The Damen Shipyards Group builds its success on the satisfaction of its clients. Exceeding their 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 tailored 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 vessel.
Following vessel delivery, Damen continues to support you via our Service 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.
HEADING FORWARD

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. As a result, a relatively light, long and slender design with a very fine entry is obtained, with a bow free from flare and with an extremely deep-V – all focused on improving seakeeping characteristics.

Applied to more than 150 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.

With sustained maximum speed, the slender Sea Axe hull form will cut through the waves easily without detriment to the crew or the vessel.

HIGHLY FUEL EFFICIENT
The hull form offers exceptionally low resistance, not only in calm waters, but also in high sea states, delivering fuel efficiency at all speed. Where a conventional vessel loses significant speeds in rough seas, the Sea Axe cuts effortlessly through the waves.

To capitalise optimally on these benefits, Damen invests significantly in R&D, ensuring the most efficient selection of propellers, engines and propulsion. The combination of excellent hull form and propulsion plant guarantees a low fuel consumption over the entire speed range.
RESEARCH AND DEVELOPMENT.
The Damen patrol vessels benefit from a broad knowledge gathered during ongoing research programmes within the Damen Group. Damen 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 the vessel design. Additionally, Damen works closely with subcontractors and suppliers to maintain its product portfolio for the ever-changing demands of the industry.
A RELIABLE AND VERSATILE PLATFORM

Already patrolling 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, with refugees looking for safety overseas. At the same time, increasing levels of piracy, terrorism and smuggling activities are putting pressure on coast and border guards. 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, globally spread 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
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 360° 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 reduces crew demand substantially.

The unique, extra large navigation displays provide excellent overview, 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 exchange with headquarters and other units expands these capabilities.
QUALITY IS IN THE DETAIL
THE BEST WORKING ENVIRONMENT FOR YOUR CREW

Damen Stan Patrol vessels, as part of the standardised Damen product portfolio, carries with them 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 form 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 are ready for anything, anywhere, at any time.
Damen Stan Patrol vessels are designed for a flexible range of operational capabilities.

The aft deck can be configured to meet multiple mission requirements: containers function as control space, decompression tank, or simply as storage space.

Space is provided for materials necessary to carry out humanitarian relief missions, or for up to three fast boats for inspection, boarding and interception. An UAV can also be launched from the vessel, extending the surveillance range considerably.

