Damen has a rich tradition of naval shipbuilding reaching back over 140 years. Our defence & security product range is comprehensive, covering everything from seven-metre interceptors to the 205-metre Joint Support Ship (JSS) HNLMS Karel Doorman of the Royal Netherlands Navy. Our solutions are valued by navies, coastguards and maritime law enforcement agencies all over the world.
The maritime industry recognises the increasing need for environmental awareness. With operations close to shore and to sources of food for human consumption, it is imperative that the environmental impact of shipping is minimised.

Damen is investing considerably in the development of sustainable solutions, including ballast water treatment systems, emissions reduction measures and hybrid and full-electric vessel propulsion.

All Damen vessels benefit from thorough R&D and, with research taking place on successive generations of standard vessels, continual product innovation is guaranteed.

Our R&D team is always developing ways to make our vessels safer, more comfortable and more efficient, both economically and environmentally.

Damen is proactive in developing sustainable and cost-effective vessels and services. Damen’s Research & Development department is looking into sustainability issues, both in terms of manufacturing processes and product improvements.

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BENEFITS OF MODULAR BUILDING
■ Fast response to customer requests
■ Competitive pricing
■ Customised building strategies
■ Reliable, proven and tested technology
■ Continual product development
■ Interchangeability of ships, crew, spaces
■ Lower maintenance costs
■ Guaranteed performance
■ Benchmark for the industry

PROVEN TECHNOLOGY, PROVEN QUALITY

Building standard vessels in series gives our clients fast access to proven, reliable technology. Our standard designs can be tailored to individual client needs or modular construction, ensuring you of the vessel you need, whatever challenge you are facing.

Our modular building strategy enables a controlled shipbuilding process for complex naval vessels at our own and local shipyards, simultaneously. Local construction results in significant local content and transfer of technology.

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 anything 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.

CUSTOMER FINANCE
FINANCING AND LEASING

Finance arrangements for commercial security operations
Damen Customer Finance offers a selection of financing options for the purchase and leasing of vessels for commercial security operations, amongst other sectors.

As a major client of the Dutch Export Credit Agency Atradius, Damen has gained a wealth of experience in the arrangement of export loans.

Damen can deliver anything 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.

THINK GLOBAL, ACT LOCAL
DAMEN TECHNICAL COOPERATION

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

Material Packages
Renowned suppliers
Materials in stock
Advanced logistics

Building Assistance
Assistance on-site
Enhance shipyard skills
Transfer of knowledge/technology
To support our customers, Damen Schelde Naval Shipbuilding (DSNS) has developed a wide-ranging Product Lifecycle User Support (PLUS+) portfolio. With this, Damen aims to support its customers in achieving the highest operational availability of their vessels against the lowest, controllable lifecycle costs. The DSNS PLUS+ chain, as graphically presented, contains a one-stop-shop philosophy to support our customers in operating and maintaining their vessels.

**DAMEN PLUS+**

**MAXIMISE FLEET AVAILABILITY, MINIMISE LIFECYCLE COST**

- Improved fleet readiness
- Controlled lifecycle costing
- Effective training solutions
- Expert knowledge of your vessels
- Local technical support
- Worldwide spares availability
- Local refit and modernisation to extend your vessels’ lifetimes
- Support for your maritime infrastructure

New assets with more and more advanced technology, aging of maintenance staff, limited qualified resources and defence budget cuts. These are just some of the challenges facing navies today.
PREPARED FOR ALL MISSIONS
MISSION READY
PROVEN AND RELIABLE

Covering all mission needs, Damen Defence and Security solutions are developed and tailored in partnership with our customers, and with a strong focus on real operational requirements.

Continuously evolving through research, Damen Defence and Security solutions reflect state-of-the-art technology, providing cutting-edge solutions.

- Hybrid propulsion
- Advanced electric generation concepts
- Survivability measures
- Continuous reduction in detectability
- Flexible topsides
- Unmanned vehicles

Mission-ready through proven and reliable systems and hybrid solutions, with a focus on cutting-edge technology.
Over the years, Damen has delivered a number of custom frigates to the Royal Netherlands Navy.

Additionally, for export to navies around the world, Damen supplies a complete range of vessels built according to the Ship Integrated Geometrical Modularity Approach (SIGMA). Although built according to a standardised concept, SIGMA vessels are tailored to the clients’ unique operational requirements and can be equipped for missions ranging from maritime security up to naval warfare and power projection.

- Large Custom-built Combatants
- Sigma Frigates & Corvettes
- CROSSOVER Series
The four Zeven Provincien class Air Defence and Command (LCF) frigates were all build by Damen Schelde Naval Shipbuilding (DSNS) and commissioned between 2002 and 2005.

The ships are optimised for the full spectrum of anti-air warfare operations. The primary sensors for this task are the SMART L and the multifunction radar APAR. A modernisation programme for the four ships is ongoing in 2018. This includes the modification of the sensor suit (Smart L and APAR). These modifications will make it possible to detect and track ballistic missiles at an extended range.

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<tr>
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<td>Thales APAR</td>
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The eight Karel Doorman class frigates were built by Damen Schelde Naval Shipbuilding (DSNS) and commissioned between 1991 and 1995. The class is also known as the Multi-Purpose or M class.

This class was the first introduction to the Royal Netherlands Navy of CODOG propulsion. The M class is able to operate in all the main warfare domains (surface, subsurface and anti-air warfare).

