Decades of dredging and shipbuilding knowledge have come together in a product series: the Damen Cutter Suction Dredgers (CSD). These dredgers offer a reliable operation at the lowest cost per cubic metre of dredged material - because for us that’s what it’s all about.

It’s been our design strategy from the start and what drives the continuous development of our products. It’s what motivates the repair, maintenance and training services we provide. It’s what stimulates us to always offer you the solution best able to tackle your challenges.
With 33% of the Netherlands below sea level, the Dutch have centuries of experience in water management. Over the years, the inhabitants of the country have reclaimed significant portions of land from the sea and inland lakes. Damen takes pride in keeping this Dutch heritage alive with its quality dredging products, services and shared knowledge.
Damen Dredging Equipment, based in Nijkerk, the Netherlands, has been in the dredging business for more than 80 years. Over the decades it has established itself as a highly efficient production facility, but also as a dedicated dredging knowledge centre.

THE DREDGING EXPERIENCE
In Nijkerk, visitors can take a tour through The Dredging Experience, an interactive means of familiarisation with the basic principles of the dredging process.

A PIECE OF HISTORY
Picture of the Benjamin, in 1950. This was one of the first cutter suction dredgers to be built in Nijkerk.
Damen is committed to the continuous improvement of the safety, health and welfare of all people working under our sphere of influence. We are aware that the products we make have the potential to impact the environment. Therefore, we strive towards optimised working practices to ensure this is minimised. We also aim to deliver products with a long lifespan and high quality to enable the sustainability of our clients' business models.

A SELECTION OF OUR INITIATIVES

Latest engines according to IMO regulations: fuel efficient and minimum NO$_x$ / CO$_2$ emissions.

Dredgers are prepared for the installation of an SCR-system meeting IMO Tier III requirements.

The equipment used on our dredgers means no grease is required for lubrication. For example, the dredge pump shaft sealing is done via a mechanical sealing arrangement.
SAFETY

SAFETY IS ALWAYS OUR FIRST PRIORITY

The welfare of the people working for us and with us is paramount – it comes before all other objectives. Being a family-owned company, we oblige ourselves to achieve an incident-free workplace. Every day. Everywhere. We comply with and, where practical, exceed our legal duties concerning health and safety. We maintain effective health and safety management plans – these are crucial in preventing injury and ill health.

A SELECTION OF OUR INITIATIVES

Optimal working environment
The control cabin is well protected from noise, being mounted on vibration dampers and featuring double glazing, and isolated panelling. To create the optimal working environment, the cabin is equipped with a heating and air-conditioning unit and windows are tinted to protect against Sun reflection.

Non-radioactive concentration meter: Damen is making use of a proven, optional system to measure mixture density with a non-radioactive sensor. This meter is combined with a velocity meter. The combination gives a very accurate report of the dredger’s performance.

Damen has developed a unique dredge pump cover - the patented Dynacover. Made of strong, light Dyneema fibres, the Dynacover can be zipped effortlessly around any pump to provide protection.
Damen has delivered over 250 CSDs worldwide. This success has made our dredger an industry standard. More importantly, it gives you confidence in its performance capabilities in a wide range of operational and environmental conditions, ranging from arctic to desert climate.
We know that minimising downtime and maintenance costs is essential for your business. Therefore, Damen has designed a CSD series that is robust on all fronts, providing you with a product that lasts and that offers a high resale value.

Furthermore, the easy maintainability and worldwide availability of inevitable wear parts contributes to the lowest production-downtime ratio in the industry.
1.  Strength has never been compromised in the design, as shown by pictured A-frame with full penetration welds.

2.  Inspection hatches have been placed for servicing in areas where access would otherwise be difficult.

3.  The coupling system of the CSD pontoons is smart and sturdy and makes use of generic bolts for easy handling. Pontoons have plate thicknesses that exceed class requirements.

