

HENDERSON INTERNATIONAL L.L.C.

New Build Vessel Design Flyers

70M Offshore Supply

64M Anchor Handling Tug

60M Offshore Construction Support

50M Research

48M Landing Craft

Technical Details - HI 70M



DIMENSIONS

Length Overall	72.10 m
Length on Waterline	67.36 m
Breadth Moulded	16.00 m
Depth Moulded	7.20 m
Summer Draft	6.00 m

CLASSIFICATION

DNV #1A1 SF ED DK(+) HL(2.5) DYNPOS AUTR
FIFI-1 COMF V(3) C(2)

SPEED

Trial Speed	13.5 knots
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CAPACITIES

Deadweight	3000 t
Fuel Oil	578 m ³
Fresh Water	710 m ³
Drill Water/Water Ballast	442 m ³
Mud/Brine/Slop	349 m ³
Dry Bulk	304 m ³
Deck Cargo	1000 t
Deck Loading	5 t/m ²
Deck Area	575 m ²

MACHINERY

Main Engines	2 x 2050 kW
Main Generators	2 x 590 kW
Shaft Generators	2 x 780 kW

Emergency Generator	1 x 120 kW
Main Propulsion System	2 x Schottel SRP 1515CP Azimuths
Bow Thrusters	3 x 550 kW
Deck Crane	5t @ 12m
Anchor Windlass	10t @ 0 - 9m/min
Tugger Winches	2 x 10t @ 0 - 15 m/min
Capstans	2 x 5t @ 0 - 15 m/min
Fuel Oil Cargo Pumps	2 x 150 m ³ /hr @ 8.0 bar
Fresh Water Cargo Pumps	2 x 100 m ³ /hr @ 8.0 bar
Mud/brine/Slop Pumps	2 x 80 m ³ /hr @ 18.0 bar
Dry bulk discharge rate	80 m ³ /hr @ 5.6 bar
Fire fighting Pumps	2 x 1660 m ³ /hr @ 13 bar

NAVIGATION & COMMUNICATION EQUIPMENTS

2 Radars: S/X Bands with ARPA, AIS, SSAS, Echo
Sounder, Speed Log, ECDIS
2 x DGPS, 3 x Master Gyrocompass, Magnetic Compass,
Autopilot, PA/SPT/TB
GMDSS for A3 with SSB
Inmarsat C -Capsat Fleet 77, 1 x Navtex Receiver,
2 x VHF stations, 1 x EPIRB, 2 x SART

ACCOMMODATION

Officers	6 Persons
Crew	7 Persons
Special Personnel	11 Persons

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HI 70M Offshore Supply Vessel



