



HDPE

SUSTAINABLE MARITIME DURABILITY

DAMEN



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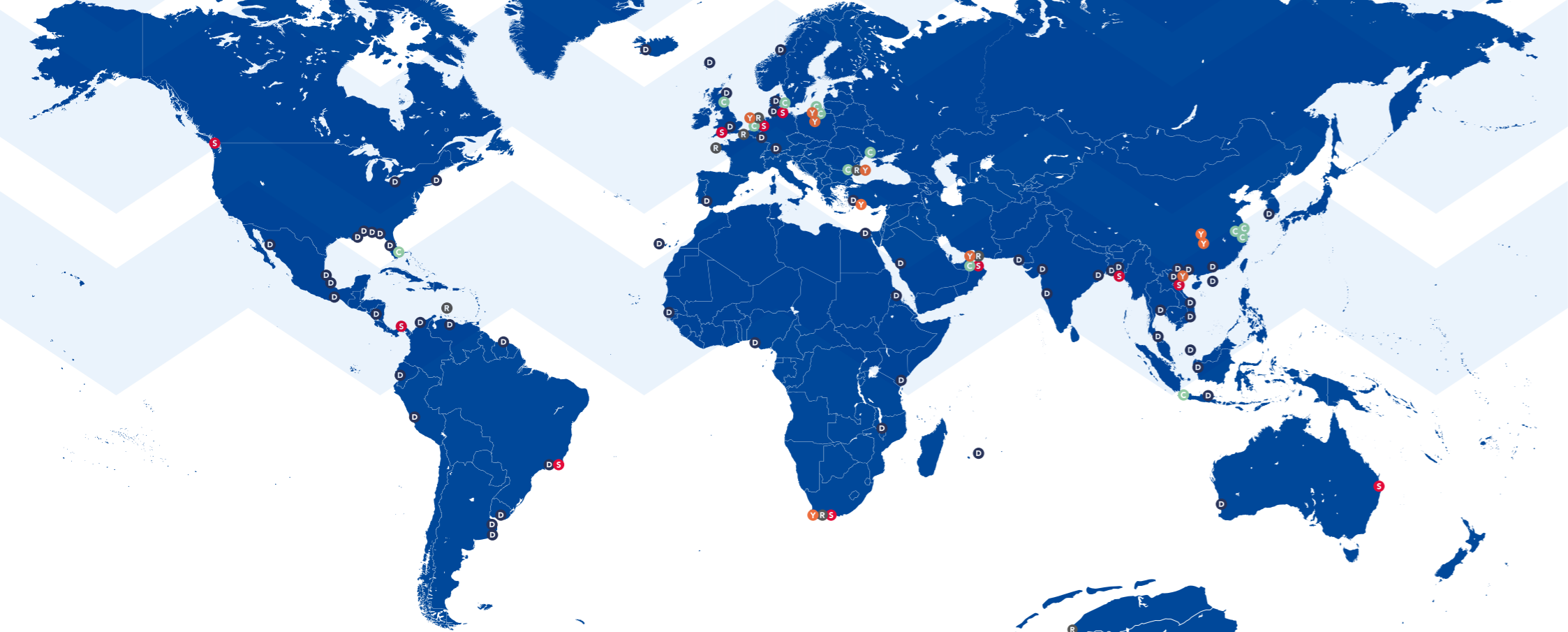
Boosting marine sustainability

Introducing HDPE

High density polyethylene (HDPE) offers a considerable boost to maritime sustainability, being easy to produce from recycled materials and therefore creating a 100% recyclable product. HDPE is also extremely durable, offering a long-life, low maintenance and high impact resistant vessel or jetty.

It's versatile, too, being ideal for the construction of a wide range of workboats as well as infrastructure such as jetties and walkways. In addition, its lightweight nature offers increased vessel efficiency, with the potential to reduce both fuel consumption and emissions.

To ensure maritime access to the numerous benefits offered by HDPE, Damen has established a dedicated company within the Damen Shipyards Group. Damen Compact Crafts (DCCr) develops vessels and marine infrastructure from this innovative material.



