Following the vessel’s 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.
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.

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.

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 speed. Where a conventional vessel loses significant speeds in rough seas, the Sea Axe effortlessly-cut 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 shape and propulsion plant guarantees a low fuel consumption over the entire speed range.

UNRIVALLED OPERABILITY

The superior seakeeping characteristics result in the highest possible level of operability. This design optimise 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 shape will cut through the waves easily without detriment to the crew or the vessel.

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. The 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 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 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, 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 continuous improvements 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 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. A 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.
| Model          | 48.8 m | 30.5 m | 7.1 m | aluminium | aluminium | up to 12  | up to 10 | up to 10 | 3.5 m | 11.5 m | up to 48  | up to 25  | up to 20 | up to 30  | 11.4 m | 11.5 m | up to 50  | up to 40  | 1.5 m | 11.0 m | up to 40  | up to 25  | up to 20 | up to 30  | 1.5 m | 11.0 m | up to 40  | up to 25  | up to 20 | up to 30  |
|----------------|--------|--------|-------|-----------|-----------|-----------|----------|----------|-------|--------|-----------|-----------|----------|-----------|-------|--------|-----------|-----------|-------|----------|-------|--------|-----------|-----------|----------|-----------|-------|--------|-----------|-----------|----------|-----------|
| Stan Patrol 3007 | 30.5 m | 7.1 m  | 8.0 m | aluminium | aluminium | up to 12  | up to 10 | up to 10 | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m |
| Stan Patrol 3808 | 38.0 m | 7.1 m  | 8.0 m | aluminium | aluminium | up to 30  | up to 20 | up to 20 | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m |
| Stan Patrol 4207 | 42.8 m | 7.1 m  | 8.0 m | aluminium | aluminium | up to 30  | up to 20 | up to 20 | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m |
| Stan Patrol 5009 | 50.1 m | 7.1 m  | 8.0 m | aluminium | aluminium | up to 30  | up to 20 | up to 20 | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m |
| Stan Patrol 5509 | 57.4 m | 7.1 m  | 8.0 m | aluminium | aluminium | up to 30  | up to 20 | up to 20 | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m |
| Stan Patrol 6211 | 62.2 m | 7.1 m  | 8.0 m | aluminium | aluminium | up to 30  | up to 20 | up to 20 | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m |
| Stan Patrol 6711 | 67.1 m | 7.1 m  | 8.0 m | aluminium | aluminium | up to 30  | up to 20 | up to 20 | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m | up to 30  | 2.4 m |

**Equipment**

- Navigation radars
- LWIR camera
- WAIS
- RDF

**Survival**

- Navigation radar
- WAIS
- RDF

**Fire Control**

- Surveillance radar
- Navigation radar
- WAIS
- RDF

- Rear gun up to 76 mm
- Side guns up to 30 mm
- Missile launcher
- Decoy launcher
The vessels are designed for all weather, high-speed activities, employing the Sea Axe bow to reduce ship motions and ensure that the compact 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 adopt special requirements, such as single point lifting, troop transport, large work deck and diving equipment.

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

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, which results in higher speed and more economical use. Also the chemical resistance of composites and its ease of repair makes it a first-class construction material.

The Compact Class Stan Patrol Vessels are used in various applications, such as patrolling, coast guard, fishery protection, offshore support, search and rescue, emergency response, and more.
COMPACT CLASS

Stan Patrol 1204 FRP
- Length: 12.7 m
- Beam: 4.0 m
- Hull: FRP
- Superstructure: FRP
- Crew: up to 2
- Endurance: 1 day
- Speed: 300 nm @ patrol speed
- Equipment: up to 6 patrol personnel
- Armament: 2x HMG/LMG
- Navigation: radar
- Surveillance: LWIR camera
- Navigation: AIS

Stan Patrol 1605 FRP
- Length: 15.7 m
- Beam: 4.8 m
- Hull: FRP
- Superstructure: FRP
- Crew: up to 2
- Endurance: 2 days
- Speed: 350 km @ patrol speed
- Equipment: up to 6 patrol personnel
- Armament: 2x HMG/LMG
- Navigation: radar
- Surveillance: LWIR camera
- Navigation: AIS

Stan Patrol 2205 FRP
- Length: 22.7 m
- Beam: 6.1 m
- Hull: FRP
- Superstructure: FRP
- Crew: up to 8
- Endurance: 4 days
- Speed: 300 km @ patrol speed
- Equipment: up to 8 patrol personnel
- Armament: 1x 4m RHIB in slipway
- Navigation: radar
- Surveillance: LWIR camera
- Navigation: AIS

2x HMG/LMG
Your 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 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 the mission effectiveness.

