ICE-CLASS WORKBOATS

ASD TUGS – STAN TUGS – SHOALBUSTERS
ICE COLD
SHIP-HANDLING TOOLS

With a strong focus on safety, reliability, sustainability and efficiency, these are the robust vessels for your operation.
THE ICE HERITAGE

Building on the experience of over 70 Damen built Ice-Class Workboats, our Ice-Class Workboats are equally at home whether they are operating in the Black Sea, the Baltic or the North Atlantic Ocean.
TUGS ON THE ROCKS

A strong hull, well above Class requirements, with scantlings complying both with Russian Maritime Register Shipping and Finnish Swedish regulations.

UNRIVALLED OPERABILITY

A redesigned hull shape, additional heating and cooling systems, insulation and re-engineering of critical components ensure the Damen standard of excellence in the most challenging conditions. Damen Ice-Class Workboats are suited to a wide range of tasks including ice breaking, towing & pushing, ice management, fire-fighting and rescue operations.
Damen Ice-Class Workboats benefit from broad knowledge gathered during ongoing research programmes within the Damen Shipyards Group. Damen works alongside world renowned research institutes, universities and companies.

Extensive validation tests were performed at Aker Arctic, the results of which provided input for both the development of these vessels. The workboats were developed with a strong emphasis on optimisation via computational fluid dynamics (CFD).

Realising that our customers have to outperform in their operations, Damen is committed to continuously improving its products and services. The result is quality, based on knowledge, experience, a controlled production process and craftsmanship, from concept design to the production board detail. Quality is a characteristic for which Damen Ice-Class Workboats have long been renowned, a reputation we intend to maintain, now and in the future.

Our offer is a robust vessel that is simple to operate and easy to maintain, all of which means an asset which holds its value throughout its lifetime.

HIGH RESISTANT ICE COATING

Our Ice-Class Workboats are provided with abrasion resistant coating designed for operation at temperatures as low as –50°C. Ensuring that our vessels benefit from abrasion resistance, low frictional resistance and low ice adhesion each contributing significantly to reducing operation costs and increasing efficiency.

QUALITY IS IN THE DETAILS

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## ICE-CLASS TUG DESIGN IN DETAIL

The Damen Ice-Class Tugs feature a hull optimised for operations in both ice and open water, with designs evolved over construction of more than 70 Ice-Class tugs.

The vessels feature a heavy full construction for both ahead and astern in ice-covered waters, with, for example, mortise and tenon hull side to avoid risk of freezing. Comfort is assured with heavily insulated thruster and engine rooms and accommodation and low noise and vibration are keen focus of the designs. Heats recovered from main engine cooling water for maximum efficiency.

### STAN TUGS

**Damen Stan Tugs** are designed for operations in harbours and open waters and can undertake a wide variety of roles. As well as towing, mooring and manoeuvring vessels in both pull and push modes, with the addition of proven Damen options they can be equipped for support activities such as firefighting, oil spill control, buoy handling and rough towing.

### ASD TUGS

The Damen ASD Tug class offers excellent ship-handling characteristics both in the open sea and harbours of all sizes. They are also ideal for tasks such as ice breaking, ice management and firefighting that require power and manoeuvrability, along with salvage, busy handling and spill control.