GLOBAL PRESENCE AND SUPPORT

Founded in the Netherlands

Damen was founded as a family company in 1927 in Hardinxveld, the Netherlands. Today, we remain a family business, holding true to our original values of Fellowship, Craftsmanship, Stewardship and Entrepreneurship.

With more than 35 newbuild and repair yards, as well as Service Hubs, sales offices and marine components facilities in 20 countries across six continents, we have taken our culture to the world.



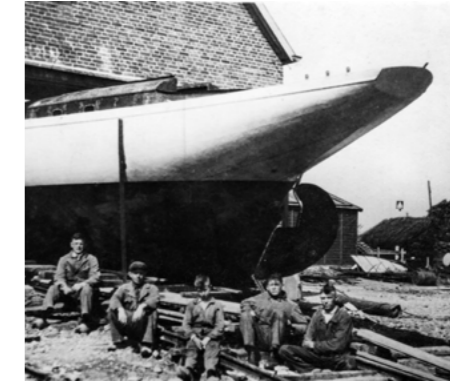
- Y Damen newbuild yard
- R Damen Shiprepair yard
- D Damen Technical Cooperation yard
- S Damen Service Hub
- C Damen Company

THE DAMEN STANDARD

Design & building philosophy

Over the years, Damen has become renowned for its unique philosophy of shipbuilding. Constructing vessels in series was introduced by our Chairman, Kommer Damen in 1969. He saw that this approach would provide our clients with fast access to proven vessels from stock.

We apply this Damen Standard to an extensive range of vessels, constructed at our state-of-the-art yards around the world, as well as third party yards selected by our clients. We offer a wide selection of modular options for our standard vessels, ensuring optimal suitability for the specific requirements of your operations.



BRINGING THE BENEFITS TO MARITIME

The HDPE revolution

What is HDPE?

HDPE is a man-made material renowned for its lightweight strength and durability. Proven successful in a range of industrial applications, Damen is applying HDPE to the construction of small vessels and marine infrastructure. Merits include long life, low maintenance, high efficiency and full recyclability.

Limitless potential

HDPE lends itself to the construction of a wide range of vessels and floating structures. These include water taxis, workboats, patrol vessels and fishing boats, as well as jetties and other floating installations.

Virtual indestructability

Impervious to corrosion, cracking and ultra-violet (UV) light, HDPE offers years of dependability. It is highly resistant to impact with rocks and other sub-surface obstructions, ensuring its suitability for a wide range of operational requirements in any environment.

Safe and easy

The techniques used to manufacture HDPE structures are comparable to those applied to steel and aluminium. However, welding is performed using a special extrusion method, meaning skin and eye protection is not required. HDPE also does not require painting, thereby reducing build time, costs and future maintenance requirements.



Damen HDPE Vessels





Highlights

- › Robust construction (S, C)
- › Lightweight (S, C)
- › Ergonomic design (S, C)
- › Flexible configuration (S)
- › Enhanced crew protection (S)
- › Compact footprint (C)
- › Waterjet or outboard motor propulsion



HEAVY-DUTY VERSATILITY

HDPE Workboat 1204

The Damen HDPE Workboat 1204 is a heavy-duty, versatile vessel. Its wide hull ensures stability as well as suitability for a wide range of operations including patrol, harbour duties, survey and offshore support. Constructed from 100% recyclable HDPE, the vessel represents a step forward for maritime circularity.

It features an ergonomic design with integrated digital controls for advanced navigation, communication and systems monitoring. The vessel is available in two forms; with either a superstructure (S) or console (C), to suit diverse operational needs.

The S model offers enhanced protection, providing shelter and safety for crew in demanding conditions.

The modular character of the superstructure, furthermore, provides for configuration in a variety of roles.

The C version offers a compact footprint, allowing optimal efficiency in deck use, while providing full operational control.

General

Length o.a.	12.9 metres
Beam o.a.	3.76 metres
Draught	0.54 metres
Speed	>31 knots



Highlights

- › Robust construction (S, C)
- › Lightweight (S, C)
- › Ergonomic design (S, C)
- › Flexible configuration (S)
- › Enhanced crew protection (S)
- › Compact footprint (C)
- › Minimal maintenance (S, C)
- › Waterjet or outboard motor propulsion



LONG LIFE, LOW MAINTENANCE

HDPE Workboat 1003

The HDPE Workboat 1003 is a heavy-duty vessel suitable for commercial and utility duties including patrol, port operations, offshore, dredging and rescue and public transport. Constructed from 100% recyclable HDPE, the vessel represents a step forward for maritime circularity.