When carried as a daughter craft on a Stan Patrol vessel, the interceptors act as the forward deployment tool for high speed interception, boarding, and shallow water patrolling.
<table>
<thead>
<tr>
<th>INTERCEPTOR SERIES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Interceptor DI 1102</strong></td>
</tr>
<tr>
<td><strong>LENGTH</strong></td>
</tr>
<tr>
<td><strong>BEAM</strong></td>
</tr>
<tr>
<td><strong>STRUCTURE</strong></td>
</tr>
<tr>
<td><strong>CREW</strong></td>
</tr>
<tr>
<td><strong>ENDURANCE</strong></td>
</tr>
<tr>
<td><strong>SPEED</strong></td>
</tr>
<tr>
<td><strong>EQUIPMENT</strong></td>
</tr>
<tr>
<td><strong>SURVEILLANCE</strong></td>
</tr>
<tr>
<td><strong>ARMAMENT</strong></td>
</tr>
</tbody>
</table>

**Interceptor DI 1102**
- **Beam**: 2.5 m
- **Measurement**: 11.0 m
- **Structure**: FRP
- **Crew**: 2 crew, 4 embarked forces
- **Endurance**: 1 day (24 nm)
- **Speed**: 55+ kn
- **Equipment**: Shock-absorbing seats, single-point RHIB

**Interceptor DI 1503 open**
- **Beam**: 3.5 m
- **Measurement**: 14.5 m
- **Structure**: FRP
- **Crew**: 2 crew, 6 embarked forces
- **Endurance**: 1 day (25 nm)
- **Speed**: up to 55.0 kn
- **Equipment**: Shock-absorbing seats, navigation radar, LWIR camera, AIS

**Interceptor DI 1503 closed**
- **Beam**: 3.5 m
- **Measurement**: 14.5 m
- **Structure**: FRP
- **Crew**: 2 crew, 6 embarked forces
- **Endurance**: 1 day (20 nm)
- **Speed**: up to 53.0 kn
- **Equipment**: Shock-absorbing seats, navigation radar, LWIR camera, AIS, air conditioning

**Interceptor DI 3007**
- **Beam**: 7.1 m
- **Measurement**: 32.0 m
- **Structure**: FRP or aluminium
- **Crew**: 8 crew, 4 embarked forces
- **Endurance**: 5 days
- **Speed**: up to 53.0 kn
- **Equipment**: Shock-absorbing seats, air conditioning, navigation radar, LWIR camera, AIS, forward gun up to 30 mm
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, naval patrol and disaster relief.
### FAST CREW SUPPLIER PATROL SERIES

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LENGTH</th>
<th>BEAM</th>
<th>HULL</th>
<th>SUPERSTRUCTURE</th>
<th>CREW</th>
<th>ENDURANCE</th>
<th>SPEED</th>
<th>EQUIPMENT</th>
<th>SURVEILLANCE</th>
<th>ARMAMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCS 3307 Patrol</td>
<td>34.2 m</td>
<td>7.3 m</td>
<td>aluminium</td>
<td>aluminium</td>
<td>up to 6 crew</td>
<td>14 days</td>
<td>up to 30.0 kn</td>
<td>3 engines</td>
<td>FPP</td>
<td>navigation radars</td>
</tr>
<tr>
<td>FCS 4008 Patrol</td>
<td>41.2 m</td>
<td>8.7 m</td>
<td>steel</td>
<td>aluminium</td>
<td>up to 6 crew</td>
<td>21 days</td>
<td>up to 30.0 kn</td>
<td>4 engines</td>
<td>FPP</td>
<td>140 m² cargo deck for e.g. 7.5 m RHIB</td>
</tr>
<tr>
<td>FCS 4208 Patrol</td>
<td>43.2 m</td>
<td>8.4 m</td>
<td>aluminium</td>
<td>aluminium</td>
<td>up to 12 crew</td>
<td>21 days</td>
<td>up to 30.0 kn</td>
<td>3 engines</td>
<td>FPP</td>
<td>115 m² cargo deck for e.g. containers</td>
</tr>
<tr>
<td>FCS 5009 Patrol</td>
<td>53.2 m</td>
<td>10.1 m</td>
<td>steel</td>
<td>aluminium</td>
<td>up to 8 crew</td>
<td>21 days</td>
<td>up to 27.0 kn</td>
<td>4 engines</td>
<td>FPP</td>
<td>240 m² cargo deck for e.g. containers</td>
</tr>
</tbody>
</table>

