**CONSTRUCTION SUPPORT VESSEL - LIGHT**

**DAMEN OFFSHORE CARRIER**

Member of the DAMEN SHIPYARDS GROUP

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**A WELL DESIGNED PLATFORM FOR TRANSPORT AND INSTALLATION**

**ENVIRONMENTAL PROTECTION**

- The DOC is supplied with a green Passport, which gives an inventory of possible hazardous materials on board.
- Fuel tanks are protected with cofferdams from bottom and shell, and the vessel has a Zero Dumping Certification.
- Scrubbers are optional to gain the benefits of HFO sailing and to reduce emissions.
- The DOC can be equipped with LNG propulsion, with fixed or containerised LNG storage tanks.
- During the design process special attention was paid to sustainability. This has been achieved by the combination of materials, workmanship and Damen's experience – ensuring a long lifetime for the vessel.
- Heat recovery is optional (cooling water/exhaust gas).
- Optional full Clean Design.

**DAMEN OFFSHORE CARRIER RANGE**

<table>
<thead>
<tr>
<th>Length Over All</th>
<th>100-150 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length Cargo Deck</td>
<td>65-85 m</td>
</tr>
<tr>
<td>Breadth Moulded</td>
<td>24-32 m</td>
</tr>
<tr>
<td>Depth to Main Deck</td>
<td>9.11.5 m</td>
</tr>
<tr>
<td>Draught Design Approx.</td>
<td>5.5-8.0 m</td>
</tr>
<tr>
<td>Deck Area</td>
<td>1500-3000 m²</td>
</tr>
<tr>
<td>Deadweight All Told</td>
<td>5000-14000 t</td>
</tr>
<tr>
<td>Trial Speed Approx.</td>
<td>10-15 knots</td>
</tr>
<tr>
<td>Accommodation</td>
<td>30-240 persons</td>
</tr>
</tbody>
</table>

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THE DAMEN OFFSHORE CARRIER (DOC) OFFERS A PLATFORM FOR TRANSPORTATION AND INSTALLATION WORKS IN VARIOUS MARKETS TO ENSURE HIGH FLEXIBILITY FOR YEAR AROUND UTILISATION.

SHORE-TO-SHORE TRANSPORTATION & INSTALLATION WORKS
The Damen Offshore Carrier is a highly versatile, multifunctional platform, primarily designed for shore-to-shore transportation and installation works in various markets to ensure flexibility and year-round utilisation.

OFFSHORE WIND & TIDAL MARKET
The DOC offers an excellent platform for transportation and installation works in the offshore wind and tidal market.

FEEDERING SOLUTION FOR NACELLES
The feeding solution for nacelles is made possible by Barge Master BV.

THE DOC CAN BE CUSTOMISED WITH:
- DP2/DP3
- Helicopter deck (Sikorsky S76/S92)
- 4 Point mooring
- Active roll damping
- Retractable bow thruster
- HFO fuelled or LNG fuelled
- Ice Class
- Grounding

EXCELLENT SEAKEEPING BEHAVIOUR & SUSTAINED SPEED IN HIGHER SEA STATES
In the design process particular attention was paid to the bow and hull. The new distinctive, sleek bow and slender hull enables the vessel to sustain its speed and course in head seas, as well as helping to reduce fuel consumption. The bow design leads to less acceleration and slamming has been reduced to a very low level, improving comfort and safety.

DP SYSTEM
The DOC fulfils the latest market demands because it can be equipped with a DP3 system. This makes the DOC extremely stable ensuring safe loading/unloading operations offshore.

The DOC can be outfitted with special mission equipment to create a mission specific vessel. Among others:
- Deep Sea Mining - DOC DSM
- Offshore Construction - DOC-OCC
- Cable Laying Vessel - DOC-CLV
- Ro-Ro - DOC-RoRo
- Rock Dumping - DOC-RDV

COST EFFICIENT & DRAMATIC REDUCTIONS IN FUEL CONSUMPTION
Damen set out to create a vessel that was able to carry modules and cargo on the open deck for long distances, in line with the demands of today’s market. The vessel should provide a good alternative to the usual method of transportation using a tug and barge.

Damen Research & Development specifically looked at the advantages of the DOC compared to a tug/barge combination and found that fuel consumption is reduced by a staggering 25% and the vessel is better able to maintain course and speed.

ALL VESSELS IN THE DOC RANGE CAN BE CUSTOMISED WITH:
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- Active roll damping
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EXCELLENT SEAKEEPING BEHAVIOUR & SUSTAINED SPEED
We at Damen believe that there has to be a perfect balance between work and recreation. Both, however, should take place in an environment that is safe, comfortable, quiet, durable, easy to maintain and inspiring. And your crew should feel at home. We strove for an optimum design and we have selected high quality materials while meeting the requirements of applicable regulatory agencies.