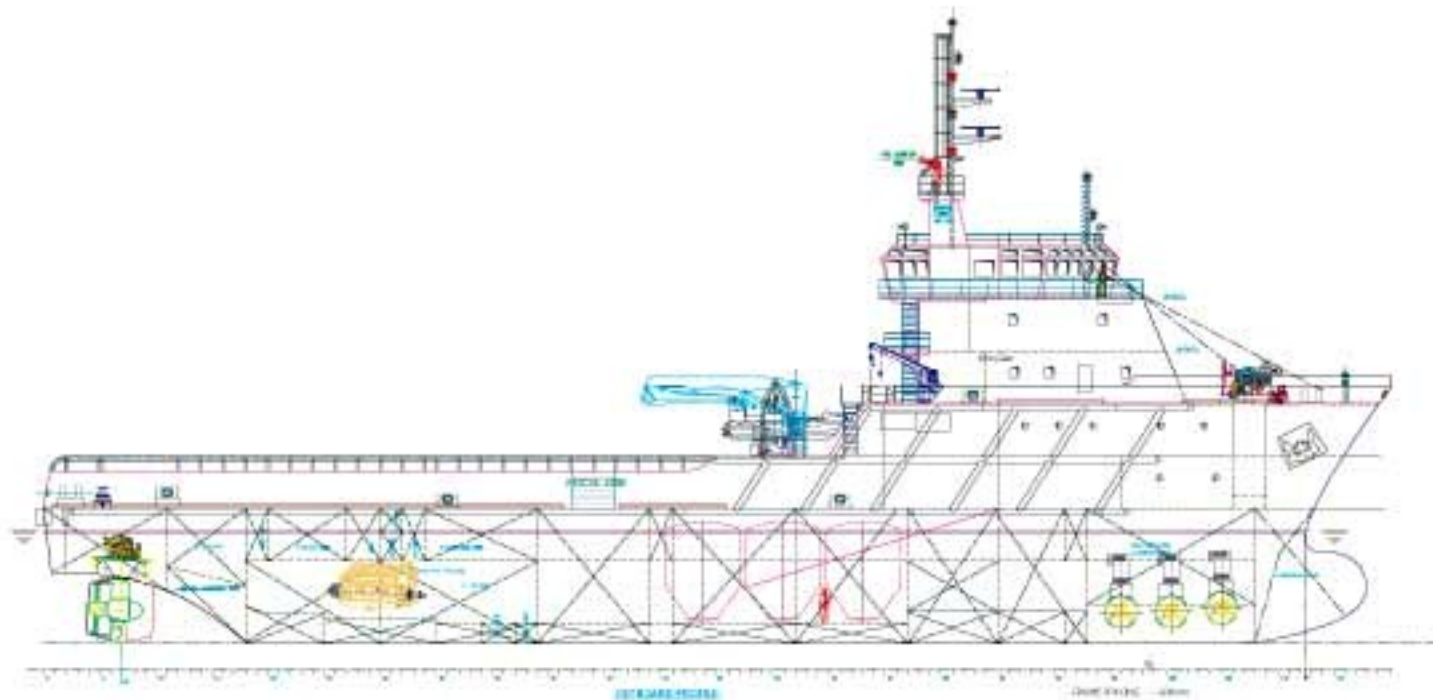
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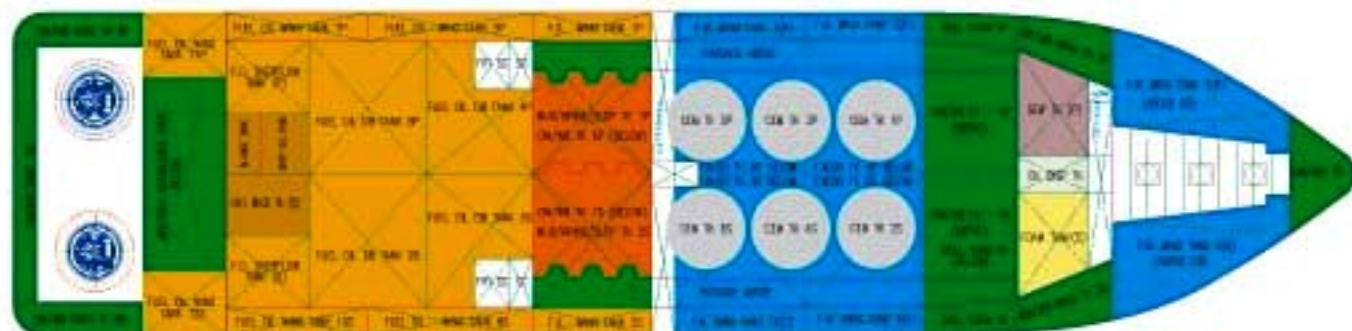
General Arrangement



Profile



Main Deck



Tank Top Plan

TANK CAPACITIES (m³)

