




# Offshore Wind

**DAMEN**



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Climate change is the challenge of our generation. As we shift from fossil fuels to renewable energy sources, Damen is committed to providing its customers with responsible, efficient and economically viable solutions.

# Meeting the challenge of our future



» While we make the transition to renewables, we believe that it is crucial that the operational activities are conducted as responsible and efficient as possible as well.





## GLOBAL PRESENCE AND SUPPORT

# Founded in the Netherlands

A family business founded in 1927 in the Netherlands, Damen operates 36 shipbuilding and repair yards, and employs 11,000 people worldwide.

Damen has delivered over 7,000 vessels to more than 100 countries and typically builds around 175 vessels annually. Due to its unique, standardised ship-design concept, Damen is able to guarantee consistent quality.



- Y Damen newbuild yard
- R Damen Shiprepair & Conversion yard
- D Damen Technical Cooperation yard
- S Damen Service Hub
- C Damen Company

## THE DAMEN STANDARD

# Design & building philosophy

Damen has been refining its shipbuilding skills and craftsmanship for more than 90 years. Our Chairman, Kommer Damen is a true pioneer in the maritime industry, having introduced the standardised shipbuilding concept back in 1969. He understood that this concept gave Damen customers the benefit of being able to order vessels from stock, ensuring a swift delivery.

Extensive R&D and input from our customers over the generations means that Damen vessels continually evolve and improve. Damen vessels are based on proven designs and guaranteed to be built to the highest quality standards, resulting in unbeatable performance, which in turn leads to maximum uptime and the lowest total cost of ownership.



## » Research & Development

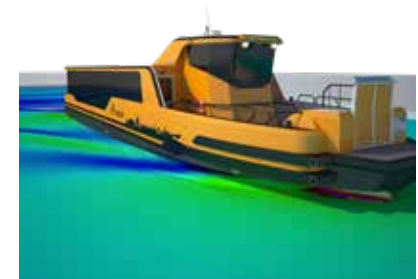
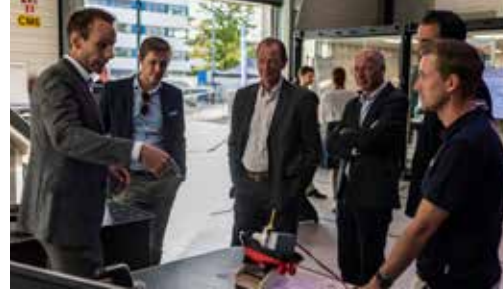
The standardised shipbuilding concept has significant implications for Damen's RD&I activities. Anticipating market needs in the development of standard vessels enables us to implement state-of-the-art features within new designs. Building vessels in series has also allowed us to develop extensive RD&I programmes that ensure continual knowledge and product evolution and enable the adoption of robust and reliable breakthrough technologies.

## » Innovation

Innovation is in Damen's DNA. The standardised shipbuilding concept and the Sea Axe hull are just two examples of our contribution to developments in the maritime industry. Innovation remains a key focus in all that we do.

## » Modularisation & One-offs

Standardisation does not imply a set approach with no flexibility. Damen is also experienced in the production of custom one-off vessels. Additionally, an extremely wide range of modular options is available for the standardised ship portfolio, ensuring vessel optimisation whatever the task.



**BELLONA**

**TU Delft**

**MARIN**

**TNO** innovation  
for life

## DAMEN'S BACKBONE

# Research, Development & Innovation

Our RD&I programmes have led to many ground-breaking innovations. Commitment to continuous improvement reduces the environmental impact of our products over their entire lifecycle. Digitalisation of Damen products and services is an important part of our efforts.

The potential of big data, almost limitless computational power and cloud computing enable us to develop lifelike simulation models, which we use to predict vessel performance. Damen acts at the forefront of knowledge and innovation, enhancing sustainability and digitalisation at every opportunity.