4.  The teeth of the cutter head can easily be replaced when worn out.

5.  All essential components, like the dredge pump and gearbox pictured here, are equipped with hoisting eyes for easy and quick maintenance.
WHATEVER THE JOB...
The CSD is suitable for the maintenance of ports, channels or water reservoirs, sand winning for building projects or land reclamation as well as the removal of polluted soils.

CAPITAL DREDGING
Creating new civil works, such as harbour basins, canals or new land, by means of dredging in virgin soil.

ENVIRONMENTAL DREDGING
Removing polluted sediments from rivers, harbour basins etc. that may cause a hazard to public health and ecosystems.

AGGREGATE DREDGING
Dredging in order to extract minerals with an economic value from underwater deposits.

MAINTENANCE DREDGING
The periodic removal of shoals or sediments from existing navigational channels, rivers, ports, lakes, hydro-power reservoirs etc. in order to maintain a safe water depth for navigation, construction, or operational purposes.
The design is such that, with the help of suitable cranes and crew, the dredger is assembled in just a few days. All electrical connections feature sockets and all bolt connections are easy reachable.

WHEREEVER IN THE WORLD
Damen Cutter Suction Dredgers, as part of the standardised Damen product portfolio, carry with them the benefits of series production. Amongst these are speed of delivery, use of proven technology, ease of maintenance and competitive pricing.
The Damen CSDs benefit from thorough R&D from their initial design, right through their entire lifecycle. Our team is continuously improving our dredgers, making them more cost-efficient, maintenance friendly and environmentally sustainable.

Damen’s close cooperation with world-renowned research institutes like Delft University of Technology (TU Delft), Maritime Research Institute Netherlands (MARIN) and the Nederlands Organisation of Applied Scientific Research (TNO), as well as other reputable universities and leading maritime and dredging companies, contributes to this product development.

Dredge Pump Design

Damen designs its own extensive range of dredge pumps. The range includes low, medium and high pressure dredge pumps focusing on maximum efficiency and minimal wear.

Remote Access by Damen Digital

All Damen dredgers are equipped with a Damen Digital remote access connection. In this way Damen and you are able to view dredge data and perform trouble-shooting from a distance, saving costs and operation time.

Dredgefinder.com is an online tool to aid contractors in choosing the right CSD and additional equipment for tender submissions. The results provide valuable production information and give insight into the potential efficiency gain of selected options.

Visit www.dredgefinder.com
A CLEAN AND ORGANISED PRODUCTION
Damen Cutter Suction Dredgers are of the highest possible quality, ensuring a long lifetime with a minimum of maintenance. Partially this is due to our selection of the best components for the job and partially due to our optimised construction process, which is undertaken at our dedicated production location in the Netherlands.

A DREDGING INSTITUTE
Here, the complete design, operational support and building is carried out. Performing the comprehensive process in one location guarantees short lines of communication. This results in continual product development and smooth, efficient building. The location is modern, clean and logistically well-situated.

ONLY THE BEST PARTNERS
Damen selects only the best industrial partners for the supply of dredger subsystems. For example, cabins are produced by a market leader in the fabrication of industrial cabins.
THE DAMEN CUTTER SUCTION DREDGER DESIGN IN DETAIL

The CSD features an efficient and robust design, combining high-quality production with easy assembly and low maintenance.
The powerfull Caterpillar main engine is used to drive the dredge pump. The CSD450 and larger models have an additional engine to drive the auxiliary equipment in such a way as to give an optimal dredging process.

With the exception of the CSD250, one of the side pontoons of each CSD-type is equipped with storage racks for spare parts and other utensils.

The two Damen-designed side winches are equipped with an adjustable hydraulic brake valve, making cutter operation possible with one winch controller.

The spacious operating cabin provides an excellent view on essential deck equipment. The well-insulated cabin is mounted on shock absorbers for improved comfort and low noise levels.