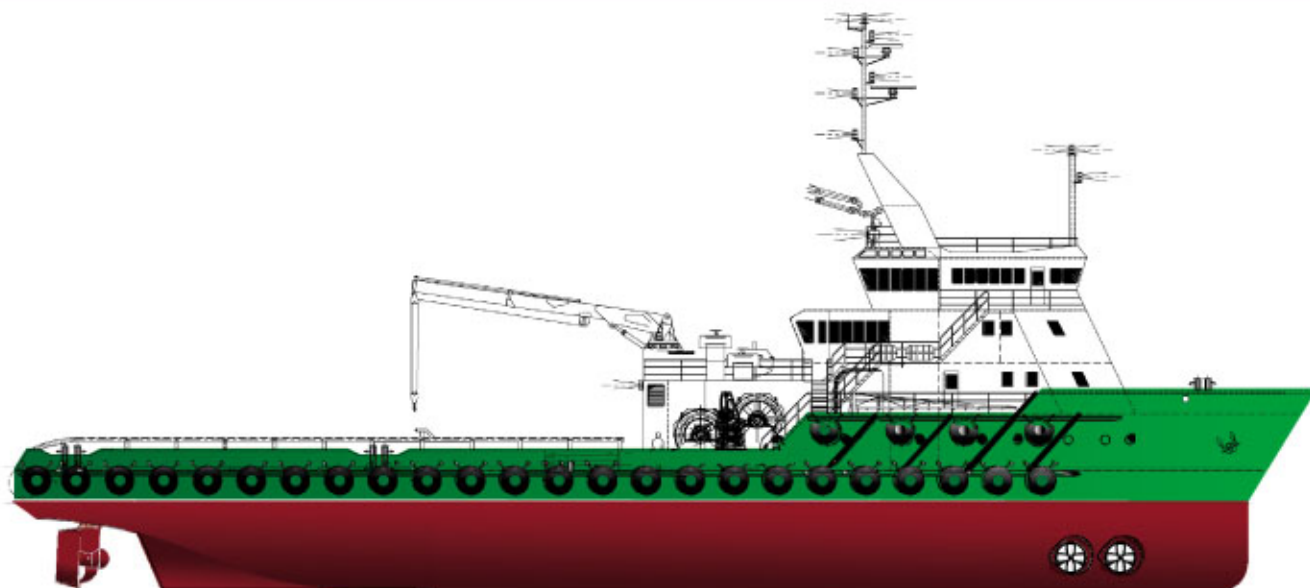
Tank	Content	Potable Water	Drill Water	Fuel Oil	Mud	Brine	Water Ballast	Misc.	Dry Bulk	Lube Oil	Slop
WING 1P	FO			55.71							
WING 2S	FO			55.71							
WING 3P	FO			45.31							
DB 4P	FO			27.86							
DB 5S	FO			27.86							
WING 6S	FO			45.31							
WING 7P	FO			31.53							
DB 8P	FO			42.86							
DB 9S	FO			42.86							
WING 10S	FO			31.53							
WING 11P	FO			37.04							
WING 12S	FO			37.04							
SET P+S	FO			46.33							
DS P+S	FO			32.45							
O.FL P+S	FO			35.31							
WING 1P	FW	112.38									
WING 2S	FW	112.38									
WING 3P	FW	55.51									
DB 4P	FW	38.66									
DB 5S	FW	38.66									
WING 6S	FW	55.51									
WING 7P	FW	61.26									
DB 8P	FW	42.55									
DB 9S	FW	42.55									
WING 10S	FW	61.26									
CEN 11C	FW	89.36									
FPT 1	DW/WB		71.1				71.1				
WING 2P	DW/WB		41.7				41.7				
WING 3S	DW/WB		41.7				41.7				
DEEP 4P	DW/WB		65.1				65.1				
DEEP 5S	DW/WB		65.1				65.1				
DB 6P	DW/WB		38.7				38.7				
WING 8P	DW/WB		23				23				
WING 9S	DW/WB		34.7				34.7				
FRS	WB						182.2				
ARS	WB						102.3				
WING 1P	LO									4.6	
WING 2S	LO									4.6	
WING 3P	LO									4.6	
WING 4S	LO									4.6	
MUD 1P	M/B/S				164.8	164.8					164.8
MUD 1S	M/B/S				183.8	183.8					183.8
BULK 6S	CEM								50		
BULK 5P	CEM								50		
BULK 3P	CEM								50		
BULK 4S	CEM								50		
BULK 1P	CEM								50		
BULK 2S	CEM								50		
O. BILGE S								16.3			
D.OIL P								9.5			
SLUDGE P								6.8			
OIL DISP C								10.8			
SEWAGE P								22.5			
FOAM S								22.5			

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HI 64M Anchor Handling Tug



DIMENSIONS

Length Overall	63.70 m
Length on Waterline	59.68 m
Breadth Moulded	16.00 m
Depth Moulded	6.00 m
Summer Draft	4.35 m

CLASSIFICATION

LRS * 100A1 * LMC FI-FI-1 OFFSHORE
TUG / SUPPLY VESSEL SPS

SPEED

Trial Speed	13.7 Knots
Bollard Pull	64 t

CAPACITIES

Deadweight	1200 t
Fuel Oil	487 m ³
Fresh Water	310 m ³
Oil Dispersant	13 m ³
Foam Tank	20 m ³
Deck Cargo	475 t
Deck Loading	8 t/m ²
Deck Area	280 m ²

MACHINERY

Main Engines	2 x 1685 kW
Main Generators	3 x 405 kW
Emergency Generator	1 x 86 kW
Main Propulsion System	2 x FPP Azimuths
Bow Thrusters	2 x 365 kW
Anchor Handling/Towing Winch	130t @ 0-5 m/min
Deck Crane	10t @10m
Anchor Windlass	7.7t @ 0-10 m/min
Tugger Winches	2 x 10t @ 0-10 m/min
Stern Roller	1.50 m x 5.0 m long
Capstans	2 x 5t @ 0-10 m/min
Fuel Oil Cargo Pumps	2 x 90 m ³ /hr @ 5 bar
Fresh water Maker	1 x 7.5 t/day
Oil Pollution Fighting Equipments Skimmer, Disper, Boom, Inflatable Boom Reel	