### » Sustainable Solutions

It is the nature of our business that our products and services have a significant impact on the world around us. This is because of the materials we use, the extended lifetimes of our products and the processes occurring at the end of their lifecycle. This is why we integrate sustainability as early as possible into the design of our vessels, making the transition to the circular economy a priority.

### » Sustainable Operations

Being aware of the impact that we, as a company, have on the environments in which we operate and the people within them, is a major part of keeping our house in order. We are committed to reducing this impact, keeping people safe, providing good working conditions, and engaging with the local communities around us.

### » Sustainable Organisation

Becoming the most sustainable shipyard means transforming the Damen organisation now and ensuring it remains responsive in the future. It means building a strong organisation where the principles of sustainability are fully embedded across all our businesses.

## NAVIGATING TO ZERO Sustainability



Our dedication to our environmental, social, and economic responsibilities includes always working within the law and voluntarily exceeding legal requirements. We seek to be innovative and to demonstrate leadership in relation to sustainability, understanding the importance of this for our future and for that of our stakeholders.

We design, manufacture, repair, and service maritime solutions that enable a positive outcome for our employees, clients, local communities, and suppliers, while preserving our oceans and waterways.

FROM STANDARD TO BESPOKE

# Platform-based approach

## » Three design levels

We have three design levels in our portfolio – the Standard design, Platform design and Engineered to Order (ETO) design. This approach enables the Offshore Energy department to minimise reaction times and costs in the quotation process.

## » High Standard

You can benefit from our vast experience. We offer ship designs which have been built before in a (small) series, meeting market standards and matured over time. A Basic & Detailed engineering package is immediately available which saves you time and money. We can provide a quote for a standard vessel almost instantly.

## » Platform-based design

We can offer you specific designs developed to a certain generic level which can easily be adapted to your wishes. Certain aspects such as the hull form, main characteristics, volumes and weight, can be built to your requirements. A quotation for a Platform design can be provided relatively quickly and accurately, while an Engineered to Order design will be more time consuming.

## » Engineered to Order

If you have special requirements, your vessel will be Engineered to Order (ETO). We will start from scratch, listening to your wishes and using our decades of experience to develop what you need. Given this ETO approach, it will take us a little more time to provide you with a quote but of course, we will endeavour to get you the detailed information you need as soon as possible.



THROUGH THE ENTIRE LIFE CYCLE

# Sustainable building

In order to ensure global prosperity for the next generations and keep the earth habitable with an ever-increasing world population, it is essential that we use the water and the seabed as optimally, but also as responsibly, as possible, with good stewardship for

earth, nature and the environment. At Damen, sustainability is about creating added value for economical, societal and environmental purposes. We believe firmly that by embracing sustainability we ensure our continued growth and relevance for the future.

## FINANCIAL SERVICES

# Financing and leasing

Damen Financial Services offers a wide range of financing arrangements for all types of Damen vessels, equipment, and products.

### Supporting all kinds of clients

Damen Financial Services supports everything from start-up companies to large entities, as well as government bodies.

