Uniquely in the shipbuilding world, Damen specialises in building naval and patrol vessels ranging from 7 m to more than 200 m.

Damen has a rich tradition of naval shipbuilding with our original navy roots stemming back 140 years. Damen Shipyards Group is known worldwide for its quality shipbuilding, both in the naval and commercial sector. Damen vessels are entirely fit for purpose, offering unrivalled seakeeping behaviour, speed and reliability.
Damen's focus on standardisation is undoubtedly one of our fundamental corporate values. In 1969, Jan Damen handed the reins over to his son Kommer Damen. The modular building concept was one of the first initiatives Kommer Damen introduced after listening carefully to client feedback.

Four decades ago the standardisation concept was totally new in the shipbuilding industry and today it still differentiates Damen from its competitors. In each of our niche markets – from tugboats to luxury yachts – Damen has developed a standard range. However, although these vessels are based on a standard design, they can be equipped with a large range of options to meet specific customer requirements. Our standard designs can be tailor-made according to customer wishes or we can of course, start from scratch to design a unique vessel. All of these options are no problem with Damen’s far-reaching capabilities.

**STANDARDISATION KEY TO SUCCESS**

Damen is your partner for both standard designs and for unique custom designs. We have decades of experience, a diverse portfolio of products and all the in-house expertise needed. All of this will ensure the best end result.

**ADVANTAGES OF STANDARDISATION**

- Fast response to customer requests
- Competitive pricing
- Short delivery times due to stock hulls
- Reliability, proven and tested technology
- Continuous product development
- Interchangeability of ships, crew, spares
- Lower maintenance costs
- Guaranteed performance
- Benchmark for the industry

**DAMEN OFFSHORE PATROL RANGE**

For each type of vessel Damen has developed a full standard range to meet customer requirements.
Damen’s standardisation policy allows us to reduce delivery times substantially. We build a wide variety of standard vessels on our own initiative and on our own account and keep them in stock. All of our standard designs are worked out to the smallest detail. Therefore Damen can deliver fully finished vessels very quickly and efficiently. The vessels are produced at our shipyards worldwide, close to our customers. This results in an efficient delivery process at the best price-quality ratio.
Damen’s extensive R&D Department represents a powerful force, especially when combined with the Dutch maritime technology cluster. All Damen vessels benefit from thorough R&D from their initial design, throughout the vessel’s entire lifetime. Our team is continuously improving our vessels, making them faster, quieter, more cost-efficient and more environmentally friendly. Many years of research have also led to some truly pioneering designs such as the Enlarged Ship Concept and the Sea Axe.

Damen has vast experience in the use of composites ranging from tough applications for the offshore industry to high tech Interceptors for navies, coastguards and police forces.

Since the eighties, Damen and Delft University of Technology have cooperated in a research programme aimed at improving the seakeeping characteristics of high speed vessels. This cooperation produced the “Enlarged Ship Concept” on which the highly successful Stan Patrol 4207 and 4708 are based. The development of the “Axe Bow Concept” followed, a hull shape with unparalleled seakeeping characteristics. Based on this concept, Damen has developed the “Sea Axe” Patrol Boats and Fast Crew Suppliers.

All Damen vessels benefit from knowledge gathered during ongoing research programmes within the Group. Damen works alongside world-renowned research institutes like Delft University of Technology, Maritime Research Institute Netherlands (MARIN) and the Netherlands Organisation of Applied Scientific Research (TNO), as well as other reputed universities and leading maritime companies.

By using the Finite Element Method, the actual behaviour of the ship can be simulated. Undesired effects can be found and corrected.
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 in terms of product improvements and life cycle cost.

SUSTAINABILITY THROUGH THE ENTIRE LIFECYCLE

**GLOBAL PRESENCE**

FOUNDED IN THE NETHERLANDS

THE NETHERLANDS
Damen Shipyards Gorinchem
Damen Marine Services
Damen Trading
Damen Schelde Naval Shipbuilding
Damen Schelde Gears
Damen Schelde Marine Services Vlissingen Amels
Damen Dredging Equipment
Damen Marine Components
Damen Shipyard Rotterdam
Damen Shipyard Vlissingen
Damen Shipyards Den Helder
Damen Shipyards Hardinxveld Maaskant Shipyards Stellendam
Shipdock Amsterdam
Shipdock Harlingen
Oranjewerf Amsterdam

FRANCE
Damen Shipyards Brest
Damen Shipyard Dunkerque

POLAND
Damen Shipyards Gdynia
Damen Shipyards Kozle
Damen Marine Components Gdansk