Damen’s in-house developed dredge pumps are equipped with a mechanical shaft seal and have a large spherical passage, minimising the risk of pump blockage and therefore reducing maintenance.

Spuds are hoisted and lowered by hydraulic cylinders controlled from the operating cabin. Manual lowering is also possible.

Thanks to sophisticated dredging instrumentation and automation, each CSD can be operated by a single person from the wheelhouse.

The powerfull Caterpillar main engine is used to drive the dredge pump. The CSD450 and larger models have an additional engine to drive the auxiliary equipment in such a way as to give an optimal dredging process.

The well-insulated cabin is mounted on shock absorbers for improved comfort and low noise levels.
The Damen standard range consists of five types of dredger. The standard design and continuous building process have resulted in a short delivery times and competitive pricing. All Cutter Suction Dredgers are completely assembled and fully tested at the yard before delivery, and thus immediately ready for operation on arrival at site.

<table>
<thead>
<tr>
<th></th>
<th>CSD250</th>
<th>CSD350</th>
<th>CSD450</th>
<th>CSD500</th>
<th>DCSD500</th>
<th>CSD650 - 18 m</th>
<th>CSD650 - 25 m</th>
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<tr>
<td><strong>PRINCIPAL DIMENSIONS</strong></td>
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<td>33.15 m</td>
<td>38.50 m</td>
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<td>115 t</td>
<td>140 t</td>
<td>220 t</td>
<td>535 t</td>
<td>660 t</td>
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<td>MIN/MAX DREDGING DEPTH (LADDER ANGLE 3°/45°)</td>
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<td>3,000 m³/h</td>
<td>4,000 m³/h</td>
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<td>DAMEN DREDGE PUMP TYPE</td>
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<td>BP3530MD</td>
<td>BP45-1100</td>
<td>BP5045</td>
<td>BP5045</td>
<td>BP6560MD</td>
<td>BP6560LD / BP6560MD</td>
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<td>350 mm</td>
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<td>55 kW</td>
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<td>180 kW</td>
<td>110 kW</td>
<td>700 kW</td>
<td>700 kW</td>
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<tr>
<td>TOTAL INSTALLED POWER</td>
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<td>447 kW</td>
<td>941 kW</td>
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<td>C18</td>
<td>C32</td>
<td>3512C</td>
<td>3512C</td>
<td>3516C HD</td>
<td>C32 gen set &amp; 3516C HD</td>
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<tr>
<td>CONTINUOUS POWER RATING (A-RATING)</td>
<td>254 kW</td>
<td>447 kW</td>
<td>709 kW</td>
<td>954 kW</td>
<td>954 kW</td>
<td>1,825 kW</td>
<td>1,080 kVA and 1,825 kW</td>
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<td>TOTAL FUEL CAPACITY (APPROX 100 RUNNING HRS)</td>
<td>6.0 m³</td>
<td>8.4 m³</td>
<td>18.8 m³</td>
<td>22.0 m³</td>
<td>20.0 m³</td>
<td>90.5 m³</td>
<td>92.0 m³</td>
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<tr>
<td><strong>DECK MACHINERY</strong></td>
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<td></td>
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<tr>
<td>LADDER HOISTING</td>
<td>hydraulic cylinder</td>
<td>winch 50 kN, 0-15 m/min</td>
<td>winch 80 kN, 0-15 m/min</td>
<td>winch 120 kN, 0-15 m/min</td>
<td>winch 270 kN, 0-15 m/min</td>
<td>winch 270 kN, 0-15 m/min</td>
<td>winch 270 kN, 0-15 m/min</td>
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<tr>
<td>SIDE WIRE WINCHES (2X)</td>
<td>40 kN, 0-15 m/min</td>
<td>50 kN, 0-15 m/min</td>
<td>80 kN, 0-15 m/min</td>
<td>120 kN, 0-15 m/min</td>
<td>120 kN, 0-15 m/min</td>
<td>270 kN, 0-15 m/min</td>
<td>270 kN, 0-15 m/min</td>
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<tr>
<td>SPUD HOISTING (2X HYDRAULIC CYLINDER)</td>
<td>Stroke 1 m</td>
<td>Stroke 1.2 m</td>
<td>Stroke 1.5 m</td>
<td>Stroke 1.5 m</td>
<td>Stroke 1.5 m</td>
<td>Stroke 2 m</td>
<td>Stroke 2 m</td>
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</table>
The standard CSD can be customised effortlessly with a large number of available options. As these options are ready prepared, they can be installed quickly, even after delivery.