### Relevant financial solutions

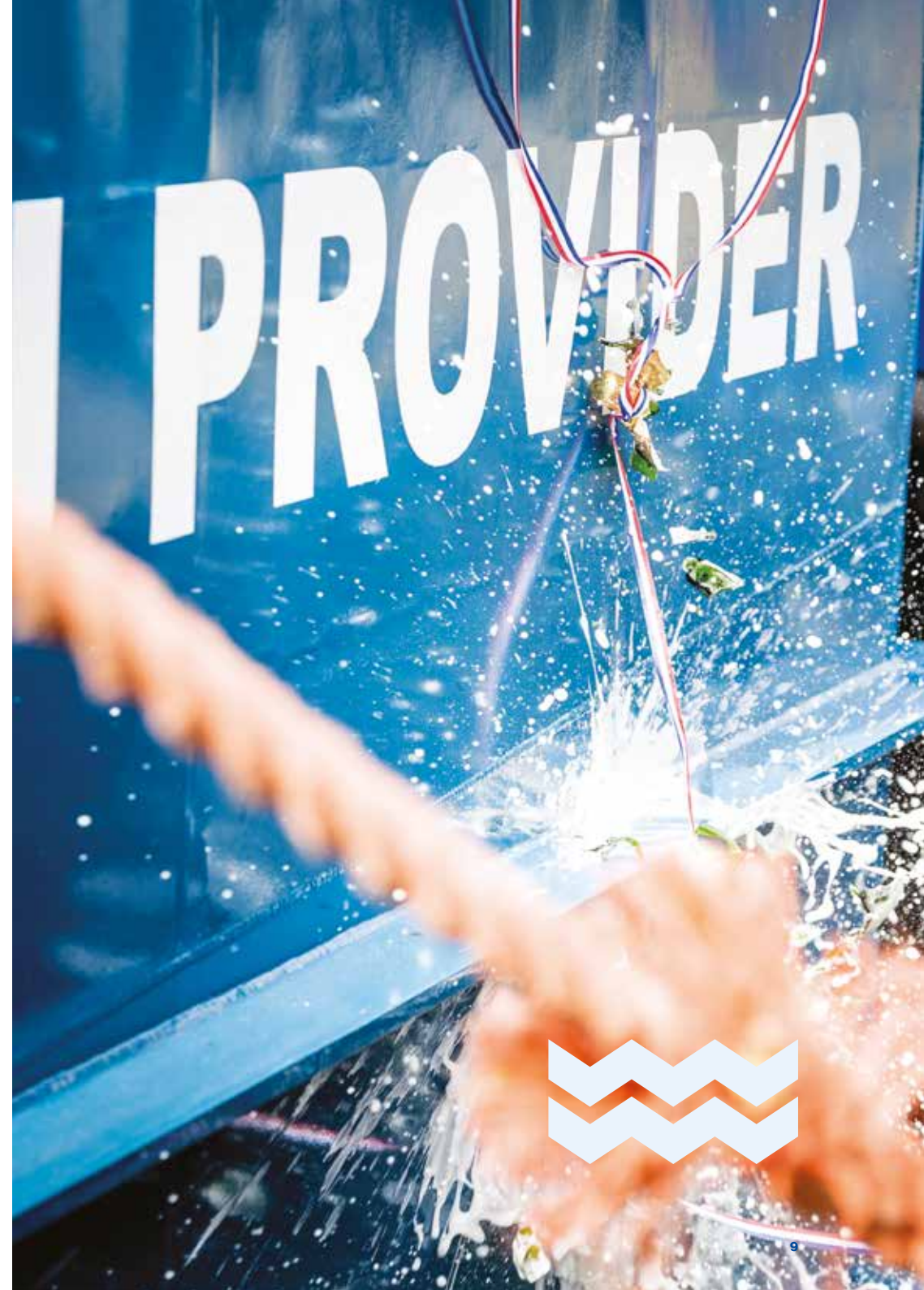
For complex and larger projects, a buyer's credit is applied. For smaller, standard projects a supplier's credit is more feasible. Additionally, our customers are able to lease Damen vessels via Damen family-owned leasing companies. For special purpose companies, Damen Financial Services can provide support through project finance. This is based on projected cash flows related to contracts and anticipated contracts.

### Strong financial network

For more than 40 years, Damen Financial Services has dedicated itself to arranging export loans and leasing facilities. During this period, we have developed long-standing relationships with national and international commercial banks, export credit insurers (e.g. the Dutch Export Credit Agency Atradius), investors and multilateral institutions.

### Some of the major benefits are:

- › Saving costs due to favourable loan durations, down payments, and interest rates relative to local market conditions.
- › A user-friendly service. Damen Financial Services will arrange the most suitable financial package on behalf of our clients. This includes assisting with the application and required documentation and conducting the necessary risk assessments.
- › Our market knowledge and financing experience offers access to a wide range of relevant financial solutions.