ROMANIA
Damen Shipyards Galati

SWEDEN
Damen Örskarhamnsvarvet

TURKEY
Damen Shipyards Antalya

UNITED KINGDOM
Brixham Marine Services

BRAZIL
Wilson, Sons**

CUBA
Damex*

QATAR
Nakilat Damen Shipyards Qatar*

SOUTH AFRICA
Damen Shipyards Cape Town

U.A.E.
Albwardy Marine Engineering*
Damen Shipyards Sharjah (FZE)*

CHINA
Damen Shipyards Changde
Damen Yichang Shipyard*
Damen Marine Components Suzhou
Damen Trading Suzhou
Afai Southern Shipyard**

INDONESIA
PT Dumas**
PT Pal**
PT Steadfast Marine**

SINGAPORE
Damen Shipyards Singapore
Damen Schelde Marine Services Singapore

VIETNAM
Damen Song Cam Shipyard
Song Cam Shipyard**
Song Thu Shipyard**
189 Shipyard**

A study has been carried out to evaluate the influence of different ship components on the airflow around the ship’s superstructure. By means of CFD simulation and validation by wind tunnel experiments, working conditions have been determined at different wind speeds and sailing speeds combined with different wind angles and ship headings.

COMPUTATIONAL FLUID DYNAMICS (CFD)
CROSSOVER SERIES

In recent maritime operations navy ships were increasingly sent out on missions as single ships. Future ships need to be self-sustaining, self-reliant and capable of dealing with threats effectively. The Crossover Series have been developed as a new hybrid ship concept to address these combined trends. With the fighting power of a frigate, it has the endurance, versatility and flexibility of an amphibious ship.

SIGMA FRIGATES & CORVETTES

Damen supplies a complete range of vessels in the Surface Combatants sector built according to the Ship Integrated Geometrical Modularity Approach (SIGMA). Although built according to this concept each vessel is entirely tailor-made to the client’s operational requirements. The SIGMA range is available in configurations including corvettes and multi-mission frigates.
COMBATANTS
AIR DEFENCE AND COMMAND FRIGATE 'HNLMS ZEVEN PROVINCIËN'
Combatants are built using standardised modules according to the Ship Integrated Geometrical Modularity Approach (SIGMA) concept.

- Vessels built to suit customer’s operational aims.
- Damen establishes exactly what the customer wants in terms of weapon systems, sensors and electronic warfare capabilities.
- Several length and breadth configurations available.
- Vessels perfectly adapted to modern tasks, such as combating piracy and smuggling.
- Anti-air, anti-surface and anti-submarine capabilities.
- Uniquely, Damen is not bound to specific weapon and sensor system suppliers, so can provide what the customer requires.
- Damen can build locally.
- Integrated Logistic Support.

The Royal Moroccan Navy ordered three Sigma Class multi-mission Frigates. The Navy is aiming to modernise the fleet and extend its patrol capacities. By adding one or two modules, these frigates are extended versions of the existing Sigma vessels.

SIGMA FRIGATES & CORVETTES

Damen offers a complete range in the Surface Combatants sector including multi-mission frigates and corvettes.
Damen supplies a complete range of vessels in the Surface Combatants sector built according to the Ship Integrated Geometrical Modularity Approach (SIGMA). Although embracing this concept each vessel is entirely tailor-made to the client’s operational requirements. The SIGMA range is available in configurations including corvettes and multi-mission frigates.
NAVAL FEATURES

- Naval intact and damaged stability standards
- Enclosed gas-tight citadel and NBC filter installation
- 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

PROVEN HULL FORMS ACROSS A WIDE RANGE OF MAIN DIMENSIONS

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SIGMA CORVETTES
Damen offers a complete range in the Surface Combatants sector including corvettes. Corvettes are the small class of combat ships built using standardised modules according to the SIGMA Concept. Our unique modular approach results in high availability, flexible combat systems and systematic flexibility. Although built according to this approach, the vessels are entirely tailor-made to meet the customers’ requirements.

SIGMA FRIGATES & CORVETTES
In recent maritime operations navy ships were increasingly sent out on missions as single ships. Future ships need to be self-sustaining, self-reliant and capable of dealing with threats effectively.

The Damen CROSSOVER has been developed as a new hybrid ship concept to address these combined trends. With the fighting power of a frigate, it has the endurance, versatility and flexibility of an amphibious ship.

