboard working conditions and reduces crew fatigue.

Patrol vessels often operate in higher sea states and in these conditions the Sea Axe excels. Even at sustained maximum speed, the slender Sea Axe hull shape will cut through the waves easily without detriment to the crew or the vessel.



Highly fuel efficient

The hull shape offers exceptionally low resistance, not only in calm waters, but also in high sea states, delivering fuel efficiency at all speeds. Where a conventional vessel will experience significant loss of speed in rough seas, the Sea Axe will effortlessly cut through the waves.

To capitalise on these benefits, Damen invests significantly in R&D, to ensure that its Patrol vessels have the most efficient propellers, engines and propulsion systems. The combination of excellent hull shape and optimised propulsion plant guarantees a low fuel consumption over the entire speed range.

Research and development



All Damen patrol vessels benefit from our unrivalled knowledge base gathered over years of ongoing research programmes within the Damen Group. Damen also works alongside world–renowned research institutes such as Delft University of Technology and MARIN as well as other reputable universities, institutes and companies.

Feedback from numerous customers operating all over the world ensures the continual optimisation of our vessel designs. Additionally, Damen works closely with subcontractors and suppliers to maintain its product portfolio for the ever-changing demands of the industry.







Reliable and versatile platforms

Having patrolled the seas for decades, the Damen Stan Patrol designs are based on vast experience and customer feedback.

Recently, maritime security concerns have become even more considerable. Refugees looking for safety overseas together with increasing levels of piracy, terrorism and smuggling activities, are putting pressure on coast and border guards around the globe. This ever-changing world requires vessels with multi-mission versatility.

Reliability is key in ensuring mission success. Damen understands this, as can be seen by the international coverage of our supplier base and service organisation, distributed across five continents to ensure you of maximum vessel uptime.

- Counter-terrorism
- Anti-drug operations
- EEZ protection
- Search and Rescue
- Anti-piracy
- Oil spill recovery
- Fishery inspection
- Human trafficking prevention
- Humanitarian aid & disaster relief
- Naval tasks



Connecting the world

An integrated approach, well suited to regularly changing demands, can be found in the Damen Patrol Bridge design.

Fitted with the latest technologies and offering 360º situational awareness, the Damen Patrol Bridge is the operational heart of the vessel. Short lines of communication result from combined navigation and surveillance facilities within a single compartment. This efficient layout substantially reduces the demands on the crew.

The unique, extra large navigation displays provide excellent situational awareness, while dedicated positions are available for surveillance, planning, command and gun control.

The integration of external assets, such as RHIBs and UAVs, extend the operational coverage of the Command and Control team. Using reliable voice and data systems for real-time coordination with headquarters and other units further expands these capabilities.



QUALITY IS IN THE DETAIL

The best working environment for your crew

Damen Stan Patrol vessels, part of the standardised Damen product portfolio, exemplify the benefits of series production. Amongst these are speed of delivery, use of proven technology, ease of maintenance and a reduced cost of ownership.

Damen's standard vessels are subject to ongoing improvement in combination with a unique process of research and development.

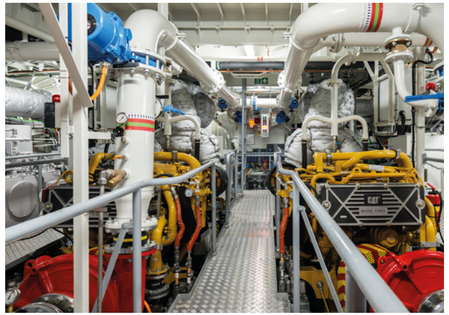
The production of vessels in series means that research is conducted not as a one off event, but in an ongoing, continual fashion through generations of vessel production, ensuring consistent improvement in quality, performance and safety.

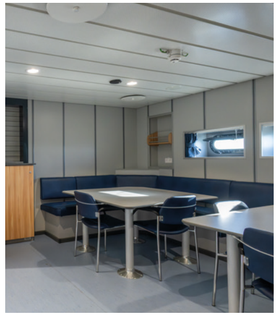
In this vessel design, the Sea Axe hull shape is combined with an optimised lay-out, featuring well-located operational compartments and low noise levels, resulting in maximum crew comfort.













