



DAMEN FIRM 120

CONCEPT DESIGN

GENERAL

Basic functions	Inspection Repair and Maintenance Transport of supplies and crew ROV support Module handling Emergency response & Rescue Dynamic Positioning
Classification	DnV 1A1 with the following class notations: SF, E0, DYNPOS-AUTR, CLEAN DESIGN, COMF-V(3), ICE-C, LFL*

DIMENSIONS

Length o.a.	120.00 m
Length b.p.p.	117.00 m
Beam mld.	21.00 m
Depth mld.	9.50 m
Design draught (base)	5.00 m
Full load draught (base)	7.00 m
Deadweight (design)	1450 t
Deadweight (full load)	5500 t
Deck load (at 1 m above deck)	3000 t
Freeboard at max draught	2.5 m
Freeboard at operational draught	4.5 m

TANK CAPACITIES

Fuel oil (service)	1130 m ³
Potable water (service)	160 m ³
Sewage	50 m ³
Special products	300 m ³
Roll reduction	200 m ³

PERFORMANCES (APPROX.)

Speed (at design draught)	22 kn
Speed (economical)	14 kn

PROPULSION SYSTEM

Main propulsion	Diesel-Electric, 3300 V, 60 Hz
Propulsion power	2x 7000 ekW
Propellers	2x 4000 mm, FP, POD
Bow thruster	2x 1800 ekW, 2300 mm, FP
Retractable thruster	1x 1800 ekW, 2500 mm, FP

AUXILIARY EQUIPMENT

Networks	3300 V / 440 V / 230 V - 60 Hz
Main generator sets	5x 3000 ekW
Harbour generator set	1x 340 ekW
Emergency generator set	1x 175 ekW

DECK LAY-OUT

Deck crane	1x Knuckle boom, 100 t at 15 m, AHC
Module Handling System	Capacity to handle modules up to 30 t and 8m height AHC, to 2000 m, in conditions up to 4,5Hs
Tugger winches	2x each 10t pull
Fast rescue craft	1x 6.5 m, 212 hp inboard with waterjet
Live boats	2x 50 persons each

WORKING DECK

Deck area	800 m ²
Deck strength	10 t/m ²

ROLL REDUCTION

Active	Active stabilizing fins
Passive	Roll reduction tank

HELICOPTER FACILITIES

Helicopter deck capacity	D-factor 19.5 m , take-off weight 8.6t
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ACCOMMODATION

Crew/ special personnel	100 persons
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NAUTICAL AND COMMUNICATION EQUIPMENT

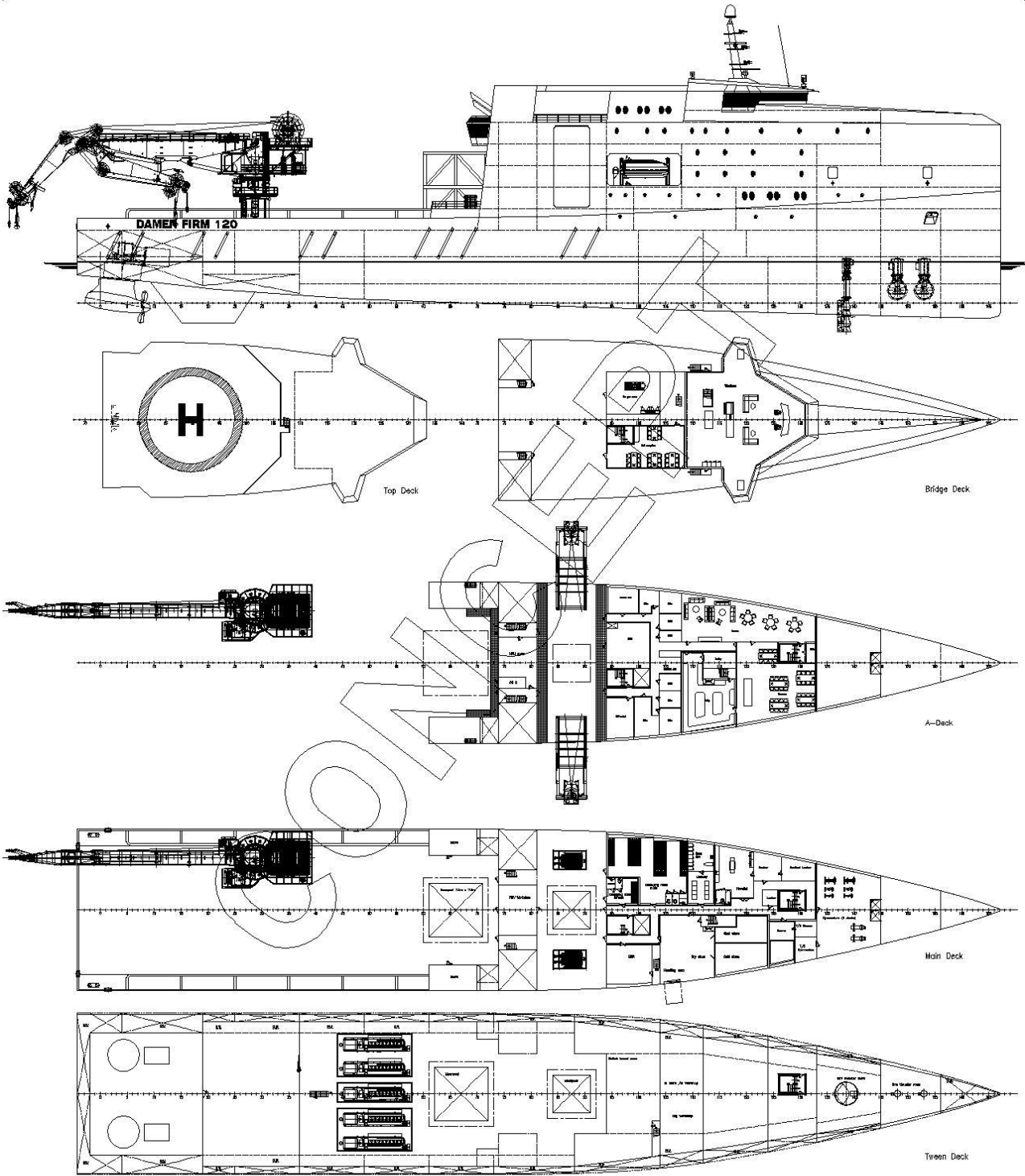
Radar systems	1x X-band + S-band
DP – system	DP2
Communication	GMDSS A3

HYDROLOGICAL AND OCEANOGRAPHIC EQUIPMENT

Spaces	Several working spaces ROV control room
Equipment	2x ROV LARS
Moonpool	1x 7.2x7.2 m 1x 5x5 m

OPTIONAL

Fire fighting equipment	
Oil recovery equipment	



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DAMEN

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