In 2018 only two M class are still operated by the Royal Netherlands Navy. In 2004, two of the original eight, Tjerk Hiddes and Abraham van der Hulst, were sold to Chile followed by two more to Belgium (Karel Doorman and Willem van der Zaan). In 2006 the fifth and sixth (van Nes and van Galen) were sold to Portugal. Between 2011 and 2014 a Mid-Life Update was realised mainly for the combat systems on the two remaining RNLN M class followed by an MLU for the two Belgium M class. In 2018, an MLU for the Portuguese M class frigate will also get underway.

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COMBATANTS

SIGMA

Based on our experience gained building seven generations of frigates, we have developed, and extensively tank tested, a standardised hull form series – SIGMA (ship integrated geometrical modularity approach). Ranging from 50 to 125 metres in length and from 9 to 16 metres in beam, this optimised hull form series covers the whole spectrum of naval combatants, from naval patrol to corvettes and frigates.

The standardised modularity of SIGMA vessels is further enhanced by the combination of commercial and naval standards and technology. This approach enables customers to formulate their own SIGMA designs based on proven solutions.

SIGMA ADVANTAGES

The SIGMA design philosophy has the following advantages:

■ Standardised and proven designs with sufficient flexibility to meet individual customer needs
■ Where possible use of commercial equipment reduces cost of building and maintenance or replacement
■ Easy implementation of modifications or upgrades, avoiding premature obsolescence of the vessel
■ Wide range of combat suites, allowing use of proven product compositions
■ Commonality across different ship types

MISSION PROFILES

The SIGMA platform can be equipped for missions ranging from maritime safety and security to power projection, such as:

■ Law enforcement and police
■ Search and rescue
■ Counter drugs and counter piracy
■ Intelligence, surveillance and reconnaissance
■ Naval presence and embargo operations
■ Naval combat and sea control/denial

NAVAL FEATURES

■ Naval intact and damage stability
■ Enclosed gas-tight citadel and NBC filter installations
■ Shock resistance and protection of vital systems
■ Redundancy in essential services
■ Naval damage control zones
■ Reduced signatures through RCS shaping, noise control, degaussing and IR reduction

A main passageway of the SIGMA on the damage control deck enables unrivaled accessibility between both functional and living spaces. Standards for accommodation are very high and reflect the standards used on Royal Netherlands Navy vessels. The in-depth knowledge of our governmental research institutes, with regards to on board human factors, is reflected in all our designs.

PROVEN DESIGN

PROVEN EXCELLENCE

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**SIGMA MULTI MISSION FRIGATE**

**LENGTH O.A.** 105 – 125 metres

**DISPLACEMENT** 2,365 – 4,200 tonnes

**BEAM MLD** 14 – 16 metres

**DRAUGHT** 3.7 – 4.1 metres

**SPEED** 27 – 30 knots

**SENSORS**
- 3D Surveillance & target indication radar & IFF
- Radar/electro optical fire control
- Hull-mounted sonar and/or VDS
- ESM & ECM
- 3 or 4효격형

**EFFECTORS**
- Main gun
- Small calibre (automatic) gun
- CIWS
- SSM
- SAM VLS
- Torpedo launching system (2x triple)
- ESM & ECM
- 2 or 4효격형

**SIGMA LIGHT FIGATES AND CORVETTES**

**LENGTH O.A.** 91 – 105 metres

**DISPLACEMENT** 1,700 – 2,185 tonnes

**BEAM MLD** 13 m

**DRAUGHT** 3.6 m

**SPEED** 27.5 – 28 knots

**SENSORS**
- 3D Surveillance & target indication radar & IFF
- Helicopter approach radar
- Radar/electro optical fire control
- 3 x target designation system
- ESM & ECM
- 2 x decoy launchers

**EFFECTORS**
- Main gun
- 2 x small calibre gun
- 2 x SSM launcher
- 12 cell SHORADS
- 2 x triple torpedo launcher
- ESM & ECM
- 2 x decoy launchers

**CUSTOMERS**
- Indonesian Navy and Mexican Navy

**BASIC FUNCTIONS**
- Naval patrol EEZ, deterrence, search and rescue, ASW, AAW, ASUW, EW

**SIGMA 10513 (enlarged 9813)**

**CUSTOMERS**
- Moroccan Navy

**BASIC FUNCTIONS**
- Naval patrol EEZ, deterrence, search and rescue, ASW, AAW, ASUW, EW

**SIGMA 9813**

**CUSTOMERS**
- Indonesian Navy

**BASIC FUNCTIONS**
- Naval patrol EEZ, deterrence, search and rescue, ASW, AAW, ASUW, EW
SIGMA includes designs within the lower displacement range (500-1,150 tonnes). These are characterised by a high design speed; reflecting the current needs of navies for fast vessels in this size range. At the same time, it features military standards and survivability measures such as robustness, reduced underwater radiated noise levels and the efficiency of a twin shaft, propeller-driven propulsion system.

The SIGMA is a modern fast attack craft able to act in law enforcement and sovereign water patrol duties and also in high intensity confrontations with military threats.