<table>
<thead>
<tr>
<th>Ice-Class</th>
<th>Stan Tug 1606 Ice</th>
<th>Stan Tug 1907 Ice</th>
<th>Stan Tug 2303 Ice</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LENGTH</strong></td>
<td>16.7 m</td>
<td>19.5 m</td>
<td>22.5 m</td>
</tr>
<tr>
<td><strong>BREADTH</strong></td>
<td>5.9 m</td>
<td>3.4 m</td>
<td>3.8 m</td>
</tr>
<tr>
<td><strong>DEPTH</strong></td>
<td>2.5 m</td>
<td>2.8 m</td>
<td>2.8 m</td>
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<tr>
<td><strong>BOLLARD PULL AHEAD</strong></td>
<td>163 kN</td>
<td>1,492 kN</td>
<td>2,033 kN</td>
</tr>
<tr>
<td><strong>POWER</strong></td>
<td>894 bkW</td>
<td>1,12 kJ</td>
<td>118 kJ</td>
</tr>
<tr>
<td><strong>SPEED AHEAD</strong></td>
<td>11.2 kn</td>
<td><strong>CLASS</strong></td>
<td><strong>CLASS</strong></td>
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<tr>
<td></td>
<td>1D</td>
<td><strong>CLASS</strong></td>
<td>1C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ice-Class</th>
<th>ASD Tug 2609 Ice</th>
<th>ASD Tug 3010 Ice</th>
<th>ASD Tug 3413 Ice</th>
<th>ASD Tug 3914 Ice</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LENGTH</strong></td>
<td>26.54 m</td>
<td>29.8 m</td>
<td>33.70 m</td>
<td>39.74 m</td>
</tr>
<tr>
<td><strong>BREADTH</strong></td>
<td>9.54 m</td>
<td>10.4 m</td>
<td>10.4 m</td>
<td>12.89 m</td>
</tr>
<tr>
<td><strong>DEPTH</strong></td>
<td>4.30 m</td>
<td>4.6 m</td>
<td>4.6 m</td>
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</tr>
<tr>
<td><strong>BOLLARD PULL AHEAD</strong></td>
<td>353 kN</td>
<td>2,460 kW</td>
<td>2,460 kW</td>
<td>80 kN</td>
</tr>
<tr>
<td><strong>POWER</strong></td>
<td>1,280 kW</td>
<td>3,065 kW</td>
<td>6,800 kW</td>
<td>9400 kW</td>
</tr>
<tr>
<td><strong>SPEED AHEAD</strong></td>
<td>12.9 kn</td>
<td>12.9 kn</td>
<td>12.6 kn</td>
<td>13.5 kn</td>
</tr>
<tr>
<td></td>
<td>1A</td>
<td>1A</td>
<td>1A</td>
<td>1A</td>
</tr>
</tbody>
</table>

### ICE-CLASS TUGS & ASD TUGS

**HEATED WHEELHOUSE WINDOWS**

Heat-proof windows for extended viewing comfort.

**DAMEN SAFETY GLASS**

High impact resistance (cat. P3A).

**FIRE FIGHTING**

Optionally equipped with fire fighting pump.

**HEAVY DUTY TOWING WINCH**

Low maintenance and hydraulically driven.

**HEATED WHEELHOUSE WINDOWS**

Optimal view in all conditions.

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THE DAMEN
ICE-CLASS SHOALBUSTER
DESIGN IN DETAIL

LOW AND EASY MAINTENANCE
Smooth and integrated superstructure details prevent high expenses for maintenance and painting.

MARINE CRANE
High capacity marine crane for all kinds of duties.

DAMEN TOWING WINCH
A hydraulically powered, double drum winch with a massive maximum brake holding load of 150 tonnes.

SPACIOUS DECK
Open, clean deck layout with no obstructions for safe working conditions.

NAVIGATION / COMMUNICATION
Standard GMDSS A3 navigation and communication equipment.

WHEELHOUSE
A spacious wheelhouse with integrated wheelhouse console and all control functions.

PUSHBOW
Pushbow with good fendering and integrated bowthruster. The pushbow is also giving excellent course stability when sailing astern.

MARINE CRANE
High capacity marine crane for all kind of duties.

LOW AND EASY MAINTENANCE
Closed and integrated construction details result in reduced corrosion and easy-to-paint surfaces.

FENDERING
Heavy steel sheerstrake of 400x20 mm with steel fenderpipe.

POWERFUL PROPELLERS
Protected by nozzles and a protection pipe, rudders with soleplate and pintle for avoiding wires. Positioned sufficiently forward of the sternroller for safe anchorhandling operations.

THE Damen Shoalbuster Ice-Class series offers a comprehensive range of workboats based on thoroughly tested, up-to-date designs built from high-quality standardised equipment.

The Shoalbuster design features a high bollard pull and increased stability for diverse operations across a wide range of working environments.

The standard vessel comes equipped with anchor-handling and towing winch, high-capacity marine crane, stern thruster, bow thruster, tugger winch, GMDSS A3-communication and a large capacity for fuel oil and fresh water.