Its ergonomic designs allows for straightforward operation. The vessel is available with either superstructure (S) or console (C).

The S model offers enhanced protection, providing shelter and safety for crew in demanding conditions. The modular character of the superstructure, furthermore, enables multiple configurations.

The C version offers a compact footprint allowing optimal efficiency in deck use. Both versions are able to withstand harsh weather, UV and impact. The result is a solution that maintains its condition for the long-term with minimal maintenance requirements. The vessel is compatible with inboard or multiple outboard engines for adaptable power needs.

General

Length o.a.	10.4 metres
Beam o.a.	2.9 metres
Draught	0.5 metres
Speed	>30 knots





Highlights

- › Robust construction (S, C)
- › Lightweight (S, C)
- › Ergonomic design (S, C)
- › Flexible configuration (S)
- › Enhanced crew protection (S)
- › Compact footprint (C)
- › Minimal maintenance (S, C)
- › Easily transportable (S, C, see below)



General

Length o.a.	10.2 metres
Beam o.a.	2.4 metres
Draught	0.5 metres
Speed	>28 knots



DURABLE SUSTAINABILITY

HDPE Workboat 902

The HDPE Workboat 902 is a compact vessel designed for tough, commercial operations including patrol, offshore support, dredging and aquaculture operations, naval auxiliary duties, search and rescue and public transport. Constructed from 100% recyclable HDPE the vessel represents a step forward for maritime circularity.

Two versions of the vessel are available; with either superstructure (S) or console (C) configuration.

The S model offers enhanced protection, providing shelter and safety for crew in demanding conditions. The modular character of the superstructure enables configuration for a variety of roles.

The C version offers a compact footprint allowing optimal efficiency in deck use. Both versions are extremely robust, able to withstand harsh weather, UV and impact. The result is a solution that maintains its condition for the long-term with minimal maintenance requirements.

The vessel is compatible with inboard or multiple outboard engines for adaptable power needs.



Highlights

- › Robust construction (S, C)
- › Lightweight (S, C)
- › Ergonomic design (S, C)
- › Flexible configuration (S)
- › Enhanced crew protection (S)
- › Compact footprint (C)
- › Minimal maintenance (S, C)
- › Easily transportable (S, C, see below)



General

Length o.a.	7.9 metres
Beam o.a.	2.3 metres
Draught	0.5 metres
Speed	>30 knots



MID-SIZE VERSATILITY

HDPE Workboat 702

The HDPE Workboat 702 is a tough, durable vessel, with mid-size versatility, ideal for commercial operations such as patrol, offshore support, dredging and aquaculture operations, naval auxiliary duties, search and rescue and public transport. Constructed from 100% recyclable material, the vessel is a step forward in maritime sustainability.

Available with either a superstructure (S) or console (C). The S model offers enhanced protection, providing shelter and safety for crew in demanding conditions. An open deck layout enables diverse equipment setups for harbour, offshore or support duties.

The C version offers a compact footprint allowing optimal efficiency in deck use.

Both versions are able to withstand harsh weather, UV and impact. The result is a solution that maintains its condition for the long-term with minimal maintenance requirements.

Both versions are compatible with inboard or multiple outboard engines for adaptable power needs.



Highlights

- › Lightweight & compact
- › Robust & impact resistant
- › Easily transportable
- › Easily storable
- › Multiple engine options
- › Intuitive, efficient layout
- › Outboard engines (diesel/petrol)



General

Length o.a.	6.68 metres
Beam o.a.	2.5 metres
Draught	0.38 metres
Speed	32 knots



TOUGH IN A TIGHT SPOT

HDPE Workboat 602 Console

The Damen HDPE Workboat 602 Console is a robust, impact resistant vessel well suited to tough marine duties including including patrol, offshore support, dredging and aquaculture operations, naval auxiliary duties, search and rescue and public transport.

The compact nature of the vessel make it the ideal tool for use in ports and other tight spaces.