Damen patrol vessels range from 10 to 70 metres. As a result they offer a fitting solution for every operational profile, spanning riverine, littoral, coastal, inshore and offshore.

This versatility, combined with the benefits of standardised production, ensure that the Damen Stan Patrol series is ready for anything, anywhere, at any time.

Ready when you are



PATROL VESSEL



SPa 1605 FRP | SPa 1905 | SPa 2205 FRP | SPa 3007 | SPa 4207 | SPa 5009 | SPa 5509 | SPa 6211 | SPa 6711

- Inshore surveillance
- Coastal surveillance
- EEZ protection
- Naval tasks

VSX PATROL



VSX 3307 Patrol | VSX 4208 Patrol | VSX 5209 Patrol

- Transport of supplies
- Humanitarian aid
- Disaster relief





STAN PATROL SERIES

Unique flexible capabilities



Damen Stan Patrol vessels are designed to be flexible across a wide range of operational capabilities.

The aft deck can be configured to meet multiple mission requirements. Containers can be mounted to function as control space, decompression tanks, or simply as storage space.

Space can be allocated for the resources necessary to carry out humanitarian relief missions, or for up to three fast boats for inspection, boarding and interception. UAVs can also be launched from the vessels, extending the surveillance range considerably.

The foredeck of each vessel also offers a large amount of space which can be configured to suit differing mission requirements.



STAN PATROL	3007	4207	5009	5509	6211	6711
Length	30.5 m	42.8 m	50.1 m	57.4 m	62.2 m	67.1 m
Beam	7.1 m	7.1 m	9.4 m	9.5 m	11.5 m	11.4 m
Hull	aluminium	steel	steel	steel	steel	steel
Superstructure	aluminium	aluminium	aluminium	aluminium	steel /aluminium	aluminium
Crew	up to 12 crew	up to 18 crew	up to 28 crew	up to 29 crew	up to 48 crew	up to 50 crew
Endurance	7 days | 1,500 nm @ patrol speed	14 days | 2,450 nm @ patrol speed	21 days | 2,900 nm @ patrol speed	21 days | 3,300 nm @ patrol speed	21 days | 5,000 nm @ patrol speed	21 days | 4,500 nm @ patrol speed
Speed	up to 30.0 kn | 2 engines / FPP	up to 26.5 kn | 2 engines / CPP	up to 29.5 kn | 4 engines / FPP	up to 29.0 kn | 2 engines / CPP	up to 30.0 kn | 4 engines / FPP	up to 25.0 kn | 4 engines / FPP
Equipment	1x 6.2 m RHIB in slipway stabilisers / bow thruster	1x 7.5 m RHIB in slipway stabilisers / bow thruster FiFi monitor / deck crane	1x 7.5 m RHIB in slipway stabilisers / bow thruster FiFi monitor / deck crane 2x Interceptor 1102 / davits	1x 7.5 m RHIB in slipway stabilisers / bow thruster FiFi monitor / deck crane 2x Interceptor 1102 / davits	1x 7.5 m RHIB in slipway stabilisers / bow thruster FiFi monitor / deck crane 2x Interceptor 1102 / davits	stabilisers / bow thruster FiFi monitor / deck crane 2x Interceptor 1102 / davits flight deck
Surveillance	navigation radars LWIR camera WAIS RDF	navigation radars MWIR camera WAIS RDF	surveillance radar navigation radar MWIR camera / WAIS RDF / fire control	surveillance radar navigation radar MWIR camera / WAIS RDF / fire control	(air)surveillance radar navigation radar / WAIS fire control / CMS electronic surveillance	(air)surveillance radar navigation radar / WAIS fire control / CMS electronic surveillance
Armament	20 mm RWS 2x HMG/LMG	20 mm - 30 mm gun 2x RWS 12.7 mm 4x HMG/LMG	20 mm - 40 mm gun 2x RWS 12.7 mm 4x HMG/LMG	20 mm - 40 mm gun 2x RWS 12.7 mm 4x HMG/LMG	forward gun up to 76 mm 2x RWS 12.7 mm 4x HMG/LMG	forward gun up to 76 mm side guns up to 30 mm missile launcher decoy launcher