Options

Assemble your perfect dredger

The standard CSD can be customised effortlessly with a large number of available options. As these options are ready prepared, they can be installed quickly, even after delivery.

Besides these standard options, our dredgers can be customised in accordance with almost any specific wishes.
ANCHOR BOOM
An anchor boom installation makes it possible to shift the anchors without help of a Multi Cat. A big advantage in shallow water dredging.

DAY ACCOMMODATION
A 3D layout of the day accommodation showing a kitchen sink, cooking stove, toilet, shower and a sitting and storage area.

CRANE
For easy maintenance of the dredge pumps and general use.

PRODUCTION MEASUREMENT SYSTEM
The production measurement system (radioactive or non-radioactive) gathers production data by means of a density and flow meter on the discharge pipeline. In the wheelhouse a digital touch screen is fitted, showing daily and total production in tonnes of dry material dredged.

SPUD CARRIAGE PONTOON
Adding a spud carriage to your CSD allows for an increase in production up to 20% as idle time due to frequently changing spuds.

HEAVY DUTY CUTTER
Less downtime and better performance in hard soils.

DYNACOVER
To increase the safety of the dredger, an extra protection layer around the dredge pump can be installed. The cover, called DynaCover, ensures that the wear parts can be safely worn down to a maximum. The Dynacover can be retrofitted on existing dredge pumps.

POSITIONING VISUALISATION SYSTEM
A positioning visualisation system will greatly increase the efficiency of the dredger as it shows the position of the cutter head and information on the area of operation within 1 metre accuracy. This can be enhanced to 10 centimetres by adding the RTK shore-based station.
With sand being dredged at ever greater depths, Damen has added a Deep Cutter Suction Dredger 500 to its portfolio. This compact dredger has been designed to operate at dredging depths that have previously been possible to reach only with larger dredgers.

The fully dismountable DCSD500 has been designed in a catamaran format with the buoyancy provided by pontoons forming the outer limits of the vessel to port and starboard. The suction ladder, which is centrally mounted between them, is fitted with a submerged dredge pump, which is directly driven by a diesel engine. This is also mounted on the ladder. The dredger can be controlled by a single individual from the control cabin, which is raised for the optimal project overview.

In 2001 Damen built the first sand-mining dredger with a diesel-direct dredge pump.

The submerged dredge pump is direct driven by the diesel engine mounted on the ladder. It guarantees the most efficient and reliable possible drive.
The new design guarantees the lowest costs per cubic metre dredged and greater depths with compacted material.