It can also be placed in a trailer or container for fast response or easy relocation. The practical size of the vessel also means it is easily stored on land or aboard a vessel where space is limited.

The vessel features an open console design with a straightforward, intuitive layout offering maximum deck space and operational visibility.

The design is flexible, too, supporting either inboard or twin outboard motors.



Highlights

- › Multipurpose profile
- › Impressive cleaning capacity
- › Operable by one person
- › Easily transportable
- › Robust construction
- › Low maintenance
- › Available to lease



General

Length o.a.	11.4 metres
Beam o.a.	2.28 metres
Draught	0.6 metres
Speed	6 knots



PRESERVING OUR WATERS

Damen River Scooper 902 HDPE

The Damen River Scooper (DRS) HDPE 902 is a multipurpose cleaning vessel. It is designed for the clearing of plastics, invasive plants and oil spills in harbours, rivers and lakes with minimal disruption to marine and aquatic life.

The DRS 902 HDPE has an impressive capacity, being able to collect 6 tonnes of plastic waste per hour.

Thanks to its advanced filtration system, this includes the removal of microplastics as small as 0.5 millimetres.

The vessel is designed to fit into a container for easy transportation and relocation. It can be efficiently operated by just one person, though offers sufficient space for two crew.

The DRS 902 HDPE is available as a service, based on long- or short-term leasing. In this arrangement Damen will transport and assemble the vessel and provide training to local employees.



Highlights

- › IMO Tier III compliant propulsion
- › Fixed pitch propellers or waterjet systems
- › GMDSS A1/A2 communication suite
- › Electric MOB recovery system
- › Heavy-duty bow fender
- › Comfortable crew cabin



HIGH IMPACT PILOT AND TRANSFER

HDPE Stan Tender 1204

The HDPE Stand Tender is designed to perform pilot duties and crew transfer operations. With a hull constructed from 100% HDPE the vessel is fully recyclable, lightweight and extremely durable with minimal maintenance requirements. Its high impact fender ensures suitability for work in tough conditions.

The vessel features IMO Tier III compliant propulsion and can be operated with either fixed pitch propeller or a waterjet system.

The wheelhouse offers optimal visibility through multiple windows, and provides comfortable seating for up to eight persons.

Reliable communication is ensured with a GMDSS A1/A2 suite. The Stan Tender 1204 HDPE also features an electric man overboard (MOB) recovery system to guarantee safety in the event of an incident.

General

Length o.a.	12.1 metres
Beam o.a.	4.08 metres
Draught	0.9 metres
Speed	>25 knots



Highlights

- › IMO Tier III compliant propulsion
- › Fixed pitch propellers or waterjet systems
- › GMDSS A1/A2 communication suite
- › Electric MOB recovery system
- › Heavy-duty bow fender
- › Comfortable crew cabin



FAST RESPONDER

HDPE Stan Tender 1505

The HDPE Stan Tender 1505 has been designed to perform pilot and crew transfer operations, its high impact fender positioning the vessel well for work in harsh environments. It is a robust vessel with a hull constructed from 100% recyclable HDPE.

It is both lightweight and durable, requiring the bare minimum of maintenance.

It also delivers sustainable performance with its IMO Tier III compliant propulsion, featuring either fixed pitch propeller or a waterjet system.

Comfortable seating is provided in the wheelhouse for up to 14 people. Here the vessel's GMDSS A1/A1 communication suite is also found.

In the event of an incident, the vessel is fully prepared for a quick response with its electric man overboard (MOB) system.

General

Length o.a.	15.2 metres
Beam o.a.	5.2 metres
Draught	1.2 metres
Speed	26.5 knots



Damen HDPE Jetties



DURABLE TUG SOLUTIONS HDPE Jetty 3504

The HDPE Jetty 3504 is specifically designed for mooring tugs.

Produced from 100% recyclable HDPE, it is a lightweight, heavy-duty structure offering exceptional strength and durability. Highly resistant to corrosion, UV, impact and the weather, the HDPE Jetty 3504 requires minimal maintenance and is an ideal solution for tough maritime applications in industrial areas.

The modular design supports multiple configurations as well as a range of add-ons including railings, tenders and work modules, thereby providing flexible multi-functionality. The HDPE Jetty 3008 is an ideal solution for waterbus terminals and jetties, including in industrial areas.