**SENORS**
- 3D Surveillance & target indication radar & IFF
- Helicopter approach radar
- Medium/long range fire control
- 2 x target designation system
- Full mounted suites

**EFFECTORS**
- Main gun
- 2 x medium/large gun
- 2 x SSM launcher
- 12 cell VLS SHORADS
- ESM & ECM
- 2 x decoys/chaff

**SIGMA FAST COMBATANTS**
- Length O.A. 51 – 80 metres
- Displacement 500 – 1,150 tonnes
- Beam MLD 9 – 11 metres
- Drafthead 3.25 – 3.6 metres
- Speed up to 30+ knots

**OPERATE GLOBALLY**
**BUILD LOCALLY**

**TECHNICAL COOPERATION**
In addition to traditional naval warfare tasks, today’s navies face growing challenges in fields including maritime security and humanitarian aid and disaster relief (HADR). As the number of tasks increases, the numbers of ships remain the same, or even decrease. Fully developed with current and future capability in mind, the Damen CROSSOVER (XO) is the ultimate mission modular naval concept. Pivotal to this innovative solution is the so-called X-Deck – a single, flexible deck to handle, store, operate and deploy mission equipment and fast RHIBs, as well as landing craft.

As the CROSSOVER features multiple modes of access and handling, it is future-proof and ready for the systems of tomorrow.
The vessels in the Damen Patrol range are, generally speaking, designed to operate at the low end of the spectrum of force. These ships are not designed to counter the threats that are traditionally associated with military units and warships, such as torpedoes or guided missiles. Patrolling duties are generally related to:

Maritime assistance operations such as monitoring (maritime traffic, environment and fisheries), assistance (search and rescue, evacuation, humanitarian assistance and disaster relief), and support (deterrence, naval diplomacy, intelligence protection and logistical support).

Maritime security operations such as embargo enforcement, counter piracy, counter terrorism and countering illicit trafficking such as drugs, people and weapons.

| Ocean-Going Patrol Vessels |
| Offshore Patrol Vessels |
| Inshore Patrol/Stan Patrol Vessels |
| Interceptors |
| RHIBs |
The sensors, communication and weapon (self defence) fit is focused on these primary tasks. OPVs normally do not achieve the same maximum speeds as combatants, therefore the helicopter, together with the interceptors, should be viewed as critical weapons systems.

Ocean-Going Patrol Vessels are versatile. In addition to anti-terrorism and anti-piracy operations, these so-called OPVs are also used for anti-narcotics operations. Two fast interceptors can be launched for rapid, over the horizon, deployment and for operations in shallow and coastal waters.

One of the outcomes of the Royal Netherlands Navy’s 2005 Naval Study was that the Dutch surface fleet should be deployed for all tasks at all levels of the spectrum of force. This study however pointed out one important development: the increase of tasks at the lower end of the spectrum of force, particularly maritime security operations and maritime assistance.

This resulted in the Navy purchasing four Holland Class Ocean-Going Patrol Vessels (OPVs). The OPVs provide international coverage with, however, a focused role as the Netherlands’ guard ships in the Caribbean and North Seas.
OFFSHORE PATROL VESSELS

The Damen OPV is specifically developed for navies and coastguards for a wide variety of tasks in regions where there is a low-level security risk. These vessels are optimised to fulfil all duties including military security, military safety and humanitarian tasks. Flexible mission modules and modular manning concepts make anything possible.

Damen Offshore Patrol Vessels (OPVs) have been specifically developed for navies and coastguards for a wide variety of tasks and for regions with a low level of threat. These vessels range from 1,000 to 3,750 tonnes displacement. Operations for which they are ideal include military security (border and EEZ surveillance, anti-piracy and terrorism) and marine safety (SAR, oil pollution detection), as well as humanitarian tasks (disaster relief, logistics operations).
Already patrolling the seas for decades, Damen Stan Patrol designs are based on experience and vast amounts of customer feedback. Recently, maritime security concerns have become even more considerable, especially with large numbers of 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 also key to ensuring mission success. Damen understand this, as can be seen by the coverage of our supplier base and service organisation, globally distributed to ensure you of maximum vessel uptime.

**SUITABLE FOR**
- Counter terrorism
- Anti-drug operations
- EEZ protection
- Search and rescue
- Anti-piracy
- Oil spill recovery
- Fisheries inspection
- Human trafficking prevention

**A RELIABLE AND VERSATILE PLATFORM**

**PATROL AT HIGH SPEED**

**STAN PATROL VESSEL**
- LENGTH O.A. 30 – 70 metres
- BEAM MLD 7.1 – 11.4 metres
- CREW up to 60 persons
- SPEED up to 30 knots

Damen Stan Patrol Vessels range in length from 12 to 70 metres. As a result they offer a fitting solution for every operational profile, spanning riverine, littoral, coastal, inshore and offshore environments. This versatility, combined with the benefits of standardised production, ensure that the Damen Stan Patrol series is ready for anything, anywhere, at any time.

Damen Stan Patrol Vessels are designed for maximum flexibility so as to be capable of handling a wide range of operational capabilities.

The aft deck can be configured to meet multiple mission requirements. Containers can function as decompression tanks, control spaces, or simply as storage. Internal 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 versatile space, which can be configured to suit differing mission requirements.
MULTI MISSION PLATFORM

STAN PATROLS

COMPACT CLASS

SUITABLE FOR
- Counter terrorism
- Anti-smuggling operations
- Search and rescue
- Anti-piracy
- Drug inspection
- Human trafficking prevention

STAN PATROL VESSEL
- LENGTH O.A. 12 – 22 metres
- BEAM MLD 4 – 5 metres
- CREW up to 10 persons
- SPEED up to 35 knots

FCS SECURITY
- LENGTH O.A. 34.2 – 53.2 metres
- POWER RANGE 3,250 – 6,500 bkW
- SPEED 22 – 30 knots
- DECK AREA 75 – 225 m²
- SECURITY CREW 12 – 20 persons

SUITABLE FOR
- Disaster relief
- Asset protection
- Light patrol duties
- Search and rescue
- Medical assistance
- Cargo transport
- Oil spill recovery

The FCS Security Vessels combine the large multi-functional aft deck of a supply vessel with the accommodation layout and functionality of a patrol type vessel. The spacious aft deck supports the transport of disaster relief materials and can be equipped with a large crane or a support vessel on a davit. The integrated container fittings provide possibilities to fasten multi-mission containers for the task in hand. Integration of a fire-fighting system is optional. Sensors, command and control and communication equipment will facilitate the patrol related tasks. Light armoury and ballistic protection supports defence and protection tasks.