ICE-CLASS
SHOALBUSTERS

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ICE-CLASS

<table>
<thead>
<tr>
<th>SHOALBUSTER ICE-CLASS</th>
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<tbody>
<tr>
<td>Sbu 2709 Ice 1C</td>
</tr>
<tr>
<td>LENGTH</td>
</tr>
<tr>
<td>27.02 m</td>
</tr>
<tr>
<td>BEAM</td>
</tr>
<tr>
<td>9.10 m</td>
</tr>
<tr>
<td>DEPTH AT SIDES</td>
</tr>
<tr>
<td>3.6 m</td>
</tr>
<tr>
<td>MAXIMUM DRAFT</td>
</tr>
<tr>
<td>3.2 m</td>
</tr>
<tr>
<td>DISPLACEMENT</td>
</tr>
<tr>
<td>320 t</td>
</tr>
<tr>
<td>BOLLARD PULL AHEAD</td>
</tr>
<tr>
<td>33.2 t</td>
</tr>
<tr>
<td>POWER</td>
</tr>
<tr>
<td>1,940 bkW</td>
</tr>
<tr>
<td>SPEED AHEAD</td>
</tr>
<tr>
<td>11.0 kn</td>
</tr>
<tr>
<td>CLASS</td>
</tr>
<tr>
<td>1C</td>
</tr>
</tbody>
</table>

| Sbu 2711 Ice 1B       |
| LENGTH                |
| 27.05 m               |
| BEAM                  |
| 10.50 m               |
| DEPTH AT SIDES        |
| 4.25 m                |
| MAXIMUM DRAFT         |
| 3.5 m                 |
| DISPLACEMENT          |
| 418 t                 |
| BOLLARD PULL AHEAD    |
| 47.0 t                |
| POWER                 |
| 2,610 bkW             |
| SPEED AHEAD           |
| 11.0 kn               |
| CLASS                  |
| 1B                    |

| Sbu 3311 Ice 1B       |
| LENGTH                |
| 33.43 m               |
| BEAM                  |
| 10.50 m               |
| DEPTH AT SIDES        |
| 4.70 m                |
| MAXIMUM DRAFT         |
| 3.4 m                 |
| DISPLACEMENT          |
| 508 t                 |
| BOLLARD PULL AHEAD    |
| 50.0 t                |
| POWER                 |
| 2,850 bkW             |
| SPEED AHEAD           |
| 11.0 kn               |
| CLASS                  |
| 1B                    |

| Sbu 3312 Ice 1C       |
| LENGTH                |
| 33.77 m               |
| BEAM                  |
| 12.00 m               |
| DEPTH AT SIDES        |
| 4.20 m                |
| MAXIMUM DRAFT         |
| 3.1 m                 |
| DISPLACEMENT          |
| 540 t                 |
| BOLLARD PULL AHEAD    |
| 57.0 t                |
| POWER                 |
| 2,910 bkW             |
| SPEED AHEAD           |
| 11.0 kn               |
| CLASS                  |
| 1C                    |
Paramount to safe operation are good, predictable handling characteristics, along with high stability. This comes courtesy of the vessels’ low-profile, wide-beam combination.

Damen Ice-Class Workboats are designed according to the latest stability rules – even before they enter into force – setting new standards for safe operations.

Our Ice-Class Workboats are the result of in-depth R&D conducted in consultation with the towage industry. Damen has long held the belief that listening to its clients is the best way to ensure that the vessels it builds are fit for purpose.

Further to this, the Ice-Class Workboat draws on the experience of Damen vessels already proven in operation. Over 70 Ice-Class Workboats have been delivered in the last decade.

The Ice-Class Workboats benefit from Damen’s philosophy of standardised shipbuilding, drawing on long experience and the continual improvement of the Damen range.

In its design and construction, Damen applies proven, modular systems and equipment. The end result is a reliable, efficient vessel, guaranteeing the latest technological improvement and offering commonality and familiarisation with other vessels from the Damen range.

Fuel and other tanks are kept free from the hull in order to avoid freezing and reduce a risk on spilling in case of damage. Thrusters are well protected by ice knives.
Sustainability is a core philosophy at Damen and our Ice-Class Workboats are no exception. They feature heavy insulation throughout, including heated double-glazing, leading to low levels of energy usage. Furthermore, the vessels utilise heat recovered from the cooling process for maximal efficiency. On request we can equip our vessels with the Damen Marine NOx Reduction System.

Thorough engineering, endless testing and refining designs resulted in a range of Ice-Class Workboats able to perform in extreme cold environments. This evolution has led to a solution that is both smart and simple, facilitating a smooth flow of work and optimised ergonomics for captain and crew.

The Ice-Class Workboat is also a pleasant place to work, thanks to extreme low levels of noise and vibration. Numerous steps have been taken in the development of the vessel to achieve the lowest possible level by extensive sound and vibrations calculations and heavy duty execution.

Following the Damen philosophy of standardised shipbuilding, the Ice-Class Workboat reduces spare parts and maintenance requirements to a minimum via application of modular systems and components. The vessel consumes significantly less fuel than a comparable vessel, thanks to its efficient hull form and resultant smooth lines.