It is produced from 100% recyclable HDPE and is both lightweight and exceptionally strong, making it suitable for easy transportation and relocation.

Highly resistant to impact, as well as UV, weather and corrosion, the jetty is exceptionally durable and requires minimal maintenance – the ideal solution for tough maritime applications in the harshest of environments.

The modular design supports multiple configurations as well as a range of add-ons including railings, tenders and work modules, thereby providing flexible multi-functionality.

Highlights

- › Tug mooring
- › Exceptional durability
- › Corrosion resistant
- › 100% recyclable
- › Minimal maintenance
- › Versatile design



General

Length o.a.	37.7 metres
Beam o.a.	5.8 metres
Draught	0.6 metres
Deck space	153 m ²
Deadweight	58 tons





Highlights

- › Terminal or jetty
- › Modular flexibility
- › Exceptional durability
- › Corrosion resistant
- › 100% recyclable
- › Minimal maintenance



General

Length o.a.	34.66 metres
Beam o.a.	8.27 metres
Draught (empty)	0.45 metres
Deck space	192 m ²
Deadweight	20 tons



Highlights

- › Terminal or jetty
- › Modular flexibility
- › Exceptional durability
- › Corrosion resistant
- › 100% recyclable
- › Minimal maintenance



General

Length (moulded)	32.2 metres
Beam (moulded)	5.5 metres
Draught	0.5 metres
Deck space	116 m ²
Deadweight	42 tons



TOUGH TERMINAL HDPE Jetty 3008

The HDPE Jetty 3008 is an ideal solution for waterbus terminals and jetties, including in industrial areas.

It is produced from 100% recyclable HDPE and is both lightweight and exceptionally strong, making it suitable for easy transportation and relocation. Highly resistant to impact, as well as UV, weather and corrosion, the jetty is exceptionally durable and

requires minimal maintenance – the ideal solution for tough maritime applications in the harshest of environments.

The modular design supports multiple configurations as well as a range of add-ons including railings, tenders and work modules, thereby providing flexible multi-functionality.

FOR THE HARSHTEST OF CONDITIONS HDPE Jetty 3006

The HDPE Jetty 3006 is an ideal solution for waterbus terminals and jetties, including in industrial areas.

The jetty is designed to withstand the harshest of conditions. Produced from 100% recyclable HDPE, it offers an eco-conscious solution free from rot, rust and corrosion, thereby ensuring minimal maintenance and cost implications.

Its compact nature ensures an easy installation, even in locations with a small footprint or limited access.

The modular design supports multiple configurations as well as a range of add-ons including railings, tenders and work modules, thereby providing flexible multi-functionality.



Highlights

- › Modular flexibility
- › Road-transportable
- › Exceptional durability
- › Corrosion resistant
- › 100% recyclable
- › Minimal maintenance
- › Rapid assembly



General

- Length (moulded) 12 metres
- Beam (moulded) 3.3 metres
- Design draught 0.22 metres
- Deck space 33 m²



Highlights

- › Modular flexibility
- › Containerised
- › Exceptional durability
- › Corrosion resistant
- › 100% recyclable
- › Minimal maintenance
- › Rapid assembly



General

- Length (moulded) 6.25 metres
- Beam (moulded) 1.96 metres
- Design draught 0.2 metres
- Deck space 10 m²



COMPACT CIRCULARITY

HDPE Jetty 1203

The 12-metre modular HDPE Jetty 1203 is a robust, durable, low maintenance solution for commercial maritime applications.

Produced from 100% recyclable HDPE, the jetty offers circularity with no possibility of toxic leaching.

Able to withstand impact, UV, and harsh weather, providing a long-lasting solution with minimal maintenance requirements.

On arrival at location, the jetty can be simply and rapidly installed, in even the tightest of spaces, ensuring suitability for remote locations and small harbours.

The modular design supports multiple configurations as well as a range of add-ons including railings, tenders and work modules, thereby providing flexible multi-functionality.

RESISTANT TO ROT, RUST AND CORROSION

HDPE Jetty 602

The 6-metre HDPE Jetty is a robust, durable, low maintenance solution for commercial maritime applications.