The front of the vessel also offers a large amount of space which can also be configured to suit differing mission requirements.
<table>
<thead>
<tr>
<th>STAN PATROL SERIES</th>
<th>CREW</th>
<th>ENDURANCE / RANGE</th>
<th>SPEED</th>
<th>EQUIPMENT</th>
<th>Surveillance</th>
<th>ARMAMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stan Patrol 3007</strong></td>
<td>up to 12</td>
<td>7 days</td>
<td>up to 31.5 kts</td>
<td>1x 6.2m RHIB in slipway, stabilisers, bow thruster</td>
<td>Navigation radars, LWIR camera, WAIS, RDF</td>
<td>20mm RWS, 2x HMG/LMG</td>
</tr>
<tr>
<td>Length 30.5 m</td>
<td>Beam 7.1 m</td>
<td>Hull Aluminium</td>
<td>Superstructure Aluminium</td>
<td>FPP</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stan Patrol 3808</strong></td>
<td>up to 18</td>
<td>10 days</td>
<td>up to 30 kts</td>
<td>1x 7.5m RHIB in slipway, stabilisers, bow thruster, deck crane</td>
<td>Navigation radars, MWIR camera, WAIS, RDF</td>
<td>20mm - 30mm gun, 12.7mm Side guns, 4x HMG/LMG</td>
</tr>
<tr>
<td>Length 38.0 m</td>
<td>Beam 8.0 m</td>
<td>Hull Aluminium</td>
<td>Superstructure Aluminium</td>
<td>FPP</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stan Patrol 4207</strong></td>
<td>up to 24</td>
<td>14 days</td>
<td>up to 30 kts</td>
<td>1x 7.5m RHIB in slipway, stabilisers, bow thruster, FiFi monitor, deck crane</td>
<td>Navigation radars, MWIR camera, WAIS, RDF</td>
<td>20mm - 30mm gun, 12.7mm Side guns, 4x HMG/LMG</td>
</tr>
<tr>
<td>Length 42.8 m</td>
<td>Beam 7.1 m</td>
<td>Hull Steel</td>
<td>Superstructure Aluminium</td>
<td>CPP</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stan Patrol 5009</strong></td>
<td>up to 28</td>
<td>21 days</td>
<td>up to 30 kts</td>
<td>1x 7.5m RHIB in slipway, 2x DI 1102 interceptor, davits, stabilisers, bow thrusters, FiFi monitor, deck crane</td>
<td>Surveillance radar, Navigation radar, MWIR camera, WAIS, RDF, Fire control</td>
<td>20mm - 40mm gun, 12.7mm Side guns, 4x HMG/LMG</td>
</tr>
<tr>
<td>Length 50.2 m</td>
<td>Beam 9.3 m</td>
<td>Hull Steel</td>
<td>Superstructure Aluminium</td>
<td>FPP</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stan Patrol 5509</strong></td>
<td>up to 30</td>
<td>21 days</td>
<td>up to 28 kts</td>
<td>1x 7.5m RHIB in slipway, 2x DI 1102 interceptor, stabilisers, bow thrusters, FiFi monitor, deck crane</td>
<td>Surveillance radar, Navigation radar, MWIR camera, WAIS, RDF, Fire control</td>
<td>20mm - 40mm gun, 12.7mm Side guns, 4x HMG/LMG</td>
</tr>
<tr>
<td>Length 55.0 m</td>
<td>Beam 9.5 m</td>
<td>Hull Steel</td>
<td>Superstructure Aluminium</td>
<td>CPP</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stan Patrol 6011</strong></td>
<td>up to 40</td>
<td>21 days</td>
<td>up to 26 kts</td>
<td>2x DI 1102 interceptor, RHIB, stabilisers, bow thrusters, FiFi monitor, deck crane</td>
<td>(Air)Surveillance radar, CMS, Fire control, Navigation radar, WAIS, Electronic surveillance</td>
<td>Forward gun up to 76mm, 12.7mm side guns, 4x HMG/LMG</td>
</tr>
<tr>
<td>Length 60.0 m</td>
<td>Beam 11.3 m</td>
<td>Hull Steel</td>
<td>Superstructure Aluminium</td>
<td>FPP</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stan Patrol 6711</strong></td>
<td>up to 50</td>
<td>21 days</td>
<td>up to 25 kts</td>
<td>2x DI 1102 interceptor, stabilisers, bow thrusters, FiFi, monitor, deck crane, flight deck</td>
<td>(Air)Surveillance radar, CMS, Fire control, Navigation radar, WAIS, Electronic surveillance</td>
<td>Forward gun up to 76mm, side guns up to 30mm, Missile launcher, Decoy Launcher</td>
</tr>
<tr>
<td>Length 67.1 m</td>
<td>Beam 11.4 m</td>
<td>Hull Steel</td>
<td>Superstructure Aluminium</td>
<td>FPP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The high speeds offered by Damen Stan Patrol vessels make them the ideal asset for inshore and littoral operations.

The vessels are designed for all weather, high speed activities, employing the Sea Axe to reduce ship motions and ensure that the vessels’ speed range can be achieved both comfortably and safely in all conditions.

The design also incorporates a wheelhouse with 360º visibility to ensure that fast operations are also safe operations.
HIGH SPEED CRAFT

**SPa 1204**
- Length: 12.0 m
- Beam: 4.0 m
- Hull: FRP
- Superstructure: FRP
- Crew: up to 5
- Berths: 2
- Endurance: 1 day
- Range: 200 nm @ patrol speed
- Speed: up to 35 kts
- Equipment: 2 engines, waterjets or sterndrives
- Surveillance: Navigation radar
- Armament: LWIR camera, AIS
- Armament: 2x HMG/LMG

**SPa 1605**
- Length: 16.0 m
- Beam: 5.0 m
- Hull: FRP
- Superstructure: FRP
- Crew: up to 5
- Berths: 2
- Endurance: 2 days
- Range: 250 nm @ patrol speed
- Speed: up to 33 kts
- Equipment: 2 engines, waterjets
- Surveillance: Navigation radar
- Armament: LWIR camera, AIS
- Armament: 2x HMG/LMG

