

Service Operations Vessel 7017 E



Features:

- » Zero-emission
- » Damen's DPX-DRIVE™

GENERAL

The vessel serves to provide hotel functions and stepless access onto Offshore Wind Farm structures for technicians, tools and parts by access system, optional crane and daughter craft. The vessel is able to run fully on batteries, allowing for zero-emission operations. Offshore charge systems are an integral part of the total solution.

Classification **✘** 1A Windfarm Service Vessel, Strengthened(DK), E0, Battery(Power), DYNPOS(AUTR), COMF(V-2, C-2), ER(SCR), Clean (Tier III), BIS, LCS

DIMENSIONS

Length overall	70.1	m
Beam moulded	17.0	m
Service draught	4.5	m
Gross tonnage	4300	GT

CAPACITIES

Fuel oil	Approx. 260	m ³
Fr. water, potable	Approx. 90	m ³
Cargo weather deck area	Approx. 300	m ² (6 x 20ft cont.)
Covered warehouse areas	Approx. 420	m ² main deck

PERFORMANCES

Speed @ summer draught	12.0 / 10.0	kn max / eco
Endurance	28	days

PROPULSION SYSTEM

Propulsion 4x 900 kW azimuth thrusters in double-ended arrangement for optimal maneuvering

ZERO-EMISSION SOLUTIONS

The vessel is offered with 2 options of battery systems:

- » 10 MWhr, suitable for approx. 75% full-electric operations
- » 15 MWhr, suitable for approx. 98% full-electric operations

Batteries are of Lithium Iron Phosphate (LFP) type, for high inherent safety and reduced ecological footprint.

For backup, emergency and mobilization purposes 2x 1200 ekW HVO / diesel generators are provided which allow the vessel to continue all operations, even with depleted batteries.

The vessel is charged via a receptacle on the stern by a 4MW/11kV connector. Transfer of a charge cable is by means of a manipulator, attached to the tip of the motion compensated gangway. Connecting / disconnecting is without manual intervention, fully controlled from the gangway's operator position.

Offshore charge stations, fully compatible with the vessel, are to be installed on offshore wind turbines and / or offshore substations and can be delivered via Damen's specialized partners.

MISSION EQUIPMENT

Motion compensated gangway	3D MCG 25m length, mounted on a tower with integrated elevator. The gangway is Adjustable to a working height of 14m to 25m above sea level.
Helicopter winch area	On foreship, stepless access to warehouse and hospital.
Boat landing facilities	Steel boat landing at stern with height-adjustable platform and walkway, adjustable between 1m and 4m above sea level, providing direct access into warehouse without the need for fall arrestors.
Refueling stations	Boat landing is provided with refueling station for fuel and urea. MCG is provided with utility lines to supply fresh water, fuel and electric power to offshore structures

ACCOMMODATION

Cabins	Max. 60 PoB. 60 x single cabins. All fitted with high-speed Wifi and access to Video on Demand
Comfort	The vessel provides hotel-style accommodation with high comfort levels due to a.o. low vessel motions, low noise levels, high-standard climate control, state-of-the art internet and entertainment systems and well-designed way-finding systems.
Office Leisure	Large office spaces, multiple (flexible) conference rooms Feel at home, away from home. Attractive, inviting lunch café / restaurant, large gymnasium, game rooms, cinema

NAUTICAL AND COMMUNICATION EQUIPMENT

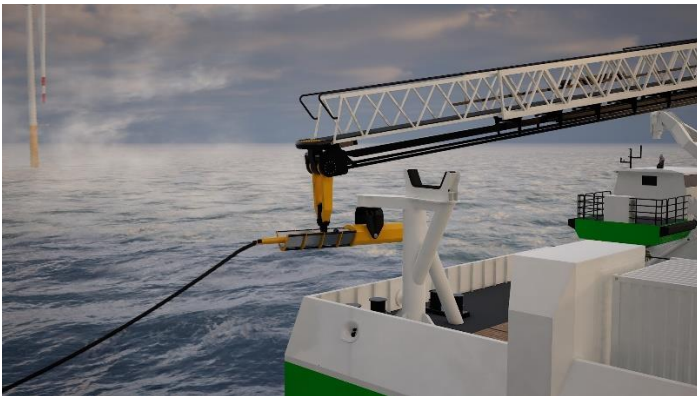
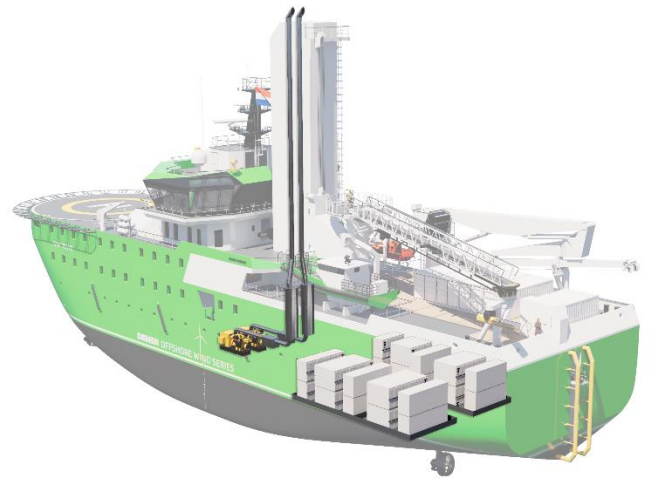
DP-system	DP-2 with target-less Laser PRU and 2x DGPS PRU. High-speed auto track capability
Motion prediction	Wave radar with motion prediction capability, for improved safety and operability during offshore transfer operations
Communication	VSAT, 5G, TVRO, prepared for LEO

OPTIONS

Charge stations	Offshore charge stations, fully compatible with the vessel, can be delivered as an option via specialized partners.
Helicopter deck	The winch area can be fitted as a landing area with a D-value of 17m
Daughter craft	Up to 1x 15m daughter craft and LARS, choice of leading OEM.
Motion compensated offshore crane	Various crane options are possible. E.g.: 3D MCG offshore crane. SWL 2 ton MCG; SWL 10 ton in harbor

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