The FCS Security Vessels offers you a versatile platform, capable of being tailored to your specific needs.

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 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 design also incorporates 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 pontoon lifting, troop transport, large work deck and diving equipment.

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 the ease of repair makes it a first-class construction material.

The FCS Security Vessels offer a versatile platform, capable of being tailored to your specific needs.
SAFETY
ALWAYS THE TOP PRIORITY

Safety is an important driver of all that we do, and the Damen Defence & Security vessels are no exception. Damen’s solutions for the Defence & Security market are aimed to optimise the safety of operations and crew.

EXAMPLES OF AVAILABLE SAFETY SOLUTIONS

- Hull shape optimised for onboard working conditions and reduced crew fatigue
- Back-up solutions for all critical systems
- Layout and controls based on highest standards

Every day, naval personnel, law enforcement officers and coastguard crews operate Damen vessels on all seven seas. Their job is to keep the maritime environment secure. At the end of the day, it’s that right combination of ship and mission package which leads to success or failure.

SIMPLE. SMART. SWIFT.
YOUR FIT-FOR-THE-JOB MISSION SYSTEM BASED ON MISSION BLOCKS

Looking at the growing fleet of OPVs and High Speed Craft that have to engage in security related tasks, Damen points the mission at the focal point of its 1800-2400 OPV, Sea Axe and Stan Patrol high speed craft ranges. For these ships Damen offers standardised mission modules with state-of-the-art and balanced radar, sensor, communications and effector elements. The chain is only as strong as the weakest link. Bearing this in mind, Damen carefully monitors the overall quality, exchangeability, effectiveness and value of every element of the standardised mission blocks.

The basic idea: you can directly contact our Damen Staff and design your fit-for-the-job mission system based on these four mission blocks with our specialists. You can configure your vessel and then receive very quickly the type, technical, functional and pricing information.

Simple. Smart. Swift.

INCREASING CREW SAFETY
Damen Stan Patrol vessels are flexible, multi-task platforms, well equipped for the guardianship of territorial waters and their main asset is the Ultra High Speed boat. These boats are the forward deployment tool for high speed interception, boarding and shallow water patrolling. Using the Stan Patrol vessel integrated stern slipway or davit system the boats are launched and recovered quickly and safely even in higher sea states. With a robust design and reliable equipment Damen ensures that the boats can fulfill their missions successfully and cost-effectively. The boats can be fitted with a secure communication suite to exchange messages and data, amplifying the mission effectiveness.

INTERCEPTORS AND RHIBs
ULTRA HIGH SPEED
INTERCEPTION AT SEA

Suitable for
- Counter terrorism
- Anti-drug operations
- Anti-piracy
- Special forces operations
- Rapid response actions
- Support for patrol vessels during operations

INTERCEPTORS
LENGTH O.A. 11 – 35 metres
SPEED 40 – 60 knots
POWER 552 – 5,775 bkW
CREW 2 – 16 persons

Speed is the most obvious criterion for an interceptor. Speed on flat water, however, is not of the highest importance. What counts is speed that can be maintained in waves. Good seakeeping abilities give a distinct speed edge in the real world. Speed requires minimal weight. However, this must be achieved along with a robust structure and capable propulsion, in order to ensure reliability and avoid high maintenance costs.

Manoeuvrability is vital if targets are very agile, such as small open boats with outboard motors.

An Interceptor is a workboat, designed to be used in difficult situations. Therefore, ergonomics are of utmost importance. On the Damen Interceptors the location of the crew, the console and the layout are designed for the demanding circumstances of high speed chasing and maneuvering. Above all stands the safe and predictable behaviour of the Interceptor in the worst conditions.
Rigid Hull Inflatable Boats

**RHIBs**

**Cabin RHIB**
- LENGTH O.A.: 12 metres
- POWER/RANGE: 162 kW/220 hp – 444 kW/600 hp
- SPEED: 30 – 50 knots
- CREW: 2 persons
- SPEC. PERSONNEL: 4 – 14 persons

Suitable for:
- Boarding operations and interception
- High-speed, extreme manoeuvrability and good stability for safe operations
- Built and equipped for professional use

**TRAINING YOUR CREW**

On request, Damen delivers training programmes for the operation of its patrol vessels. Training is provided by an in-house team of professional, experienced trainers to a very high level, covering both standard and tailored programmes. Maintaining a balance between theory and practice, Damen’s training aims to impart the necessary skills to reach the all-important goals of reduced operational costs and improved uptime.

Damen offers a comprehensive range of RHIBs, from 7 to 12 metres in length. The vessels are developed according to the Damen philosophy: standard concept, flexible outfitting. The range has been developed for the military, security and commercial markets. Our RHIBs are able to operate both independently and from a mothership.
With the Amphibious Ships series by Damen, we cover the full range of naval vessel systems for the transfer of equipment and personnel quickly and safely from ship to shore in a wide range of weather conditions.