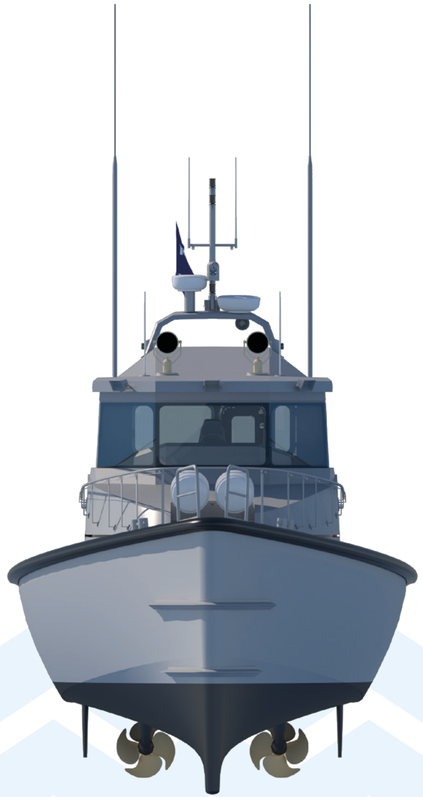

FISHERIES PROTECTION




COAST GUARD


POMPIERII-SMURD 112
RESCUE ZONE


P1572



COMPACT CLASS

Fast action in all weathers



The Compact Class of the Damen Stan Patrol series has unique features which make the vessels the ideal asset for inshore and littoral operations.

The vessels are designed for all weather, high speed activities, employing the Sea Axe bow to reduce ship motions and ensure that the vessels' speed range can be achieved both comfortably and safely in all conditions.
The designs also incorporate a wheelhouse with 360° visibility to ensure that fast operations are also safe operations.

The Compact Class is a modular design and can therefore easily adapted to satisfy special requirements, such as single point lifting, troop transport, larger work decks and diving capabilities.

The Compact Class Stan Patrol Vessels are built in composite materials.
By using the latest technology and high grade materials, this construction is superior to aluminium or steel. For the same strength and impact resistance, less weight is needed. This results in higher speeds and better economy.
Also the chemical resistance of composites and its ease of repair makes it a first-class construction material.







STAN PATROL	1605 FRP	1905	2205 FRP
Length	15.7 m	19.2 m	22.7 m
Beam	4.8 m	4.8 m	6.1 m
Hull	FRP	aluminium	FRP
Superstructure	FRP	FRP	FRP
Crew	up to 2 crew / up to 6 patrol personnel	up to 2 crew / up to 6 patrol personnel	up to 8 crew
Endurance	2 days / 250 nm @ patrol speed	3 days / 400 nm @ patrol speed	4 days / 900 nm @ patrol speed
Speed	up to 33.0 kn / 2 engines / waterjets	up to 30.0 kn / 2 engines / waterjets	up to 30.0 kn / 2 engines / FPP
Equipment	air conditioning	air conditioning	air conditioning / 1x 4.2 m RHIB in slipway
Surveillance	navigation radar / LWIR camera / AIS	navigation radar / LWIR camera / AIS	navigation radar / LWIR camera / AIS
Armament	2x HMG/LMG	2x HMG/LMG	2x HMG/LMG
















DAMEN



INTERCEPTOR SERIES

When speed is of the essence



The ultimate interceptor. Combines ultra-high speed with unsurpassed seakeeping, high crew comfort and extreme maneuverability to enable the crew to execute their missions.

All Damen interceptors are a specialised type of craft, designed for ultra-high speed interception and insertion missions, while being capable and effective in a medium speed patrolling role. With a robust design and reliable equipment, Damen ensures that the boats can fulfill their missions successfully and cost-effectively.
All interceptors can be fitted with a secure communication suite to exchange messages and data with other units, amplifying mission effectiveness.
When carried as support craft on a Stan Patrol vessel, the interceptors act as the forward deployment tool for high speed interception, boarding, and shallow water patrolling.