The vessels’ versatility also delivers cost-effectiveness as the Ice-Class Workboats can be applied to numerous roles, including seagoing towage and salvage, without compromising on their compact, efficient capabilities in harbour. Closed fresh water cooling system via keel cooling channels, resulting in a maintenance free system.

A CLEAN AND QUIET VESSEL

VESSELS THAT CUT COSTS

EFFICIENCY

Thorough engineering, endless testing and refining designs resulted in a range of Ice-Class Workboats able to perform in extreme cold environments.

This evolution has led to a solution that is both smart and simple, facilitating a smooth flow of work and optimised ergonomics for captain and crew.
Whether assisting, towing or performing salvage operations, it is essential for Ice Class Workboats feature clean, spacious working decks.

**SAFE SPACE**

The highest incident rates on board workboats are those associated with slipping and tripping. Damen has taken every opportunity to reduce these risks on an absolute minimum. The result is a spacious, uncluttered working area with closed, smooth surfaces omitting all equipment not essential for towing operations. Simple and effective.

Anti-slip paint on deck, coupled with a bulwark height of 1.1 metres gives crew confidence when working in all conditions.

**A ROBUST WORKING AREA**

Stainless steel is applied to parts of the vessel that are vulnerable to wear and tear. Additionally, hoses, cables and pipes are well protected on deck for operations in extreme cold environments.

**THE WORK DECK**

**OPTIMAL WORK SPACE**
Damen Ice-Class Workboats focus on reliability and low maintenance. Utilising the wide hull, the engine room is extremely spacious and all equipment necessary for regular operation has been positioned above floor level within easy reach.

**STANDARDISED SYSTEMS**
Damen has used standardised, modular systems with globally available components throughout, again ensuring any maintenance requirements can be met with the least possible disruption.

**QUALITY THAT LASTS**
Throughout the vessel, durable systems and components are used, matching the environment they operate in. Keeping seawater out of the engine room is of paramount importance to a reliable, durable operation. Therefore, on the Ice-Class Workboats, cooling is taken care of with a closed freshwater cooling system, a proven method also to be found in all Damen vessels.

The exclusion of a ballast water system is a further example of this. In vessels operating in harsh conditions, a smart tank layout in combination with a hull form capable of safe operation at all loading conditions makes a Difference.

**ENGINE ROOM**

**THE HEART OF THE VESSEL**

Damen Ice-Class Workboats house on reliability and low-maintenance. Utilising the wide hull, the engine room is extremely spacious and all equipment necessary for regular operation has been positioned above floor level within easy reach.

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**UNMANNED ENGINE ROOM**

Full control of the engine room is possible from the wheelhouse and main deck when the tug is carrying out an operation, so that the crew can monitor the alarms and analyse any problem in maximum safety.
The wheelhouse of the Ice-Class Workboat is a cutting edge control centre, ergonomically designed for safe, efficient operation.

**VIEW ON YOUR OPERATION**

Visibility from the wheelhouse is optimised in all directions, ensuring the operator of distraction-free control. The wheelhouse is fitted with double glazing to ensure comfort during operations.

**COMFORT AND ERGONOMICS**

Ergonomically designed, with easy-to-use consoles, with operating panels with controls, monitoring and alarms, as well as nautical data, main engines, winch and auxiliary control.

**ALWAYS IN CONTROL**

All the control systems are duplicated, giving full redundancy in the event of failure. With standby systems ready to take over in the event of component failure or damage, continuing safety is assured with the crew retaining full control of the vessel should there be an emergency.

**EVERYTHING TO HAND**

Next to the propulsion control, an integrated push-to-talk button connects to the VHF. When desired the winch can be controlled by foot pedals, facilitating all operational needs from a single position. With this vessel the captain can stay ‘hands on’ at all times.

**CLEAR, SUPPORTIVE SCREENS**

The consoles and their display are the result of continuing in-depth R&D and client feedback. The screens are clear, supporting the captain by showing what he needs during operation, while allowing operators to select more detailed data when desired.

**QUICK REACTING POWER**

The wheelhouse of the Ice-Class Workboat is a cutting edge control centre, ergonomically designed for safe, efficient operation.
The safety and comfort of the Ice-Class Workboats go beyond the working space.

Noise and vibration have been minimised and large windows provide maximal daylight entry.