<table>
<thead>
<tr>
<th>PRINCIPAL DIMENSIONS</th>
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<tbody>
<tr>
<td>LENGTH O.A. (INCL. LADDER &amp; SPUDKEEPERS) 46.00 m</td>
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<tr>
<td>LENGTH OVER PONTOONS 28.50 m</td>
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<tr>
<td>BEAM O.A. 9.00 m</td>
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<tr>
<td>DEPTH 2.00 m</td>
</tr>
<tr>
<td>DRAUGHT (BUNKERS FULL, APPROX) 1.20 m</td>
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<tr>
<td>AIR DRAUGHT (SPUDS REMOVED, LADDER UP) 6.40 m</td>
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<tr>
<td>TOTAL WEIGHT 220 t</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>DREDGING FEATURES</th>
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</thead>
<tbody>
<tr>
<td>MIN/MAX DREDGING DEPTH (LADDER ANGLE 3°/45°) 5/25 m</td>
</tr>
<tr>
<td>DREDGING WIDTH (40° SWING ANGLE/MAX DEPTH) 44 m</td>
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<tr>
<td>MAXIMUM MIXTURE CAPACITY 4,000 m³/hr</td>
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<thead>
<tr>
<th>DREDGING INSTALLATION</th>
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<tbody>
<tr>
<td>DAMEN DREDGE PUMP TYPE BP5045</td>
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<tr>
<td>SUCTION/DISCHARGE INTERNAL PIPE DIAMETER 550/500 mm</td>
</tr>
<tr>
<td>CUTTER POWER 110 kW</td>
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<tr>
<th>ENGINE INSTALLATION</th>
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<tbody>
<tr>
<td>TOTAL INSTALLED POWER 1,421 kW</td>
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<tr>
<td>DREDGE PUMP DIESEL CATERPILLAR 3512C</td>
</tr>
<tr>
<td>CONTINUOUS POWER RATING (A-RATING) 954 kW</td>
</tr>
<tr>
<td>TOTAL FUEL CAPACITY (APPROX 100 RUNNING HRS) 20.0 m³</td>
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<tr>
<th>DECK MACHINERY</th>
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<tbody>
<tr>
<td>LADDER HOISTING winch 270 kN, 0-15 m/min</td>
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<tr>
<td>SIDE WIRE WINCHES (2X) 120 kN, 0-15 m/min</td>
</tr>
<tr>
<td>SPUD HOISTING (2X HYDRAULIC CYLINDER) Stroke 1.5 m</td>
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</table>
Damen can ship a complete dredge package to your job site including the pipeline and matching booster station.

**BOOSTER STATIONS**

Booster stations enable you to extend your discharge distance. They can be remotely controlled and monitored from the CSD.

The standard booster station can be equipped with extra insulation measures to meet noise restrictions specified for environmentally sensitive or urban areas.

Standard booster stations are fitted with:

- Dredge pump identical to the CSD for easy maintenance
- Radiator cooled diesel engine with constant power over large speed range
- Standard container sized frame and casing for practical hoisting and transport
- Compactly casing provided with large doors and hatches for servicing
Damen offers complete pipeline systems of steel or HDPE, for the transportation of the mixture.

The Multi Cat is the optimal auxiliary vessel for a dredging operation. Besides that, it can be equipped with all kinds of accessories such as a DOP pump, Water Injection Dredger installation or a plough to level the dredged bottom.

The Multi Cat was invented by Damen as the perfect assisting vessel for a dredger. It can perform the following operations:

- Anchor handling and repositioning
- Towing duties of dredger, pipeline, etc.
- Changing cutter teeth
- Connecting pipelines
- Transport of crew, parts, fuel, etc.

With its spacious working deck and 360° view from the wheelhouse, the Multi Cat ensures safe handling and high crew comfort.
The pontoons have thicker steel plating where larger stresses are likely to be present, as pictured here at the ladder hinge area at the front of the main pontoon. Plate sides are always bevelled to ensure seamless transition of stress throughout the structure.

Safety in the details: Rotating parts of the drive train are safely kept away by steel grating with soft rubber edges for personnel safety. The opening in the grating enables manual turning of the dredge pump propellor during maintenance.

Extra attention has gone into the structural design and positioning of hoisting eyes, which are fitted with extra thick steel rings and full penetration welding to ensure reliable hoisting of the whole dredger from four points only.

All pipes are labelled to indicate the flow direction and transported fluids.

The air conditioning is mounted on rubber pieces to reduce vibration in the wheelhouse.

The spud keepers are equipped with hinged ‘doors’ on both sides to enable horizontal removal of spuds from the CSD for convenient maintenance.

The pump foundation has been designed in a way that the pump can be placed as low in the CSD as possible to ensure the best possible suction performance.