## BUYING AND SELLING

# Trading & Chartering

Damen Trading is the specialised sale and purchase broker within Damen. Over the years, Damen Trading has gained extensive experience in vessel brokerage and trade-in services.

For customers, this results in a comprehensive service before, during, and after the acquisition of a vessel.

THINK GLOBAL, ACT LOCAL

# Damen Technical Cooperation



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

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

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



### Design & Licences

- › Basic and/or detailed designs provided
- › License/royalty for multiple series
- › Proven design



### Material packages

- › Renowned suppliers
- › Materials on stock
- › Advanced logistics



### Building assistance

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



# Offshore Wind



# The offshore wind portfolio

- 1** Offshore Construction: Floaters
- 2** Platform Supply Vessel / Offshore Support Vessel
- 3** Floating Offshore Wind Support Vessel Concept
- 4** Crew Transfer Vessel
- 5** Multibuster
- 6** (Commissioning) Service Operations Vessel + Crew Transfer Vessel
- 7** Offshore Construction: HVDC topside







## READY FOR A RENEWABLE FUTURE

# (Commissioning) Service Operations Vessels

The offshore energy industry is steadily growing. Projects are being developed both closer and farther from shore. Damen offers efficient Service Operations Vessel and Commissioning Service Operations Vessels designs for any circumstance to provide a stepless access workflow as safely and efficiently as possible.

Our hybrid SOVs have an innovative battery hybrid diesel-electric propulsion system as standard, offering operational flexibility with savings on fuel consumption. Continuously searching for new technologies to help

guard against climate change, we are on a journey from fossil to zero carbon fuels. To our research department, each challenge offers possibilities. For better reduction in both fuel consumption and emissions, our focus is also on maintaining propulsion efficiency. This is realised through an optimised thruster layout. Digital monitoring paves the way to more precise scheduled maintenance. Damen Triton is the gateway through which all data from systems and equipment aboard Damen vessels can be channelled. It includes the

remote monitoring of fuel consumption patterns. This leads to cost savings and maximised uptime.

Your people deserve the best possible working environment. Comfort of technicians starts with a stable platform that moves as little as possible. Keeping vibrations and noise to the lowest levels will give crew and technicians peace of mind so they can work with focus and truly relax in their spare time. Thanks to the appealing accommodation outfitting, technicians will soon feel at home.

### Highlights

- › Prepared for operation on green methanol
- › Hybrid as standard
- › Efficient thruster layout
- › Alternative fuels
- › Remote monitoring
- › Crew comfort
- › Low noise and vibrations
- › Optimal logistic layout
- › A stable platform with as little movement as possible
- › Optimised hull form
- › Software for ship motion prediction
- › Accurate ship and gangway motion forecasting



### CSOV/SOV Range

Length	57 - 90 m
Speed	12 - 13 kn
Deadweight	800 - 2,300 t
Accommodation (crew + special personnel)	44 - 120 persons
Covered warehouse area	330 - 480 m <sup>2</sup>





## HIGH OPERABILITY IN NEAR-SHORE WINDFARMS

# FCS Twin Axe Series

Within the Damen Fast Crew Supplier (FCS) range, the Twin Axe vessels are specifically designed to operate in the offshore wind sector. With their Sea Axe hulls, sturdy bow landing

construction and large foredeck, the vessels are optimised for crew transfers and supplying offshore constructions. The hybrid propulsion solution and IMO Tier III SCR systems are sustainable

standardised options. The Damen Twin Axe vessels safely delivers crew offshore.