INTERCEPTOR	1102	1503 OPEN	1503 CLOSED	3007
Length	11.0 m	14.58 m	14.5 m	32.7 m
Beam	2.5 m	3.5 m	3.5 m	7.1 m
Structure	FRP	FRP	FRP	aluminium
Crew	2 crew / 4 embarked forces	2 crew / 6 embarked forces	2 crew / 6 embarked forces	up to 8 crew / 4 embarked forces
Endurance	1 day / 200 nm @ top speed	1 day / 200 nm @ top speed	1 day / 200 nm @ top speed	4 days / 475 nm @ top speed
Speed	55+ kn	up to 55.0 kn	up to 53.0 kn	up to 45.0 kn
Equipment	shock-absorbing seats single-point lifting hook	shock-absorbing seats	shock-absorbing seats air conditioning	air conditioning 4.2 m RHIB in slipway
Surveillance	navigation radar / LWIR camera / AIS	navigation radar / LWIR camera / AIS	navigation radar / LWIR camera / AIS	navigation radar / LWIR camera / AIS
Armament	1x HMG/LMG	1x HMG/LMG	1x HMG/LMG	forward gun up to 30 mm 2x HMG/LMG

















CUSTOMS



VSX PATROL SERIES

Multi-mission versatility



Originally designed for the offshore industries, the Damen Versatile Sea Axe vessels offer exceptional performance, cost-efficiency, flexibility, comfort and safety at sea.

The large aft deck of the design ensures true multi-mission capability. In combination with standardised, modular options, the vessels can be easily and quickly adapted for a range of activities including crew transportation, special operations support, combined patrol and disaster relief.







VSX	3307 PATROL	4208 PATROL	5209 PATROL
Length	34.2 m	43.2 m	53.2 m
Beam	7.3 m	8.4 m	9.8 m
Hull	aluminium	aluminium	steel
Superstructure	aluminium	aluminium	aluminium
Crew	up to 6 crew / up to 14 patrol personnel	up to 12 crew / up to 20 patrol personnel	up to 8 crew / up to 16 patrol personnel
Endurance	14 days / 5,500 nm @ patrol speed	21 days / 7,000 nm @ patrol speed	21 days / 7,000 nm @ patrol speed
Speed	up to 30.0 kn / 3 engines / FPP	up to 27.0 kn / 3 engines / FPP	up to 27.0 kn / 4 engines / FPP
Equipment	75 m² cargo deck for e.g. 6.5 m RHIB containers / pallets / crane	115 m² cargo deck for e.g. RHIB containers / pallets / crane / FiFi 1/2	240 m² cargo deck for e.g. Interceptors 1102 containers / pallets / crane / FiFi 1 / stabilisers
Surveillance	navigation radar / LWIR camera / W-AIS	navigation radar / LWIR camera / W-AIS	navigation radar / LWIR camera / W-AIS
Armament	20 mm gun | 2x HMG/LMG	20 mm gun | 2x HMG/LMG	30 mm gun | 2x HMG/LMG








GUARDIAN 14


P22






POLIȚIA DE FRONTIERĂ
GARDA DE COASTĂ


RSS BARRACUDA
P501



DAMEN DIGITAL SOLUTIONS

Damen Triton Platform

In this age of connectivity we have developed Damen Triton. With Triton, Damen builds a digital twin of the vessel. These twins contain all the elements that the real ship consists of and is connected to its sensors.

Operators can log in remotely to their vessel and see, in real time, where it is operating along with the particulars of its performance and condition. We offer the Damen Triton service to owners and operators of Damen and non-Damen vessels alike.

DAMEN TRITON

THINK GLOBAL, ACT LOCAL

Damen Technical Cooperation



Damen can assist customers in building Damen vessels locally via Damen Technical Cooperation (DTC).

This highly flexible option results in a valuable transfer of technology and enables owners to enjoy Damen quality combined with the convenience of local production.

Since DTC was established, over 1,000 vessels have been produced locally in more than 70 countries worldwide. Damen can deliver everything from the licence and vessel design to a full material package and if necessary, turnkey solutions based on client requirements. DTC's scope covers the entire Damen portfolio.