A PLACE TO LIVE

The presence of natural light is an important factor in making the crew feel at home. At the same time, darkening curtains are provided to ensure sleep during daytime when necessary.

KEEPING WARM IN SUB-ZERO CONDITIONS

However low the temperatures may be outside the hull, Damen Ice Class Workboats ensure a warm welcome for crew members within. Under-floor heating in the accommodation ensures an even distribution of heat while comprehensive insulation keeps outside heat out. Heaters are available to provide extra warmth and USB charger outlets are provided close to the beds to allow charging.

DAILY CREW COMFORT

To ensure day-to-day crew comfort, Damen has paid very close attention to the accommodation areas, including the fine details. Examples of this can be seen in the inclusion of telephone shelving and USB portals close to the beds to allow charging.
Damen has long kept a close eye on the increasing pace of digitalisation. Damen Digital is the gateway where all data from systems and equipment aboard Damen vessels is channelled. This includes the remote monitoring of fuel consumption patterns. Remote monitoring can also shed light on equipment performance, to ensure the correct equipment is used for a given application. Digital monitoring paves the way to more precise scheduled maintenance planning, extending the periods between maintenance based on accurate monitoring of, for example, fuel and oil quality. Similar practice has had much success in the automotive industry where such in-depth knowledge of components and parts wear has led to demonstrable cost savings and maximised uptime.

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DAMEN TECHNICAL COOPERATION
THINK GLOBAL, ACT LOCAL

Damen can assist customers with building Damen vessels locally via Damen Technical Cooperation (DTC). This highly flexible option results in a valuable transfer of technology and enables owners to enjoy Damen quality combined with the convenience of local production. Since DTC was established, Damen has built over 1,000 vessels locally in over 70 countries.

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

INTEGRATED LOGISTICS SUPPORT

- Reliability, availability and maintainability analysis
- Reliability centered maintenance analysis
- Logistic support analysis

DELIVERY

- Warranty support
- MyDamen
- Commissioning

SETTING STARTED

COMBINED SERVICES PACKAGE

- Ship delivery
- Initial spare parts package
- Vessel operating manual
- Training
- Maintenance management solutions

KEEPING YOU GOING

LONG-TERM SERVICE AGREEMENT

- In-house services
- Fleet support parts, maintenance and repair
- Consulting
- Conversion
- Refit

INNOVATION & DEVELOPMENT

We respond to the rapidly changing world to meet the constant development of new systems. Damen is a pioneer in introducing new technology and services. Damen is ready to support our clients in managing their asset and to keep it running optimally.

WARRANTY SUPPORT

Customers receive utmost importance via Warranty support. Damen has service teams in all major areas worldwide to support its clients. As fast as necessary, access to Damen via “MyDamen” is always available. By a Damen technician, regardless of whether there is an issue or not.

WORLDWIDE SERVICE HUBS

To fulfill our customers’ need for short reaction times and an understanding of local languages and cultures, Damen has created multiple Service Hubs. These Service Hubs are tailored to regional demands and are in close contact with our local reps around the world.

INTEGRATED LOGISTICS SUPPORT

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

GETTING STARTED

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

INTEGRATED LOGISTICS SUPPORT

Kaplan Center for International Finance (KCFI) is a premier platform for the advancement of global finance education.

DAMEN SERVICES NEVER SET SAIL ALONE

Damen Services is your partner in managing your assets and keeping them in optimal condition. Damen Services offers a wide range of services, from integrated logistics support to long-term service agreements, to ensure that your vessel is always ready for operation.

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

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Damen Shipyards Group operates 36 shipbuilding and repair yards, employing 12,000 people worldwide. Damen has delivered more than 6,500 vessels in more than 100 countries and delivers some 175 vessels annually to customers worldwide. Based on its unique, standardised ship-design concept Damen is able to guarantee consistent quality.

Damen’s focus on standardisation, modular construction and keeping vessels in stock leads to short delivery times, low ‘total cost of ownership’, high resale value and reliable performance. Furthermore, Damen vessels are based on thorough R&D and proven technology.

Damen offers a wide range of products, including tugs, workboats, naval and patrol vessels, high speed craft, cargo vessels, design vessels for the offshore industry, ferries, pontoons and superyachts.

For nearly all vessel types Damen offers a broad range of services, including repair, maintenance, major refit, conversion, as well as the number of shipbuilding know how. Damen also offers a variety of marine components, such as nozzles, rudders, winches, anchors, anchor chains and steel works.

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