**SPa 2205**
- Length: 22.0 m
- Beam: 5.0 m
- Hull: FRP
- Superstructure: FRP
- Crew: up to 10
- Berths: 4
- Endurance: 4 days
- Range: 500 nm @ patrol speed
- Speed: up to 30 kts
- Equipment: 2 engines, FPP
- Surveillance: Navigation radar
- Armament: LWIR camera, AIS
- Armament: 1x 4m RHIB in slipway
- Armament: 2x HMG/LMG
Originally designed for the offshore industries, the Damen Fast Crew Supply 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 vessel can be easily and quickly adapted for a range of activities, including crew transportation, special operations support, combined patrol and disaster relief.
<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
<th>Beam</th>
<th>Hull Material</th>
<th>Superstructure Material</th>
<th>Crew</th>
<th>Endurance</th>
<th>Range</th>
<th>Speed</th>
<th>Equipment</th>
<th>Surveillance</th>
<th>Armament</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 3307 Security</td>
<td>33.6 m</td>
<td>7.4 m</td>
<td>Aluminium</td>
<td>Aluminium</td>
<td>6 crew, 10 security personnel</td>
<td>14 days</td>
<td>3,000nm @ patrol speed</td>
<td>up to 30 kts</td>
<td>3 engines, FPP</td>
<td>Navigation radars LWIR camera W-AIS</td>
<td>20mm gun 2x HMG</td>
</tr>
<tr>
<td>FCS 4008 Security</td>
<td>41.2 m</td>
<td>8.7 m</td>
<td>Steel</td>
<td>Aluminium</td>
<td>8 crew, 10 security personnel</td>
<td>21 days</td>
<td>3,000nm @ patrol speed</td>
<td>up to 27.5 kts</td>
<td>4 engines, FPP</td>
<td>Navigation radars LWIR camera W-AIS</td>
<td>20mm gun 2x HMG</td>
</tr>
<tr>
<td>FCS 5009 Security</td>
<td>53.2 m</td>
<td>10.1 m</td>
<td>Steel</td>
<td>Aluminium</td>
<td>8 crew, 10 security personnel</td>
<td>21 days</td>
<td>7,000nm @ patrol speed</td>
<td>up to 30 kts</td>
<td>4 engines, FPP</td>
<td>Navigation radars MWIR camera W-AIS</td>
<td>20mm gun 2x HMG</td>
</tr>
</tbody>
</table>
Damen Technical Cooperation enables you to build your Damen vessel locally, anywhere in the world. We provide you with a prefabricated shipbuilding kit and can, on request, combine this with expert assistance, training and backup.

By using standardised components it is possible to make a custom-built design, fulfilling the specific local requirements. This cost-efficient concept can be applied to the full range of Damen vessels for a wide variety of marine operations.

One in five Damen vessels is built on-site through the Damen Technical Cooperation. In addition, clients can take the design-only option and have the vessel built by a shipyard of their choice.
Damen Services offers a wide-ranging portfolio of customer support and after-sales services covering the vessel’s complete lifecycle; through the start-up and deployment phases, to the second life or disposal phase.

We believe that our wide range of products helps our customers achieve their goals in terms of availability, reliability and lifecycle costs. Customers may benefit by using one of our services or a strategic combination of several products.

**COMPLETE LIFECYCLE SUPPORT**

![Diagram of complete lifecycle support process]

**MAINTENANCE MANAGEMENT SOLUTIONS**

Experience and knowledge anchored in one database. Maintenance Management Solutions assist our customers in performing preventive maintenance. Developed by Damen Services, the goal is to maximise vessel uptime and minimise operational costs.
HEALTH & SAFETY

Damen is committed to continuously improving the health, safety and welfare of all people working under Damen Shipyard Group’s sphere of influence. Damen is establishing a safety culture that includes the management and internal and external colleagues working together to jointly ensure the safety of all. Employees are encouraged to identify improvement and corrective opportunities and participate in maintaining a safe working environment. And, using our Supplier Code of Conduct, we advocate best practices at our building locations. At Damen we strive to create an incident-free workplace, everywhere we operate, at all times.

ENVIRONMENT

Damen is committed to ensuring continuous improvement of our products and production methods with the objective of reducing our environmental impact. Being aware of the impact potential our products have on the environment, Damen is duly focused on optimising its designs, and constantly working on environmentally relevant product innovations. In addition, we have taken progressive actions to reduce the environmental impacts of our facilities and bring awareness to our employees in relation to everyday activities.

QUALITY

Quality of our products and services is of paramount importance for the Damen Shipyards Group. Our quality policy is focused on control of our activities as a result of which maximum quality, productivity, flexibility and cost reductions are achieved. Realising that our customers have to outperform in their operations, Damen is committed to continuously improving its products and services, to meet customers’ needs. Damen therefore invests in product, process and organisational development and, together with all our employees, we are aiming to constantly improve our sustained performance.
DAMEN SHIPYARDS GROUP

Damen Shipyards Group operates 32 yards on 5 continents, employing over 9,000 people worldwide. Damen has delivered more than 6,000 vessels in more than 100 countries and delivers approx. 180 vessels annually to customers worldwide. Based on its unique, standardised ship-design concept, Damen is able to guarantee consistent quality.

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

Damen offers a wide range of products, including: tugs, workboats, naval and patrol vessels, fast crew suppliers, pilot boats, life boats, tenders, cargo vessels, dredgers, vessels for the offshore industry, ferries, pontoons and superyachts.

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

In addition to ship design and shipbuilding, Damen Shiprepair & Conversion (DS&C) offers a network of 15 repair & conversion yards worldwide, with 40 drydocks ranging up to 420 x 80 metres. Conversion projects range from adapting vessels to today’s requirements and regulations, to the complete conversion of large offshore structures. DS&C handles 1,500 repair and maintenance jobs annually.

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

COLOPHON

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