



SERVICE OPERATIONS VESSEL 7017

GENERAL

All data are preliminary and subject to change.

Basic functions	To provide stepless access onto Offshore Wind Farm assets for technicians, tools and parts by access system, crane and daughter craft, mainly in Service Operations.
Classification	✕Hull ✕Mach, Wind Farms Service Ship L2, SP(60) Unrestricted Navigation, + AUT-UMS / Inwatersurvey / SDS + Dynapos AM/AT -R / Comf-Noise 2 Green Passport EU, Protected FO tanks, Electric Hybrid (PB)

DIMENSIONS

Length overall	70.1 m
Beam moulded	17.0 m
Depth moulded	6.4 m
Service draught base / keel	4.5 m

CAPACITIES

Fuel oil	Approx. 260 m ³
Fr. water, potable	Approx. 90 m ³
Deadweight (depending on options selected)	Approx. 900 t at max dr. 4.40m,
Cargo weather deck area	Approx. 300 m ² (6 x 20ft cont.)
Covered warehouse areas	Approx. 420 m ² maindeck 170 m shelf length, 2 levels charterer's workshop
Max. weatherdeck load	90 t at 1m above deck
Dangerous Goods	Packaged DG in paint / IMDG store. DG container on weatherdeck t.b.d.

PERFORMANCES

Speed @ summer draught	12.0 / 10.0 kn max / eco
Endurance	30 days
Station keeping in Central North Sea	<ul style="list-style-type: none"> DP2 up to and incl. 6Bf wind, 2.9m Hs, 1.5kn current, from 0-360 deg. DP2 up to and incl. 7Bf wind, 3.5m Hs, 1.5kn current, from +/-30 deg ahead or astern.

PROPULSION SYSTEM

Main propulsion	Diesel-electric, battery supported hybrid, 440 V, 60 Hz
Stern thrusters	2x azi thruster (ducted, FP)
Bow thrusters	2x azi thruster (ducted, FP)

ELECTRICAL SYSTEM

Networks	440 V and 230 V – 60Hz
Main generator power	total installed appr. 3.5 eMW
Main switchboard arr.	Closed-bus DP2 operations, Battery-hybrid

DECK LAY-OUT

Helicopter winch area	On foreship for helicopter D-size up to approx. 15m
CTV landing facilities	1 fixed landing at vessel stern with height adjustable platform for stepless personnel transfer
Daughter craft	Space reserved for optional 15m windfarm service boat and LARS. Separate SOLAS rescue boat, or optional FRC and LARS.
Facilities	<ul style="list-style-type: none"> Knuckle boom crane to lift up to 1t cargo on/off CTV foredeck refueling of DC in stowed position and of CTV at CTV landing.

ACCOMMODATION

Cabins	total 59 cabins for max. 60 persons on board.
Charterer's personnel	typically 40 to 42 charterer's personnel in single. Cabins have direct daylight, ensuite bath room, desk, lounge chair and telephone. Optional facilities include WiFi, LAN, and audio/video entertainment.
Crew	typically 18 to 20 crew, accommodated in single / double cabins
Facilities	Multiple client offices with large windows and client meeting / conference rooms. Restaurant / lunch cafe, game room, cinema, smoking lounge, reception and waiting area, hospital, multiple changing areas with drying room, gym.

NAUTICAL AND COMMUNICATION EQUIPMENT

Nautical	Radar X-band + S-band, ECDIS, Conning, GMDSS Area 1, 2 and 3, Personnel tracking system.
DP-system	DP-2 with 3 pos.ref.systems: laser and 2xDGPS. With wind farm route planning and high-speed autotrack mode.