### Options

- › Hybrid propulsion system
- › SCR systems in exhausts
- › Hydraulic deck crane
- › Rescue Zone
- › Basic to VIP seats
- › Fuel cargo system
- › Extra crew cabins
- › Personnel cabins



### Twin Axe Range

Length	27 - 35 m
Beam	10 m
Deck area	90 - 165 m²
Speed max	24 - 25 kn
Personnel	12 - 24 persons





## SAFER, MORE EFFICIENT AND COST-EFFECTIVE Cable Laying Vessels

Although the Damen Offshore Carrier (DOC) is a platform design with a large open deck for different modules, the *Maersk Connector* and *Nexus* are designed as dedicated Cable Laying Vessels (CLV). The CLV is the result of a perfect collaboration between the client, charterer, suppliers and Damen, taking into account the client's operational expertise. This was recognised when the vessel won the Offshore Support Ship 2017 Award.

In the design process particular attention was paid to the distinctive, sleek bow and slender hull, which enable the vessel to sustain its speed

and course in head seas, as well as helping to reduce fuel consumption. The bow design results in less acceleration and slamming has been reduced to a very low level, improving comfort and safety. A DP3 system ensures the vessel's suitability to the latest market demands, providing extreme stability for safe loading/unloading operations offshore.

All vessels in the CLV range can be customised with DP2/DP3, a helicopter deck (Sikorsky S76/S92), 4-point mooring, active roll damping and a retractable bow thruster. Additionally, they can be prepared for Ice Class

accreditation if required. The DOC is also suitable for grounding/beaching. The CLV is supplied with a Green Passport, which gives an inventory of possible hazardous materials on board. Fuel tanks are protected with cofferdams (bottom and shell), and the vessel has a Zero Dumping Certification. Special attention is paid to sustainability, ensuring a long lifetime for the vessel. Scrubbers are optional to gain the benefits of HFO sailing and to reduce emissions. Heat recovery is optional (cooling water/exhaust gas). A full Clean Design Notation is another possibility.

### Highlights

- › Platform based, engineered to order
- › Excellent seakeeping behaviour & sustained speed in higher sea states
- › Optional suitable for grounding/beaching
- › DP3 optional
- › Green passport
- › Exceptional crew comfort
- › Maximum sound reduction
- › Built to last



### CLV Range

Length	100 - 150 m
Breadth	20 - 32 m
Draft	5.5 - 8.0 m
Deadweight All Told	5,000 - 14,000 t
Trial speed max approx.	10 - 15 kn





## MULTIFUNCTIONAL OFFSHORE WORKBOATS

# Utility Vessels

Damen's Utility Vessels (UV) are designed to support a wide range of offshore and coastal activities. Large, spacious decks, ample storage and comfortable accommodation for crew and boarding parties are just some of the benefits of these versatile workboats. Designed specifically for light duty supporting tasks, the vessels include the latest technology, have fit-for-purpose technical installations, and offer modern high performance. Offshore energy (whether oil, gas or

renewables) repair and maintenance, hydrographical surveying, diving and ROV support, navigation aids and buoy laying, lighthouse supply, aquaculture, environmental protection, fire-fighting and oil recovery are just some of the supporting activities performed by these vessels.

Damen provides a wide selection of options to allow our customers to tailor their Utility Vessel to their exact requirements. The UV Series offers

owners a flexible offshore workboat solution for inshore and offshore operations.

Diesel-direct, diesel-electric or hybrid propulsion packages; fixed shafts or rudder propellers, single, multiple or retractable bow thrusters, crane, A-frame and access system options; towing and anchor handling equipment, dynamic positioning and 4-point mooring are just some of your options.

### Highlights

- › Large clear deck areas
- › Cargo hold, stores and offices dedicated to project use
- › A large accommodation area not only for crew but also for project teams
- › A high level of comfort that will make seafarers and non-seafarers feel at home on the water

A wide selection of options is available to tailor your Utility Vessel to your requirements.



### UV Range

Length	25.1 - 65 m
Beam	10.5 - 15.8 m
Depth	4.0 - 7.40 m
Draught	2.8 - 4.5 m
Deadweight	160 - 900 t





## FIT-FOR-PURPOSE ANCHOR HANDLERS

# Anchor Handling Tug Suppliers

When it comes to anchor handling and towing, efficient and safe operations are key. Damen's versatile Anchor Handling Tug Suppliers (AHTS) are dependable and strong, ready to take on any challenge.