- Custom-built Amphibious ships
- Landing Platform docks
- Landing ships
- Landing craft

AMPHIBIOUS SERIES
FROM SHIP TO SHORE IN ALL CONDITIONS
The Landing Platform Docks (LPD) have a large internal space for large landing craft utilities (LCU) or six small landing craft vehicle personnel (LCVP) craft and can operate two medium to heavy helicopters at the same time. The design has proven to be very effective in missions. Each can carry up to a marine battalion (600 persons) and has a Role 2 medical facility on board.

**AMPHIBIOUS SERIES**

**LANDING PLATFORM DOCKS**

The Royal Netherlands Navy’s LPD, Johan de Witt can act as an amphibious command ship. It can coordinate amphibious landing operations up to brigade level. For this task it has extra facilities to embark an amphibious staff of up to 402 persons. It can also operate with Chinook helicopters.

The main tasks of HNLMS Rotterdam include transport and the ability to independently land a large group of marines with their associated equipment and supplies for up to ten days. There is room on board for 175 marines, plus vehicles, equipment and ammunition. HNLMS Rotterdam can fully support the marines for 30 days. In addition, the vessel can also be used for various other purposes such as a platform for helicopter missions against submarines and as a transport ship for equipment for land and air forces. It also provides effective support for mine hunters, operations against terrorists, evacuation operations and for environmental disaster relief.

**SUITABLE FOR**
- Amphibious support
- Strategic transport
- Maritime security
- Humanitarian/disaster relief
- Search and rescue
- Fleet replenishment
- Joint operations headquarters
- Naval and maintenance support
- Mine countermeasures (MCM) operations and support
- Hydrographic survey operations and support

**CUSTOM BUILT AMPHIBIOUS SHIPS**

**LPDs**

**HNLMS ROTTERDAM**
- **DISPLACEMENT**: 15,190 tonnes

**HNLMS JOHAN DE WITT**
- **DISPLACEMENT**: 16,680 tonnes

**RFA BAY CLASS**
- **DISPLACEMENT**: 16,190 tonnes

The main tasks of HNLMS Rotterdam include transport and the ability to independently land a large group of marines with their associated equipment and supplies for up to ten days. There is room on board for 175 marines, plus vehicles, equipment and ammunition. HNLMS Rotterdam can fully support the marines for 30 days. In addition, the vessel can also be used for various other purposes such as a platform for helicopter missions against submarines and as a transport ship for equipment for land and air forces. It also provides effective support for mine hunters, operations against terrorists, evacuation operations and for environmental disaster relief.
UNLIMITED CAPABILITIES

The ENFORCER LPDs have proven to be both effective and adaptable, operating successfully in missions beyond those for which they were specifically designed.

OPERATIONAL PROFILE
- Amphibious operations
- Maritime security
- Humanitarian aid/disaster relief
- Search and rescue support
- Fleet replenishment
- Joint operations headquarters
- Repair & maintenance support
- Mine countermeasure (MCM) operations and support
- Hydrographic survey operations and support

LANDING PLATFORM DOCKS
PROVEN MISSION-MODULARITY

In an insecure and rapidly changing world, the ENFORCER Landing Platform Docks (LPDs) have been true ‘workhorses’ for their operators, being highly effective and flexible whatever demands have been made of them. DSNS’s working team is ensuring its vessels are even better prepared for the future. By applying the latest technology and customer feedback and by drawing on our experience, we are constantly improving the ENFORCER series. This includes equipment and material upgrades, internal logistics and enhanced flexibility.

The ability to transfer equipment and personnel quickly and safely from ship to shore in a range of weather conditions is the single most important capability demanded of amphibious ships. The ENFORCER LPD is characterised by a stern dock that creates a sheltered environment for the deployment of landing craft in adverse conditions, up to Sea State 4. This feature ensures an extensive weather window enabling operations for 85% of the time worldwide.

The flexible arrangement of space, internal logistics and vital infrastructure is the basis for the operational success of the ENFORCER series. For many years, the class has been a showcase for mission-modularity in operation.

EFFECTIVE VERSATILITY IN ALL CIRCUMSTANCES

Flight deck for two helicopters and UAVs
Hangar for stowage and maintenance of two helicopters
Secondary gun
Personnel accommodation
Troop accommodation
Operations command & control facilities
Open Roll-on Roll-off cargo deck
Watertight subdivision fulfilling damage stability requirements in docked conditions

Propulsion options include diesel direct, diesel hybrid and diesel electric
Submersible dock enabling safe ship-to-shore transfer even in Sea State 4.
The vessels in the Damen Amphibious Series have proven to be very effective and adaptable. Be it Landing Craft or Landing Platform Docks, the vessels have been successful in both the missions they were designed for and in those they were not. The same design philosophy is used in the latest Landing Ship range. This results in the flexible arrangement of spaces, internal logistics and vital infrastructure, thus ensuring long-term effectiveness and adaptability.