**CROSSOVER**

**ROLE SWITCHING: DEDICATED CAPABILITY PACKAGES**

FLEXIBILITY FOR THE FUTURE

On top of traditional naval warfare tasks, today’s navies face growing challenges in the field of maritime security and Humanitarian Aid & Disaster Relief (HADR). The number of tasks increases while the number of ships remains the same or even decreases. Fully developed to execute current tasks and cater for future capabilities, the Damen CROSSOVER 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, fast RHIBs, as well as landing craft. As multiple modes of access and handling are provided, future systems – unknown at present – will be able to be fitted and operated.
OFFSHORE PATROL

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.

STAN PATROL

The Inshore Patrol Vessels are based on the Sea Axe (Axe Bow) hullform, which provides unrivalled seakeeping characteristics, resulting in a much higher operability compared to conventional hull forms.

INTERCEPTORS AND RHIBS

Speed and extreme manoeuvrability are the obvious criteria for the Interceptors and RHIBs and Damen has given it more than plenty of that. These vessels are the best choice for anti-smuggling or interception duties.
PATROL
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.

Damen Offshore Patrol Vessels (OPVs) range from 1,000 to 3,750 tonnes displacement.

Operations they are ideal for include:
- Military security (Border & EEZ surveillance, anti-piracy and terrorism).
- Marine safety (SAR, oil pollution detection).
- Humanitarian tasks (Disaster relief, logistic operations).

Damen OPVs can accommodate an organic helicopter up to the 10 tonne-class, such as the Sea Hawk and NH-90. A flight deck and hangar space with adjacent service spaces and flight control facilities are provided.
OFFSHORE PATROL

While based on proven technology and designs, Damen’s OPVs are constantly updated with the latest operational requirements and new techniques. With the help of our clients and the highly experienced Damen R&D Department the newly developed Multi Mission Bay (MMB) concept has been adopted into the OPV designs. Additionally, the recent developed stern slipway (very successfully proven by the Royal Netherlands Navy) will be included in the new MMB concept.

OFFSHORE PATROL VESSEL 2400
OFFSHORE PATROL VESSEL 2600
OFFSHORE PATROL VESSEL – INTERIOR

To answer today’s requirements, OPV designs are based on:
- High quality accommodation, adaptable to tasks.
- Having limited military systems on board.
- High level of proven technology.
- 24/7, 365 day availability.
- Economic patrolling (modern hull forms and propulsion).
- Excellent inspection capabilities (boarding boats and helicopter facilities).
STAN PATROLS

Advantages:
- Particular attention paid to improvement of the seakeeping characteristics.
- Both the Enlarged Ship Concept and the Sea Axe design ensure unrivalled seakeeping behaviour and significant reduction in fuel consumption.
- Maximum consideration given to reducing construction fatigue.
- Ergonomic design ensures comfort and safety.
- Noise and vibration levels meet most demanding international standards.
The Inshore Patrol Vessels are based on the Sea Axe (Axe Bow) hullform, a joint development of Damen with Delft University of Technology, which has a global reputation in the field of ship hydromechanics. This hull form provides unrivalled seakeeping characteristics, resulting in much higher operability compared to conventional hull forms. As well as this, the Sea Axe is a very economical hull shape, both at patrol and sprint speed.
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**STAN PATROLS**

- **STAN PATROL 1605**: Speed in knots 23 25 27 29 31
- **STAN PATROL 1605 FRP**: Speed in knots 23 25 27 29 31
- **STAN PATROL 2205**: Speed in knots 23 25 27 29 31 33 35 37 39
- **STAN PATROL 3007**: Speed in knots 23 25 27 29 31
- **STAN PATROL 5009**: Speed in knots 23 25 27 29
- **STAN PATROL 5509**: Speed in knots 23 25 27 29
- **STAN PATROL 6011**: Speed in knots 23 25 27
- **STAN PATROL 4207**: Speed in knots 23 25 27 29
- **STAN PATROL 1204**: Speed in knots 15 17 19 21 23 25
Ergonomic layout of the helmsman's position, with all controls located around the wheel. Shock mitigating seats for safety and comfort.
The Damen Interceptor portfolio ranges from the container-transportable 55+ knots version up to the full-fledged 26 m high-speed chase vessel. Reliable in all aspects and extremely effective.

INTERCEPTORS AND RHIBS

- Proven design, based on experience and feedback.
- Designed and built as a workboat for professional use.
- Top quality equipment and materials.
- Off the shelf propulsion – easy and cost-effective maintenance.
- Excellent manoeuvrability and trim control.
- Very good stability, improving safety.

The Damen Interceptor 1102 is easily container-transportable.
An Interceptor prototype was sent all over the world in a container during its testing period. Police forces, coastguards and navies have now tested the Interceptor in real life conditions.
The objective of this programme was to make sure the production version would be highly reliable and optimised by professionals.