The Damen AHTS vessels boast a distinctive design. These versatile vessels range from 75 tonnes up to 200 tonnes bollard pull. The latter version is specifically meant to serve deep water offshore operations with

a current maximum depth of 3,000 metres. All of our AHTS vessels are designed with the following aspects in mind and serve as a starting point for your specific maritime challenge.

### Highlights

- › Safe operations
- › Efficient propulsion
- › Optimal crew comfort
- › Optimal system integration



### AHTS Range

Bollard pull	75 - 200 t
Length	61.3 - 89.1 m
Power total	4,400 - 13,500 kW
Winch pull	150 - 400 t





## ENABLING THE NEXT STEP IN OFFSHORE WIND

# Floating Offshore Wind Support Vessel Concept

Anticipating upcoming large scale floating windfarm installation, Damen has developed the FLOW-SV concept that can accelerate the development of this new maritime segment. The Damen FLOW-SV is specially designed to install ground tackles for offshore turbine floaters. The vessel can load the immense lengths of chain needed to install and secure nine anchors or suction piles. Instead of mooring one floating windmill in a mission, three can be secured.

It also applies sufficient proof loading on the anchors in order to make the installation more efficient.

### Reason to develop this concept

Given the size of the turbines and the depths of the water in which they will

be positioned, these FOWTs (Floating Offshore Wind Turbines) will require chains and anchors of unprecedented sizes. Even just one installation starting to drag an anchor could have serious impact on the output of an entire windfarm. The anchoring systems must leave nothing to chance. While anchoring technologies will remain much the same, the vessels required will need to be much bigger than today's anchor handling vessels. And, given the projected demand for their services, they will also have to be exceptionally efficient.

### Let's accelerate the energy transition together!

Analysis of planned installation of FOWTs indicates that this new type of installation vessel is needed. Large anchor handling vessels available today have limited carrying capacity and are often booked for other maritime operations. Planned windfarm installation would require some 100 vessels of the FLOW-SV type. That is why Damen started the development of the FLOW-SV with valuable input from industry experts like Temporary Works Design (TWD), First Marine Solutions (FMS) and Intermoor. Knowledge about critical mission equipment specifications was provided by Kongsberg and MacGregor.

### Highlights

- › Unique installation method
- › Combination of bollard- and which pull
- › 2x ROV with moonpool
- › Proof loads up to approx. 1,000 tonnes without use of a tensioner
- › IMO Tier III and prepared for methanol



### FLOW-SV 400 Concept

Length approx.	150 m
Beam	32 m
Depth at sides	12 m
Aft working deck	1,585 m <sup>2</sup>
Forward working deck	400 m <sup>2</sup>
Accommodation	90 persons
Bollard pull ahead approx.	400 t
Speed	12-14 kn
Max. proof load approx.	1,000 t





## CAREFULLY COLLECTING VALUABLE DATA

# Survey Vessels

Damen Research Vessels are ideally suited to seismic and hydrographic surveying operations and oceanographic research. They can be arranged to suit specific operations and equipped with features such as laboratories and moon pools. Our Fishery Research Vessels were initially designed to aid sustainable fishing and stock management, but they have evolved into vessels that are

capable of performing oceanographic/hydrographic operations, geological sampling, environmental research and seabed mapping.

Damen's Research Vessels and Survey Vessels are ideal for a variety of tasks offshore including hydrographic operations, acoustics research, pelagic and demersal trawling, plankton, water, environmental and geographical

sampling, oil recovery and emergency towing operations.

Close attention is being paid to the design, construction and outfitting of our Research Vessels and Survey Boats in order to minimise noise and vibration both on board and underwater.