### Landing Ship Logistic

<table>
<thead>
<tr>
<th>Specification</th>
<th>LSL100</th>
<th>LSL120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length O.A. (m)</td>
<td>100</td>
<td>120</td>
</tr>
<tr>
<td>Displacement (tonnes)</td>
<td>1,000</td>
<td>1,500</td>
</tr>
<tr>
<td>Beam (m)</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>Draught (m)</td>
<td>3.4</td>
<td>3.3</td>
</tr>
<tr>
<td>Speed (knots)</td>
<td>14</td>
<td>18</td>
</tr>
</tbody>
</table>

### Landing Ship Transport

<table>
<thead>
<tr>
<th>Specification</th>
<th>LST100</th>
<th>LST120</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length O.A. (m)</td>
<td>90</td>
<td>120</td>
</tr>
<tr>
<td>Displacement (tonnes)</td>
<td>800</td>
<td>1,100</td>
</tr>
<tr>
<td>Beam (m)</td>
<td>14</td>
<td>16</td>
</tr>
<tr>
<td>Draught (m)</td>
<td>3.4</td>
<td>3.6</td>
</tr>
<tr>
<td>Speed (knots)</td>
<td>12</td>
<td>14</td>
</tr>
</tbody>
</table>

Land ships have a history dating back to the Second World War. Despite being primarily intended for amphibious assaults, many landing ships subsequently proved to be very versatile in peace time as well, fulfilling logistics transport and support tasks in remote areas worldwide. However, many vessels are not suited or designed for the tasks that they are expected to carry out.

The Damen Landing Ship range is a state-of-the-art flexible Class designed to fulfill all traditional Landing Ship mission requirements, as well as the support and secondary mission tasks required by modern naval platforms of this size. Implementing many smart design features, the Damen Landing Ship design boosts flexibility, creating vessels with more value throughout their entire lifetime.

<table>
<thead>
<tr>
<th>Operational Profile</th>
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</thead>
<tbody>
<tr>
<td>Amphibious operations</td>
</tr>
<tr>
<td>Transport &amp; logistics</td>
</tr>
<tr>
<td>Mine countermeasure (MCM) operations and support</td>
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<td>Hydrographic survey operations and support</td>
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### Operational Profile

- Amphibious operations
- Transport & logistics
- Mine countermeasure (MCM) operations and support
- Hydrographic survey operations and support
The Landing Craft range includes various essential, cost-effective design features. Included amongst these is a bow ramp (and stern ramp) designed for handling vehicles up to 70 tonnes and a stern anchor and winch for use during beaching and beach recovery.

Damen Landing Craft provide a stable landing platform in surf conditions. The design is optimised for minimum wading depths and features a high degree of survivability and redundancy. The design satisfies modern intact and damage stability requirements.

PROVEN VERSATILITY & FLEXIBILITY

LANDING CRAFT SERIES

**LENGTH O.A.** 15 – 36.6 metres
**DISPLACEMENT** 8 – 80 tonnes
**BEAM MLD** 3.8 – 6.8 metres
**DRAUGHT** 0.8 – 1.25 metres
**SPEED** 11 – 30 knots

**OPERATIONAL PROFILE**
- Amphibious operations
- Ship-to-Shore movements
- Forward operating base (FOB) role
- Harbour protection
- Riverine operations
- Humanitarian aid/disaster relief
- Non-combatant evacuation operations
- Rapid environmental assessments

The Landing Craft range includes various essential, cost-effective design features. Included amongst these is a bow ramp (and stern ramp) designed for handling vehicles up to 70 tonnes and a stern anchor and winch for use during beaching and beach recovery.

Damen Landing Craft are particularly useful when harbour infrastructure has been disabled, being able to deliver aid and support directly to where they are needed. During anti-piracy operations, a flotilla of craft can receive support from a Landing Craft as a forward operating base for several days. A Damen Landing Craft is your long-term amphibious solution.

Damen Landing Craft have been extremely effective and adaptable, with the vessels being very successful in missions they were not specifically designed for. During disaster relief operations, the Landing Craft are particularly useful when harbour infrastructure has been disabled, being able to deliver aid and support directly to where they are needed.

During anti-piracy operations, a flotilla of craft can receive support from a Landing Craft as a forward operating base for several days. A Damen Landing Craft is your long-term amphibious solution.

During anti-piracy operations, a flotilla of craft can receive support from a Landing Craft as a forward operating base for several days. A Damen Landing Craft is your long-term amphibious solution.
The Damen Naval Fleet Support series is available in a wide range of sizes and capabilities, especially designed to provide global support. The series is a cost-effective, flexible and highly capable addition to any fleet.

- Custom-built Naval Auxiliaries
- Multi-role Auxiliary Vessels
- Training Vessels
- Sail Training Vessels
- Custom-built Support Vessels
For Disaster Relief or Emergency Response

Operational Profile
- Amphibious support and operations
- Replenishment at sea
- Strategic lift
- Sea basing
- Maritime security
- Mine countermeasure and disaster relief
- Search and rescue
- Fish replenishment
- Repair and maintenance support
- Mine countermeasure (MCM) operations and support
- Hydrographic survey operations and support

The Joint Support Ship HNLMS Karel Doorman is built for three main tasks: supply at sea for support of maritime units, strategic sea transport, including boarding and disembarking personnel and equipment when there are limited port facilities available, and logistics support from sea (seabasing). For the last, the ship serves as a base at sea for the execution and support of operations on land.

Sensors
- Extensive radar suite for both surface-to-surface and surface-to-air surveillance, IFF, IO-detection System

Effectors
- 2 x Goalkeeper CIWS
- 4 x SRBOC launchers
- 2 x 30 mm remote-controlled force protection guns
- 4 x .50 remote-controlled medium calibre guns

General
- Length O.A.: 205 metres
- Displacement: 27,000 tonnes
- Beam MLD: 30.4 metres
- Draught: 7.8 metres
- Speed: 18 knots

Custom Built Naval Auxiliaries

Joint Support Ship

For Disaster Relief or Emergency Response
Auxiliary vessels are often considered the workhorses for navies carrying out crucial logistics operations. Damen has vast experience in building auxiliaries in both the naval and the commercial areas. Damen Schelde Naval Shipbuilding, our naval shipbuilder, can match commercial and military standards and specifications, enabling us to offer military enhancements according to customer specifications. Vessels are equipped with the latest sensor and weapon suites and cutting-edge communication, automation and propulsion systems.