MISSION EQUIPMENT

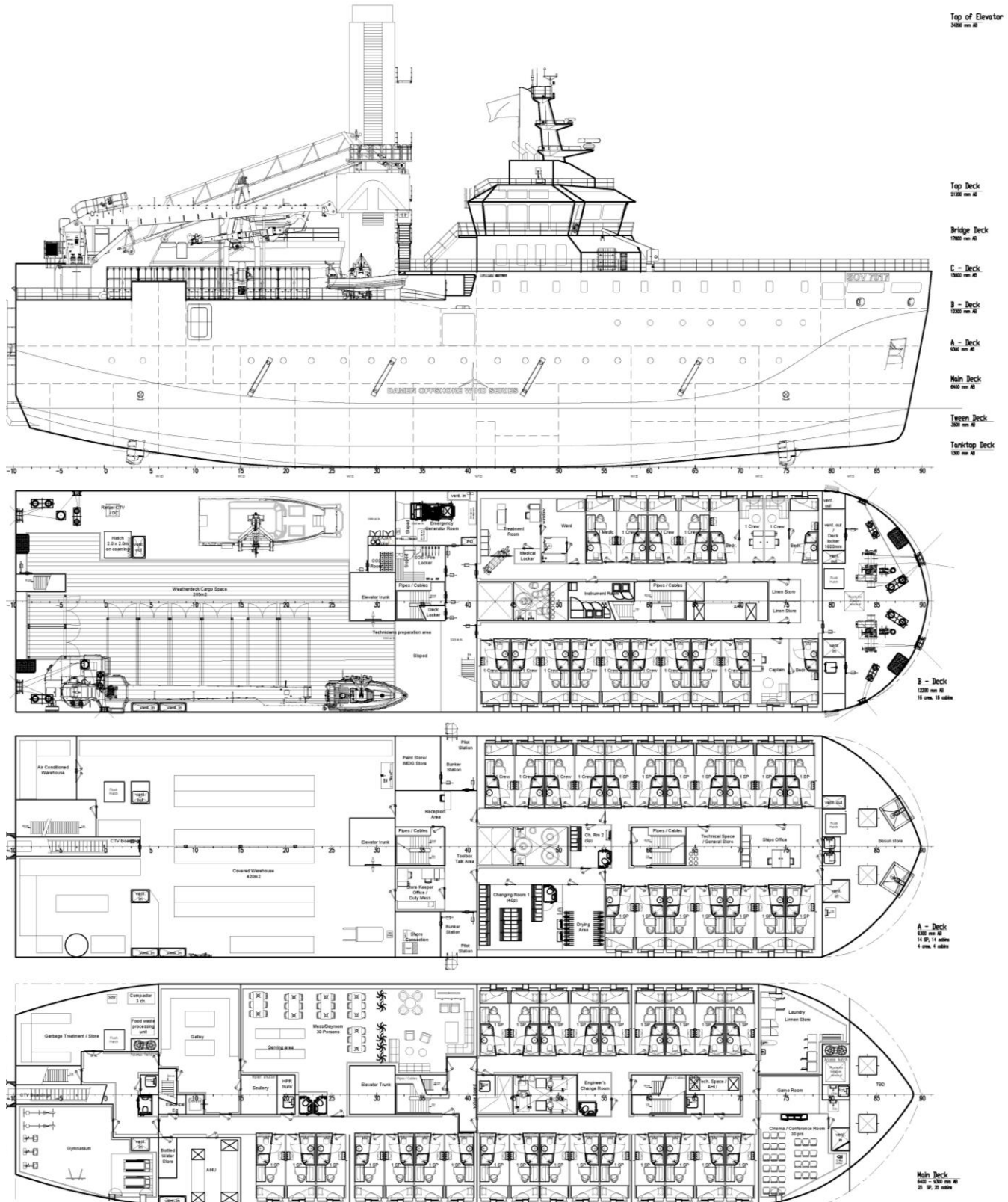
Integrated lift and access system	Lift offering stepless and continuous access for personnel and trolleys between warehouse, weather deck, helideck and gangway. Gangway operates to PS only. Optionally gangway may operate both PS and SB side.
Offshore crane	either 3D motion compensated of AHC. Arranged for load cases: <ul style="list-style-type: none"> 2t active heave-comp. onto TP at >10m safe distance 4t at 6m distance onto quay (PS) in harbour mode.
Daughter craft	Up to 1x 15m daughter craft and LARS, choice of leading OEM. Capacity: up to 10 SP + 2crew; cargo 3x europallets up to 1.0t total weight

OPTIONS

Helicopter deck	The winch area can be fitted as a landing area with a D-value of 17m
Increased cabin capacity	Various length options are possible; allowing to increase cabin capacity up to approx. 80 cabins
Monitoring facilities	Vessel motion monitoring and reporting, wave monitoring and reporting, POB / mustering system .
Network and communication	VSAT, WiFi, LAN, 4g signal coverage, DECT portable telephones, video conference system.
Entertainment	Audio and video (Video-on-demand and sat. TV).
DP position reference system	RangeGuard MonoPole ; Scenescan MonoPole

DAMEN

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