### Highlights

- › Hydrographic and oceanographic operations
- › Environmental and geological sampling
- › Environmental research operations
- › Seabed mapping
- › Monitoring and inspection
- › Light geotechnical work, environmental baseline & seismic surveys
- › Excellent fuel economy at all speeds
- › Tailor-made for specific operations



### RV Range

Length	27.40 - 74.10 m
Speed max	10 - 15 kn
Deadweight	67 - 979 t
Accommodation	16 - 51 persons
Beam	8.20 - 16.40 m





## YOUR RELIABLE PARTNER FOR OFFSHORE CONSTRUCTION

# Offshore Construction

Damen Shipyards Group is leveraging its resources and shipbuilding expertise to become a major force in offshore construction. It sees exciting opportunities in offshore wind, in particular the emerging floating wind sector, but also recognises

the potential in other segments of the offshore energy sector and aquaculture. Damen is now offering a complete construction service including delivery, working to clients' designs and providing fabrication engineering expertise.

## Constructed to the highest standards

### » Primary offshore construction build facility

On the Black Sea, 180 miles from the entrance to the Bosphorus Strait, Damen Shipyards Mangalia in Romania is ideally located close to major shipping routes.

The yard is situated in a non-tidal port, has a moderate dry climate and offers water depths to a maximum of 8 metres at quayside and 6 metres at port entry. The yard occupies a single site of nearly one million square metres and has 1,590 metres of quayside. Three dry docks range in size from 302x48 metres to 360x60 metres with craneage to match. It has a comprehensive range of skills and workshops on site for newbuild and repair projects including high capacity steel and painting facilities.

The docks are outfitted with two 480 tonne gantry cranes and one 1,000 tonne gantry crane as well as nine cranes ranging from 16-120 tonnes.

The extensive steel, machine and piping shops are well equipped and the yard offers 6,500 m<sup>2</sup> of storage area.



YOUR PARTNER IN MAINTENANCE AND CONVERSION

# Damen Shiprepair & Conversion



Damen Shiprepair & Conversion (DSC) has over 100 years of experience in providing maintenance, repair, conversion, and refit services to vessels of almost every kind, all over the world, from its strategic yard locations, at sea or in port. We carry out over 1,500 projects annually, applying the Damen core values of craftsmanship, flexibility, reliability, client focus and a desire to exceed all expectations.

➤ REPAIR ➤ CONVERSION ➤ REFIT ➤ MAINTENANCE ➤ HARBOUR & VOYAGE

## SEAFOX 5

# Upgrade of a jack-up vessel to make it ready for the next generation of wind turbines

**The 151-metre, self-propelled, DP2, jack-up rig *Seafox 5* left the Damen Verolme Rotterdam (DVR) shipyard following a four-month refit in which the boom of its main crane was lengthened to prepare it for a new contract, along with a range of maintenance and other upgrade works. *Seafox 5* is now equipped to undertake offshore wind projects involving the next generation of larger wind turbines in water depths of up to 65 metres.**

Delivered in 2012, *Seafox 5* is owned and operated by jack-up specialist Seafox BV; the world's largest offshore jack-up ASV/offshore support company. 151 metres long and with a beam of 50 metres, she is the largest vessel in the Seafox fleet and has a 1,200 tonne main crane and accommodation for up to 150 personnel. Her arrival at DVR marked her first time in drydock since her initial delivery.

The primary reason for the visit was to lengthen the main boom of her Liebherr crane. This will enable her to fulfil an upcoming contract with GeoSea to install 66 6 megawatt wind turbines at the Merkur wind farm off the coast of Germany. While she was alongside, a series of other works were undertaken including a special periodic survey, testing the jacking system up to 70-metres above sea level, renewing the leg guide wear plates, installing a secondary Sormec crane and a repaint.

*Seafox 5* Rig manager Alex Eijgenraam commented: “*Seafox 5*’s call at the Damen Verolme yard marked a busy and intense period for *Seafox 5*, its crew and office project team. However, all the scheduled works were completed on time and without incident. *Seafox 5* left the yard as good as new and ready for her next assignment for the offshore wind industry. The long experience of Damen Verolme with jack-up rigs has contributed greatly to this result.”