All doors and hatches have fastening pins for personnel convenience and safety.

Underwater parts of the dredger are covered in anodes to prevent corrosion.

All abrasive hose parts are sealed to protect them from corrosion.

The standardisation of Damen’s CSDs, combined with our commitment to R&D, ensures the continual evolution of the range. Years of continual product development has ensured close attention is paid to all details, no matter how small. Add to this use of high quality materials and you can take confidence in the quality of your dredger.

The Damen CSD incorporates state-of-the-art solutions for corrosion prevention. All steel parts are well-rounded and welding is done without overlap or undercutting.

<table>
<thead>
<tr>
<th>HULL OUTSIDE, BELOW LOAD WATERLINE</th>
<th>THICKNESS (µM)</th>
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<tbody>
<tr>
<td>1 Coat INTERSHIELD 300 Bronze</td>
<td>150</td>
</tr>
<tr>
<td>1 Coat INTERSHIELD 300 Aluminium</td>
<td>150</td>
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<tr>
<td>1 Coat INTERGARD 263 Light Grey</td>
<td>75</td>
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<tr>
<td>1 Coat INTERSMOOTH 465 SPC Red</td>
<td>110</td>
</tr>
<tr>
<td>1 Coat INTERSMOOTH 365 SPC Brown</td>
<td>110</td>
</tr>
<tr>
<td>1 Coat INTERSMOOTH 365 SPC Red</td>
<td>110</td>
</tr>
</tbody>
</table>
All functions are well-balanced in such way as to ensure optimal performance.

The spud poles are made of heavy gauge pipe and are lifted by steel wires and single acting hydraulic cylinders. The spud keepers are designed so that the spuds can be lifted up to the bottom level of the CSD and can be hinged for easy removal.

Transitions between pontoons are bridged with flexible hoses.

The CSD is equipped with extra strong side winches to ensure high production in hard or coarse material or when operating in water with current.
The engine room naturally requires regular inspection. Damen's larger CSDs have spacious engine rooms with wide footways and ample headroom, ensuring optimal accessibility.

All CSDs are powered by modern computer-controlled Caterpillar diesel engines with low fuel consumption and low emissions, enabling all functions to operate simultaneously. Just like Damen, Caterpillar stands for high-performance in combination with quality and a worldwide network.
The separate stainless steel hydraulic tank is equipped with silica gel deaerator filters to prevent condensed water contaminating the hydraulic system.

Excluding the CSD650, the engine(s) and gearbox of all CSDs are fresh-water cooled by box coolers. They are placed in a well protected location at the starboard aft side of the main pontoon, giving straightforward access for easy cleaning.

A DUAL ACT
The CSD450 and larger models are equipped with two (three in the case of the CSD650) engines. A main engine dedicated to the dredge pump and a smaller auxiliary engine to power the electric and hydraulic system. This has the following advantages:

- The use of hydraulics does not influence the available power for the dredge pump and makes the dredging process more stable and efficient
- During idle time/maintenance hours the main engine can be shut down as the necessary electric and hydraulic power is delivered by the smaller auxiliary engine, resulting in less fuel consumption

CONDENSE FILTERS HYDRAULIC TANK
The separate stainless steel hydraulic tank is equipped with silica gel deaerator filters to prevent condensed water contaminating the hydraulic system.
The CSD dredge pump is an in-house designed pump with unrivaled high performance. Due to its large spherical passage, blockage of the pump is kept to a minimum. The dredge pump is always located under a hatch to facilitate convenient replacement of inevitable wear parts.

Built to Last
The pump parts in contact with the abrasive mixture are casted from wear and impact resistant materials. Based on the soil type, we deliver the most suitable wear material.

Easy Maintenance
An inspection piece in front of the dredge pump can be easily removed to free space for (dis)mounting the impeller, housing and wear plates.