### LOGISTIC SUPPORT VESSELS

**HNLMS KAREL DOORMAN**
- **Joint Support Vessel (JSS)**
- **Length O.A.** 204.7 metres
- **Displacement** 27,000 tonnes
- **Beam MLD** 30.4 metres
- **Draught** 7.8 metres
- **Speed** 18 knots
- **Range at 15 kn** 10,000 nm

**HNLMS AMSTERDAM**
- **Replenisher (AOR)**
- **Length O.A.** 166.8 metres
- **Displacement** 17,400 tonnes
- **Beam MLD** 22.0 metres
- **Draught** 8.0 metres
- **Speed** 21 knots
- **Range at 15 kn** 13,440 nm

**HNLMS PELIKAAN**
- **Logistic Support Vessel 6513 (LSV)**
- **Length O.A.** 65.4 metres
- **Displacement** 1,150 tonnes
- **Beam MLD** 13.2 metres
- **Draught** 3.0 metres
- **Speed** 15 knots
- **Endurance** 21 days at sea

**HNLMS PHARUEHATSABODI**
- **Hydrographic Survey Vessel (HSV)**
- **Length O.A.** 66.3 metres
- **Displacement** 354 tonnes
- **Beam MLD** 13.2 metres
- **Draught** 3.1 metres
- **Speed** 12 knots
- **Range at 10 kn** 3,000 nm
- **Endurance** 15 days at sea

**HNLMS LUYMES**
- **Hydrographic Survey Vessel (HSV)**
- **Length O.A.** 81.4 metres
- **Displacement** 1,900 tonnes
- **Beam MLD** 13.1 metres
- **Draught** 4.0 metres
- **Speed** 12.5 knots
- **Range at 12.5 kn** 4,300 nm
- **Endurance** 14 days at sea

Damen is an experienced design and construction partner for hydrographic survey vessels. Decades of experience with both naval and commercial hydrographic survey vessels means that Damen can offer customers an unbeatable price-quality ratio.

### THE NAVY’S WORK HORSES

**Auxiliary vessels are often considered the workhorses for navies carrying out crucial logistics operations. Damen has vast experience in building auxiliaries in both the naval and the commercial areas. Damen Schelde Naval Shipbuilding, our naval shipbuilder, can match commercial and military standards and specifications, enabling us to offer military enhancements according to customer specifications. Vessels are equipped with the latest sensor and weapon suites and cutting-edge communication, automation and propulsion systems.**

**Damen ensures that every requirement is met in terms of hull shape, sensor suite and systems. As well as the hydrographic research function, Damen offers add-ons such as search and rescue, (Coast guard) Training.**

### HYDROGRAPHIC SURVEY

**Suitable for**
- Hydrographic and oceanographic survey
- RAS/FAS, sea basing, strategic transport, disaster relief, Search and Rescue
- Assistance during disasters and as a command centre
- Transport of troops and equipment

**Suitable for**
- RAS/FAS, sea basing, strategic transport, disaster relief, Training
- Assistance during disasters and as a command centre
- Transport of troops and equipment
- (Coast guard) Training
The Multi-Role Auxiliary Vessel (MRAV) allows for more than one specific mission during a deployment. The Multi-Role Auxiliary Vessel (MRAV) can serve as a base for more extensive operations such as disaster relief and naval task group training support at sea.

Intended for global service, the MRAV series is the provision of a basic platform offering reliable and cost-effective multi-role potential and survey capabilities. With the addition of supplementary modular mission equipment, this family of vessels can be mobilised in numerous, mainly littoral, naval tasks such as explosive ordnance clearance and disposal, diving operations, torpedo recovery and overhaul, ROV and UAV deployment, SAR, and coastal infantry and submarine support.

The largest version of the range will be able to operate worldwide, on the ocean as well as in littoral waters. This ship has additional capabilities such as disaster and humanitarian relief, hydrography, and naval training support.

The introduction of flexible concepts allows as many functions as possible to be included in the vessels’ scope without reducing the effectiveness and capacity of the fleet.
The Damen Training Vessels range provides training platforms to perform diverse training and support duties. These include torpedo and mine recovery operations, navigation training, diving support and helicopter-related training operations. In addition, they can be used for officer sea familiarisation, target towing and consort duties, as well as unmanned aerial vehicle support.

**SAIL TRAINING VESSELS**

- Length O.A.: 82.3 – 107 metres
- Beam MLD: 11.1 – 14 metres
- Draught: 4.9 – 6.0 metres
- Accommodation: 40+50 – 90+150 crew+trainees

**OPERATIONAL PROFILE**

- Naval cadet training
- Nautical training
- Navigational training

The Damen helps customers give the best nautical and navigational training possible with our Sail Training Vessels. Naval cadet training has never been so easily put into practice. The Damen Sail Training Vessels are designed by Dijkstra Naval Architects for optimal sailing performance.
NAVAL SUPPORT VESSELS

- Fast Crew Suppliers
- ASD Tugs
- ATD Tugs
- Multi Cats

As well as auxiliaries such as the Hydrographic Survey Vessel and Auxiliary Oiler Replenishment vessel, Damen offers many other non-combatants for other types of specialist support.