The jetty offers increased sustainability for your operations, being produced with 100% recyclable materials and ensuring no risk of toxic leaching. Resistant to rot, rust and corrosion, the HDPE Jetty offers years of low-maintenance, low-cost operations.

It is lightweight and compact, offering both straightforward transportation in a standard container, and easy installation in the tightest of spaces, including small harbours.

The modular character of the jetty means it can be configured in multiple ways, offering the possibility of expansion into large floating systems and walkways.

It also supports a range of add-ons including railings, tenders and work modules, thereby providing flexible multi-functionality.

FINANCIAL SERVICES

Financing and leasing

Damen Financial Services (DFS) offers comprehensive maritime solutions, tailored to the varying requirements of our clients.

Financing

Financial Solutions

DFS' core proposition is to stimulate commercial deployment of sustainable maritime products, such as low-zero emission vessels, through the provision of green financing solutions.

We will arrange a financing solution for you which matches planned operations. One that will, for example, be cost efficient enough to ensure you the flexibility to invest in other business priorities. Or, for a government body, a solution that facilitates the meeting of policy objectives over a number of years. In addition, for a start-up company, the initial challenging investments can be realised by Damen's efforts to attract finance on your behalf.

In case of smaller transactions, DFS can act as lender in a Supplier's Credit Facility Agreement. Larger or more complex contracts are arranged via a Buyer's Credit Facility. Damen assists you in achieving a direct agreement between a financing institution and you as the borrower.

Leasing

LeaseCo

Leasing arrangements are offered via Damen Ship Lease Group, a private investment fund of the Damen family which acts as a kickstarter to many companies. It offers attractive leases to support company growth. Damen Ship Lease Group consists of various leasing vehicles covering Europe, Middle East, Africa and Australia.

DFS Lease

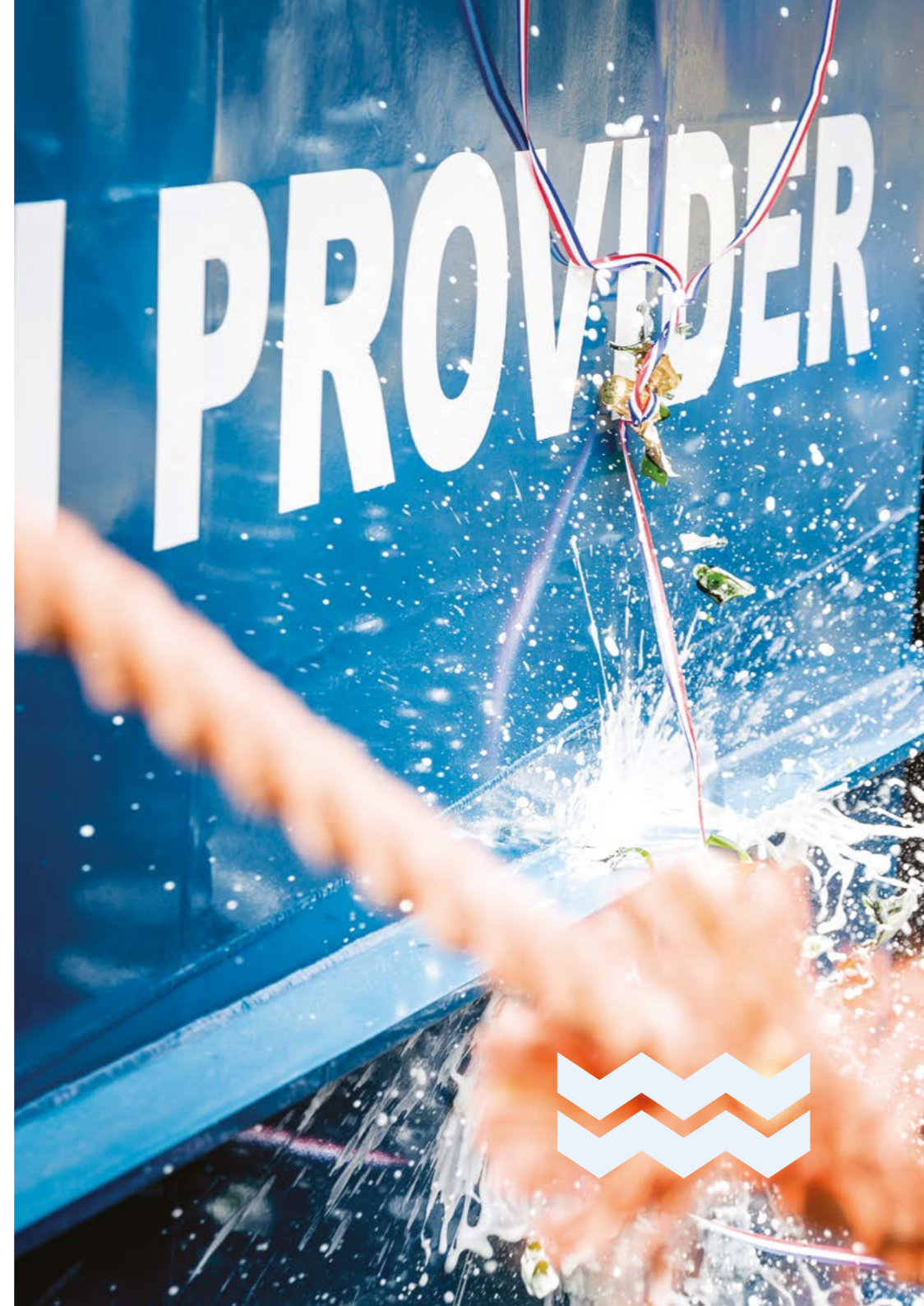
DFS Lease aims to stimulate market introduction of new, sustainable technologies. It offers flexible solutions with the potential of a JV combinations.