Mechanical Shaft
Damen's highly efficient dredge pumps are fitted out with a mechanical shaft that is both maintenance friendly and environmentally friendly. This special shaft seal does not require grease or gland water, so minimises service downtime.
Pump production solids (in-situ m³/hr)

PRODUCTION CURVES
Fine sand, D₅₀: 0.11 mm, In-situ density: 1,900kg/m³

At max. dredging depth and 25% concentration. Calculations assume free flowing sand and no restriction on suction side. Discharge pipe is straight and horizontal with an elevation of 2 metres.
The operating cabin is ergonomically designed, with conveniently placed components and controls at your fingertips. Due to sound insulation measures and the use of double-glazed windows, noise levels are low. Furthermore, the cabin is placed on shock absorbers to reduce vibration.

A ONE-MAN-SHOW

With an excellent view on all essential deck equipment from the operating cabin and the implementation of a sophisticated control system, the Damen CSD allows for operation of the dredger by a single person.
1. The design of the wheelhouse and placement of deck equipment provides the dredge operator with a clear overview during the dredging process.

2. The design ensures excellent visibility of essential functions.

3. The cabin roof extends the cabin floor and the grey-tinted double glazed front windows are placed in a sloped panel to reduce Sun reflection.
As well as building at our own yards, we also assist our customers in building Damen vessels at a yard of their choice via the Damen Technical Cooperation (DTC).

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

Since DTC was established, over 1,000 vessels have been produced locally in more than 70 countries worldwide.

Damen can deliver anything from the licence and vessel design to a full material package and, if necessary, turnkey solutions based on client requirements. DTC’s scope covers the entire Damen portfolio.
DAMEN SERVICES
NEVER SET SAIL ALONE

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

INTEGRATED LOGISTICS SUPPORT
– Reliability, availability and maintainability analysis
– Reliability centered maintenance analysis
– Logistic support analysis

DELIVERY
– Warranty support
– My Damen
– Commissioning

GETTING STARTED

COMBINED SERVICES PACKAGE
– Ship delivery
– Initial spare parts package
– Vessel operating manual
– Training
– Maintenance management solutions

KEEPING YOU GOING

LONG-TERM SERVICE AGREEMENT
– All-round services
– Fleet support: parts, maintenance and repair
– Consultancy
– Damen Digital
– Conversion
– Refit

WORLDWIDE SERVICE HUBS
To fulfill our customers’ need for short reaction times and understanding of local languages and cultures, Damen Services started multiple Service Hubs. These Service Hubs are tailored to regional demands and are able to supply all necessary services from our portfolio.

INTEGRATED LOGISTICS SUPPORT
Integrated Logistics Support (ILS) is increasingly applied in the commercial and coastguard sectors today. If requested, Damen can supply a customised ILS programme with our newly built products.

GETTING STARTED
Damen Services is able to tailor its service packages to specific requirements. In this way we ensure our clients can begin their operations as soon as we deliver their vessel on location.

KEEPING YOU GOING
Downtime is becoming more and more expensive. Damen Services’ portfolio enables reduction of downtime, either upfront via taking over the entire maintenance strategy or via quick intervention if a malfunction occurs.

LONG-TERM SERVICES AGREEMENT
Damen Services is able to tailor its service packages to specific requirements. In this way we ensure our clients can begin their operations as soon as we deliver their vessel on location.

WARRANTY SUPPORT
Customer satisfaction is of utmost importance to us. Customers can reach out to a dedicated service team 24 hours a day, seven days a week. As well as having access to Damen via our mobile app, customers are visited by a Damen technician, regardless of whether there is an issue or not.

INNOVATION & DEVELOPMENT
We respond to the rapidly changing world with the continuous development of our services. This includes an expanding focus on digitalisation and sustainability. Examples include remote monitoring, a personal webportal for maintenance management, 3D parts printing and intelligent asset management.
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 values 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, dredgers, vessels for the 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 Shipyards 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.