- Lighter Barges
- Salvage Tugs
- Diving Support Vessels
- Training Vessels
- Emergency Gear Ships
- Submarine support ships

TRAINING VESSELS

The Damen Multi-role Air Training Vessel has been designed and built to undertake the following primary missions:

- Training of helicopter pilots, activities include:
  - Day/night flight deck helicopter take-off and landing operations
  - Simulated helicopter search and rescue operations
  - Training of flight deck crew:
  - Crash on deck procedures
  - Aircraft securing operations
  - Aircraft refueling (hot/cold)

- HIFR, both simulated and live
- Aircraft control training

The vessel was also successfully delivered for the following secondary missions:

- Officer Sea Familiarisation Training
- Consort Duties
- Operational diving support (mine warfare)
- Practice weapon recovery

TRAINING VESSEL

length o.a.: 41.5 – 94.0 metres
beam: 9.2 – 14.4 metres
speed: 12.8 – 17 knots
crew: 24 – 22 persons
spec. personnel: up to 91 persons

SUITABLE FOR:
- Navigation training
- Targeted ship recovery operations
- Diving support
- Aircraft control training
- Officer sea familiarisation
- Target towing
- Consort duties
- Divers and vessel support

TRAINING VESSELS

Suitable for:
- Navigation training
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- Diving support
- Aircraft control training
- Officer sea familiarisation
- Target towing
- Consort duties
- Divers and vessel support
EXPERIENCED DESIGNERS AND BUILDERS OF HIGH-END VESSELS
In addition to shipbuilding and ship design, Damen offers a network of eighteen repair and conversion yards worldwide. With dry docks up to 420 x 80 metres, Damen handles approximately 1,500 repair and maintenance projects annually. The facilities are spread throughout Europe and in Singapore, South Africa, the Caribbean and the UAE, for your convenience. This minimises long diversions, saves costs and increases your flexibility.

**REPAIR  CONVERSION  REFIT  MAINTENANCE  DECOMMISSIONING  HARBOUR & VOYAGE**

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**Any Ship, Any Service**

Damen Shiprepair & Conversion handles every type of naval vessel: frigates, corvettes, patrol vessels, fast attack craft, logistical support, amphibious vessels and more. We can provide a variety of services such as technical assistance, maintenance and repair works, and also more complex capabilities such as total vessel refits (life-time extensions) and conversions (re-purposing). In addition, we maintain a network of trusted suppliers, sub-contractors and partners, all of whom are suitably experienced with naval standards to perform work to onboard equipment such as combat systems, flight decks, hangars and helicopter traverse systems.

**Yard and Dry Dock Availability**

For naval projects we can welcome you at a number of yards, including those at Vlissingen, Brest, Dunkirk, Den Helder, Rotterdam and Harlingen.

Vlissingen and Rotterdam each offer covered dry docks, and in Harlingen and Den Helder you can make use of covered halls, which means that your paint system can be applied under ideal conditions with guaranteed on-time completion.
A BROAD SCOPE OF VESSELS

Damen Shipyards Group operates 35 yards on five continents, employing over 12,000 people worldwide. Damen has delivered more than 6,900 vessels to more than 100 countries and delivers approximately 150 vessels annually to customers worldwide.

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, aimed at providing solutions for the entire spectrum of maritime sectors. Vessels include tugs, workboats, patrol and coast guard vessels, high speed craft, dredgers, offshore support vessels, pontoons and superyachts.

For nearly all vessel types, Damen offers a broad range of services, such as conversions, new builds, delivery and the training and transfer of shipbuilding know-how. To complete its portfolio, Damen offers a series of support components, respectively: engines, rudders, anchor chains and steel works.

In addition to ship design and shipbuilding, Damen Shipyards & Conversion (DSC) offers a network of eight repair and conversion yards worldwide, with 40 dry docks in a size range of 400 to 80,000 DWT. Conversion projects range from minor repairs to today’s requirements and regulations, to the complete conversion of large offshore structures. DSC provides approximately 1,500 repair and maintenance jobs annually.

A broad scope of vessels

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Damen offers a worldwide service support network and 24/7 availability to ensure a swift response. From the moment your vessel is ordered, Damen Services is on board. We offer a wide-ranging portfolio of customer support and after sales services covering the vessel’s complete lifecycle.

Our family values result in an approach where we do not “abandon ship” on our customers. Instead, we support you every step of the way. Our diverse service portfolio helps you to achieve your goals of availability, reliability and low lifecycle costs. Our global service network and 24/7 availability ensure a swift response.

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. Our services are based on thorough R&D and proven technology.

INTEGRATED LOGISTICS SUPPORT

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Additionally, for severe technical or safety issues, our 24/7 service number is on stand-by to assist you until the problem is solved, to your full satisfaction.

MAINTENANCE MANAGEMENT SOLUTIONS

Our Maintenance Management Solutions (MMS) offer access to years of experience and knowledge, gathered through our worldwide Service Hubs, to assist them, whatever their requirements may be.

A PERSONAL 24/7 SUPPORT HOTLINE

Our Personal 24/7 Support Hotline ensures you of round the clock support, the use of technological developments that make life easier.

SUPPORT HOTLINE

Your first point of contact remains your dedicated Damen engineer. Additionally, for severe technical or safety issues, our 24/7 service number is on stand-by to assist you until the problem is solved, to your full satisfaction.

INNOVATION

The Damen philosophy is to build a vessel that works, a vessel that can be maintained cost-effectively. For the Damen Service Hubs, innovation means we put our customers first, in a personal support to maintain the full lifecycle of your vessel.

Our professional and experienced in-house team will assist you, whatever their requirements may be.

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