RIGID HULL INFLATABLE BOATS

The Damen Rigid Hull Inflatable Boat (RHIB) is designed for high-speed patrol duties in all waters.
Speed and extreme manoeuvrability are the obvious criteria for the RHIB and this vessel certainly lives up to expectations. With three fully exposed standing places and seats, this vessel is the best choice for anti-smuggling or interception duties.
Damen has an impressive track record with regard to amphibious vessels. These ships are highly specialised units providing the tools to achieve mission objectives on land, while coming from the sea. Typical operations range from Humanitarian Aid and Disaster Relief to amphibious raids in a hostile environment. The integrated logistics process of transferring assets from ship to shore is key to the success of these operations.

The Damen Amphibious Series provides an entire range of highly flexible vessels and craft to provide our customers with a complete solution for their requirements.
LANDING PLATFORM DOCKS

ENFORCER Landing Platform Docks have been true ‘workhorses’ for their operators, being highly effective and flexible whatever demands are made of them.

By using the latest technology, customer feedback and by drawing on our vast experience, the ENFORCER is continually being improved. This includes equipment and material upgrades, internal logistics and enhancing flexibility.
The Damen Landing Ship range is a state-of-the-art flexible Class designed to fulfil 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 lifetime.
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 destroyed, being able to provide aid and support on the spot. During counter piracy operations a flotilla of small craft were operating and supported from a Landing Craft as a Forward Operating Base for several days. A Damen Landing Craft is your long-term amphibious solution.
Nowadays amphibious operations are subject to doctrine shifts towards Ship-to-Objective Manoeuvre (STOM), Over The Horizon (OTH) and Forward Operating Base (FOB) tactics.

LANDING CRAFT

As the distance between the mother ship and Area of Operations/Landing Area has increased over the years a new approach to designing Landing Craft was needed, based on the latest developments and client requirements. As a result, faster Landing Craft have been developed, which are able to maintain their performance.
NAVAL AUXILIARIES

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 arena.

SAIL TRAINING VESSELS

Damen helps customers to give the best nautical and navigational training possible with our Sail Training Vessels. Navy cadet training has never been so easily put into practice.

SUPPORT VESSELS

As well as the auxiliaries Damen offers many non-combatants which offer all types of support including: submarine rescue ships, logistic support vessels, diving support vessels, training vessels, lighter barges and tugs.
AUXILIARIES
Auxiliary vessels are often considered the workhorses for navies carrying out crucial logistics operations.

NAVAL AUXILIARIES

Damen has vast experience in building auxiliaries in both the naval and the commercial arena. Damen Schelde Naval Shipbuilding, our naval shipbuilder, can match commercial and military standards and specifications, enabling it 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 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 its customers an unbeatable price-quality ratio.

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 a Search & Rescue, mine-sweeping and training functions.
SAIL TRAINING VESSELS

Damen helps customers give the best nautical and navigational training possible with our Sail Training Vessels. Navy cadet training has never been so easily put into practice. The Damen Sail Training Vessels are designed by naval architect Gerard Dijkstra to establish optimal sailing performance.
As well as the auxiliaries, such as the Hydrographic Survey Vessel and Auxiliary Oiler Replenishment vessel, Damen offers many other non-combatants which offer many other types of support including:

**SUPPORT VESSELS**

- Submarine rescue ships
- Logistic support vessels
- Diving support
- Training vessels
- Lighter barges
- Tugs

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Damen’s huge auxiliary building capability is demonstrated by a large three-year contract we completed for Serco in 2010, involving 29 new vessels. The order included pilot boats, supply boats, tugboats, high-speed craft and barges. The 16 Damen vessel types included in the order ranged between 12 m and 86 m and they were built at Damen shipyards in the Netherlands, Poland and Romania. The 29 vessels will enable Serco to support the British Royal Navy at its bases in Portsmouth, Devonport and the Clyde.
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 are built on-site by 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
CUSTOMERS IN ACHIEVING THEIR GOALS

Damen Services offers a wide-ranging portfolio of customer support and after-sales services covering the complete vessel’s 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

START-UP  DEPLOYMENT  LIFE-TIME EXTENSION

COMMISSIONING & TRIALS

MAINTENANCE MANAGEMENT SOLUTIONS

TECHNICAL ASSISTANCE

REPAIR & CONVERSION

SHIP DELIVERY

WARRANTY SUPPORT

CUSTOMER SERVICE AGREEMENTS

TRAINING

RECYCLING

PARTS

TRADING

SERVICES PORTAL

CONSULTANCY

CONFIGURATION MANAGEMENT