Joint ventures

DFS also participates in joint venture partnerships, together with our clients, in projects requiring close collaboration.

Damen Marine Services

Our charter fleet consists of a wide range of workboats which can be provided on a time charter or bareboat basis. The time charter vessels are multi-functional workboats which can be used for towing, dredging, surveys, marine construction work, anchor handling, oil & gas support and for the transfer of personnel. Our bareboat vessels consist of state-of-the-art tugs, workboats, and other marine assets.



KEY TO HDPE ADVANCEMENT

Collaboration

When it comes to advancing use of HDPE in maritime solutions, collaboration is key. DCCr participates in a number of joint projects, with both other Damen teams and third parties.

Together with Damen RD&I, we partnered with CEAD to construct the first 3D-printed HDPE workboat – the HWB 1003, to investigate how 3D printing can contribute to faster, flexible, more sustainable shipbuilding.

Additionally, together with Damen Digital Solutions and Zeabuzz, we are working on the conversion of an HDPE workboat – HWB 702 – into an autonomous unmanned surface vessel (USV) within a timespan of just two months.

For this, we are drawing on lessons learned during the Damen Integrated Autonomous Solutions (DIAS) programme to develop a cost-effective unmanned solution incorporating 3D printing techniques.

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 1,500 vessels have been produced locally in more than 60 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.

»» Proven design, proven technology, built at your local yard.



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

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.



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.



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.



Integrated Logistics Support

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



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.



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.



Repair & Conversion

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



MyDamen Services Portal

The MyDamen 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.

DAMEN COMPACT CRAFTS

Innovating in HDPE

Damen Compact Crafts (DCCr) is specialised in the development of HDPE workboats and jetties. Our vessels are suited to a variety of operations including patrol, coastguard, passenger transportation, survey, dredging and harbour support, while our jetties can be used for a wide range of applications such as mooring facilities, walkways and temporary barriers.

Our portfolio is based on the combination of Damen's traditional shipbuilding know-how and craftsmanship with innovative materials and production methods.

Our modern facilities are equipped for 3D milling, welding, assembly and quality control. Here, DCCr undertakes a wide range of activities. This includes development and testing of prototype models, integration of 3D printed components and collaboration between designers, engineers and technicians to facilitate accelerated innovation.

This approach results in the smart, efficient production of versatile maritime solutions. The numerous benefits associated with using HDPE include increased durability, high impact tolerance, corrosion resistance, and minimal maintenance requirements – the ideal solution for use in harsh maritime environments. And, with HDPE being 100% recyclable, there is the added advantage of increased circularity.

Colophon

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