“It was a tight timeframe, but we finished on time and to budget,” added Mark Heuders, Project Manager at DVR. “The key to success was, as always, preparation and cooperation, with careful planning of lead times for each activity and regular progress meetings. It has once again been a pleasure to work with *Seafox*.”

Damen has a longstanding relationship with Seafox, its vessels calling regularly at both DVR and Damen Shiprepair Amsterdam.



## LIFECYCLE SUPPORT

# Damen Services



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

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



### START-UP GETTING YOU GOING

### DEPLOYMENT KEEPING YOU GOING



#### Ship Delivery

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



#### Fleet Support

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



#### Technical Assistance

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



#### Warranty Support

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



#### Training

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



#### Parts & Equipment

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



#### Integrated Logistics Support

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



#### Repair & Conversion

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



#### Technical Documentation

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



#### Services Portal

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

## GLOBAL PRESENCE

# Service Hubs



## » Service Hubs

### Europe

Damen Services Netherlands | Gorinchem  
Damen Services Germany | Hamburg  
Damen Services United Kingdom | Southampton

### Africa

Damen Services Africa | Cape Town  
Damen Services Nigeria | Port Harcourt

### Asia & Middle East

Damen Services Bangladesh | Dhaka  
Damen Services Middle East | Sharjah | Dubai  
Damen Services South East Asia | Haiphong

### Americas

Damen Services Brazil | Rio de Janeiro  
Damen Services Canada | Victoria  
Damen Services Central America | Panama

### Australia

Damen Services Australia | Brisbane

### Worldwide Service Hubs

Damen's Service Hub network grew rapidly over the past few years. At present there are more than ten hubs on five continents. We continuously enhance our services in regions without proximity to a Damen Shipyard, but where Damen vessels are operating. Local presence enables our skilled engineers to respond faster than ever to your needs.



## TRITON PLATFORM

# Damen Digital Solutions

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

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

## EQUIPMENT

# Damen Marine Components



To guarantee our customers the optimal combination of vessel and equipment we design and manufacture a range of essential components that are vital for propulsion, manoeuvring and other critical functions. These include nozzles, winches and steering and rudder systems together with their controls, all of which have a significant impact on our customers' onboard experience.

We base our designs on performance data from the previous ships that we have built, combined with the knowledge and experience within our network of vessel operators, research institutes

and other renowned partners. Together, this input forms the knowledge-base that underpins our premium standard product portfolio.

Our products are suitable for use on Damen and non-Damen vessels alike. As such, in addition to supplying our own global network of shipyards, we also work closely with third-party shipyards around the world. With a focus on quality and maximum user efficiency, Damen Marine Components ensures the optimal performance of our clients' vessels.

## DAMEN SHIPYARDS GROUP

# A broad scope of vessels

**General Summary:** Damen Shipyards Group operates 36 shipbuilding and repair yards, employing 11,000 people worldwide. Damen has delivered over 7000 vessels in more than 100 countries and builds some 175 vessels annually. Due to its unique, standardised ship-design concept, Damen can guarantee consistent quality.

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

**Products & Services:** Damen offers a wide range of products, including tugs, workboats, naval and patrol vessels, high speed craft, cargo vessels, dredgers, vessels for 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 fourteen repair and conversion yards of which ten are located in North West Europe. DSC has more than 40 floating (and covered) drydocks, including the longest at 420 x 80 metres, and the widest at 405 x 90 metres, as well as slopes, ship lifts and indoor halls. Projects range from the smallest simple repairs through to Class compliance, maintenance, complex refits and the complete conversion of large offshore structures. DSC completes around 1,300 repair and maintenance jobs annually, both at yards, as well as in ports and during voyages executed by our dedicated Harbour & Voyage team.





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