**FAST CREW SUPPLIER PATROL SERIES**
Damen can assist customers with 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, Damen has built over 1,000 vessels locally in over 70 countries.

Damen can deliver packages ranging from simple licensing to vessel design, full materials supply and, if necessary, turnkey solutions, all tailored to each client’s requirements.

**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

**INTEGRATED LOGISTICS SUPPORT**
- Reliability, availability and maintainability analysis
- Reliability centered maintenance analysis
- Logistic support analysis

**DELIVERY**
- Warranty support
- My Damen
- Commissioning

**GETTING STARTED**
- Damen Services intends to provide added value to a Damen vessel, whether this involves a single intervention or a complete package such as an integrated logistics support or a long-term service agreement.

**COMBINED SERVICES PACKAGE**
- Ship delivery
- Initial spare parts package
- Vessel operating manual
- Training
- Maintenance management solutions

**INTEGRATED LOGISTICS SUPPORT**
- Integrated Logistics Support (ILS) is increasingly applied in the commercial and coastguard sectors today. If requested, Damen can supply a customised ILS program with our newly built products.

**WORLDWIDE SERVICE HUBS**
To fulfill the demands from today’s dynamic shipping world, an understanding of local languages and cultures, Damen Services has established Damen Service Hubs. These Service Hubs are tailored to regional demands to enable quick access to necessary services.

**INNOVATION & DEVELOPMENT**
We respond to the rapidly changing world with the continuous development of new solutions. This includes an expanding focus on digitalisation and sustainability. Examples include remote monitoring, a personal maintenance webportal, 3D parts printing and intelligent asset management.

**KEEPING YOU GOING**
Downtime is becoming more and more expensive. Damen Services’ portfolio enables reduction of downtime, either upfront via taking over the entire maintenance strategy or via quick intervention if a malfunction occurs.

**WARRANTY SUPPORT**
Customer satisfaction is of utmost importance to us. Customers can reach out to a dedicated service team 24 hours a day, seven days a week. As well as having access to Damen via our mobile app, customers are visited by a Damen technician, regardless of whether there is an issue or not.

**LONG-TERM SERVICES AGREEMENT**
Due to the large number and complexity of different systems on board of a vessel, maintenance can be a challenging process. Damen Services is your partner in managing your assets and keeping them in optimal condition.

**GETTING STARTED**
Damen Services is able to tailor its service packages to specific requirements. In this way we ensure our clients can begin their operations as soon as we deliver their vessel on location.

**KEEPING YOU GOING**
Damen Services’ portfolio enables reduction of downtime, either upfront via taking over the entire maintenance strategy or via quick intervention if a malfunction occurs.
Damen Shipyards Group operates 36 shipbuilding and repair yards, employing 12,000 people worldwide. Damen has delivered more than 6,500 vessels in more than 100 countries and delivers some 175 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 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.

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 & Conversion (DSC) has a worldwide network of eighteen repair and conversion yards of which twelve are located in North West Europe. Facilities at the yards include more than 50 floating (and covered) drydocks, including the longest, 420 x 80 metres, and the widest, 405 x 90 metres, as well as slopes, ship lifts and indoor halls. Projects range from the smallest simple repairs through Class’ maintenance to complex refits and the complete conversion of large offshore structures. DSC completes around 1,300 repair and maintenance jobs annually, both at yards as well as in ports and during voyage.

A BROAD SCOPE OF VESSELS

Damen Shipyards Group owns all intellectual property rights (including amongst other things copyright) as used in this brochure – © Damen Shipyards Group 2019. No rights can be derived from the information with regard to dimensions, characteristics or performances of any of the products & services shown. Except with the prior express written permission of Damen Shipyards Group, nothing in this brochure and its content may be distributed and/or commercially exploited.