Design & Licences
- Basic and/or detailed designs provided
- License/royalty for multiple series
- Proven design

Material packages
- Renowned suppliers
- Materials on stock
- Advanced logistics

Building assistance
- Assistance on-site
- Enhance shipyard skills
- Transfer of knowledge/technology

LIFECYCLE SUPPORT

Damen Services

24/7 SUPPORT

Damen Services cares for your fleet with a wide-ranging portfolio of customer support and after-sales services covering a vessel's complete lifecycle.

Where you need us, when you need us; we support you from deployment to decommissioning. Our diverse service options help you achieve your up-time and reliability goals whilst ensuring low lifecycle costs. Our global service network and availability guarantee a swift response.



START-UP
GETTING YOU GOING

Ship Delivery
Through our worldwide service support network and knowledge of transport contracts, we offer comprehensive logistics to handle own-keel, heavy-lift, towage, and semi-submersible transport deliveries.

Warranty Support
Our philosophy of building long-term relationships with our clients extends to providing excellent warranty support. During the warranty period, we regularly visit our clients to ensure satisfaction with our products. In the event of a problem arising, we are well-placed to solve it swiftly.

Technical Documentation
Our professional and experienced in-house team provides all the technical documentation you need for safe, smooth and efficient operation that maximises the life of your vessel.

DEPLOYMENT
KEEPING YOU GOING

Fleet Support
Our fleet support solutions make sure you can concentrate on your core business. We help you in achieving a reliable performance through offering remote support, the use of technological developments and total lifecycle support.

Training
Our training programmes help to ensure your employees are skilled, motivated, and committed. This approach helps you to reach the all-important goals of reduced operational costs and improved vessel uptime.

Integrated Logistics Support
Integrated Logistics Support (ILS) helps you to improve availability and maintainability of your fleet and assets.

Technical Assistance
Damen Services delivers the technical assistance to ensure optimal performance throughout the entire lifecycle of your vessel. Our specialities cover problem solving, short, well organised docking periods and high quality maintenance and repair.

Parts & Equipment
Damen Parts Services offers competitive prices and efficient deliveries. Over the years we have built up strong purchasing power and a considerable supplier network. Thanks to our network of global Service Hubs, we can guarantee short response times.

Repair & Conversion
Our established global sales network provides you with dedicated repair and conversion contacts to assist, whatever your requirements may be.

Services Portal
The Damen Services Portal is an online platform that makes it easy for everybody involved in operating, maintaining and managing vessels to stay on top of their job.

DAMEN SHIPYARDS GROUP

A broad scope of solutions

General Summary
Damen Shipyards Group operates over 35 newbuild and repair yards, plus Service Hubs, sales offices and marine components facilities, employing 12,500 people worldwide. Damen has delivered over 7000 vessels in more than 100 countries and builds some 175 vessels annually. Due to its unique, standardised ship-design concept, Damen can guarantee consistent quality.

How we build
Damen's focus on standardisation, modular construction and keeping vessels in stock leads to short delivery times, low total cost of ownership, high resale values and reliable performance. Furthermore, Damen vessels are based on thorough R&D and proven technology.

Products and services
Damen offers a wide range of products including tugs, workboats, naval and patrol vessels, high speed craft, cargo vessels, dredgers, vessels for the offshore industry, ferries, pontoons, and superyachts.

For nearly all vessel types, Damen offers a broad range of services, including maintenance, spare parts delivery, training, and the transfer of (shipbuilding) know-how. Damen also offers a variety of marine components such as nozzles, rudders, winches, anchors, anchor chains and steel works.

Damen Shiprepair
Damen Shiprepair has a worldwide network of fourteen repair and conversion yards of which ten are located in North West Europe. Damen Shiprepair has more than 40 floating (and covered) drydocks, including the longest at 420 x 80 metres, and the widest at 405 x 90 metres, as well as slopes, ship lifts and indoor halls. Projects range from the smallest simple repairs through to class compliance, maintenance, complex refits and the complete conversion of large offshore structures. Damen Shiprepair completes around 1,500 repair and maintenance jobs annually, both at yards, as well as in ports and during voyages executed by our dedicated Harbour & Voyage team.











MORE THAN 1000 PATROL VESSELS DELIVERED TO POLICE FORCES, COAST GUARDS AND NAVIES







Colophon

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