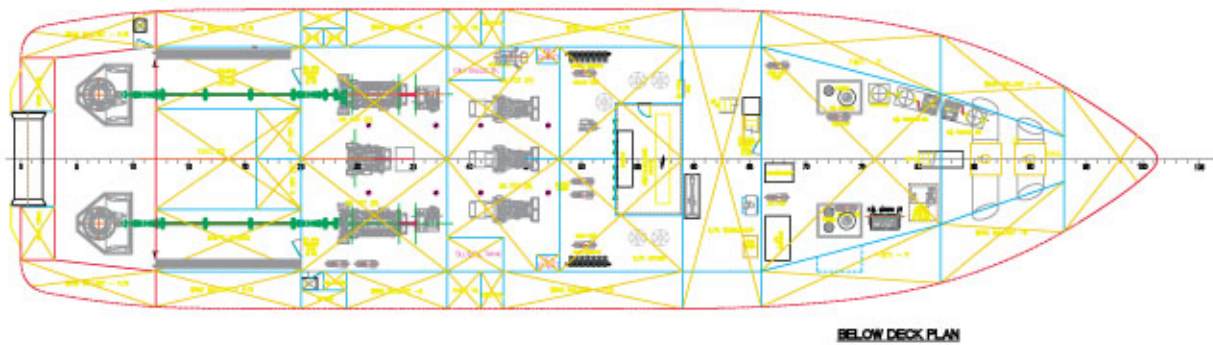
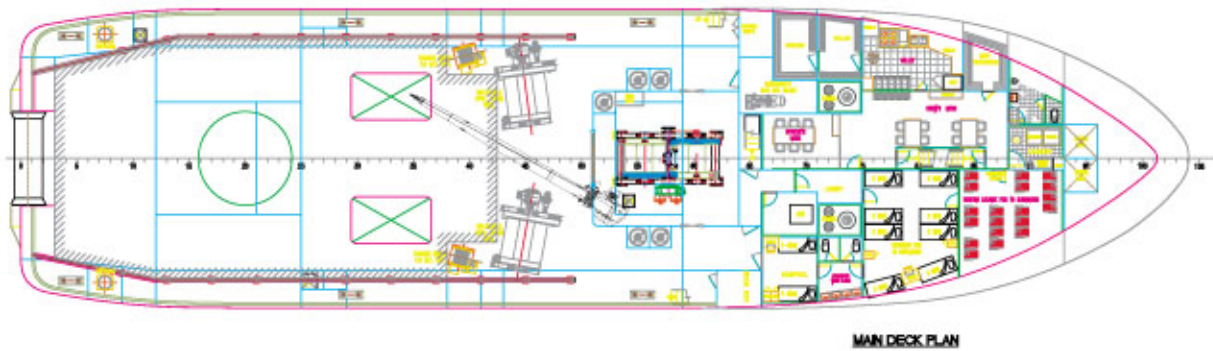
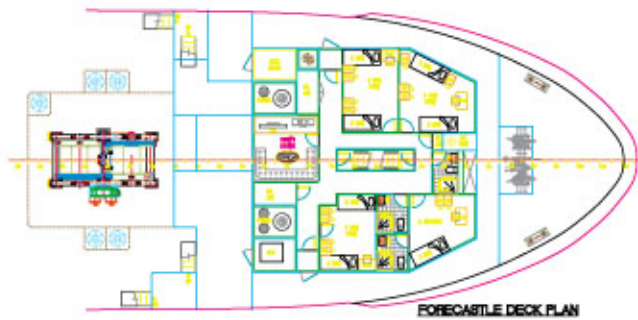
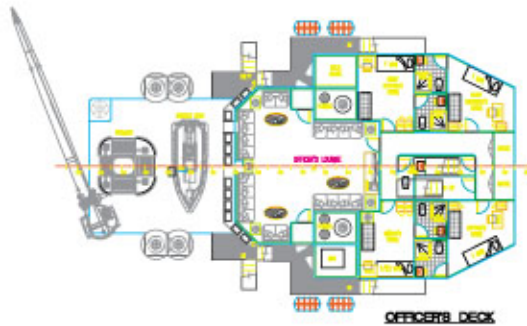
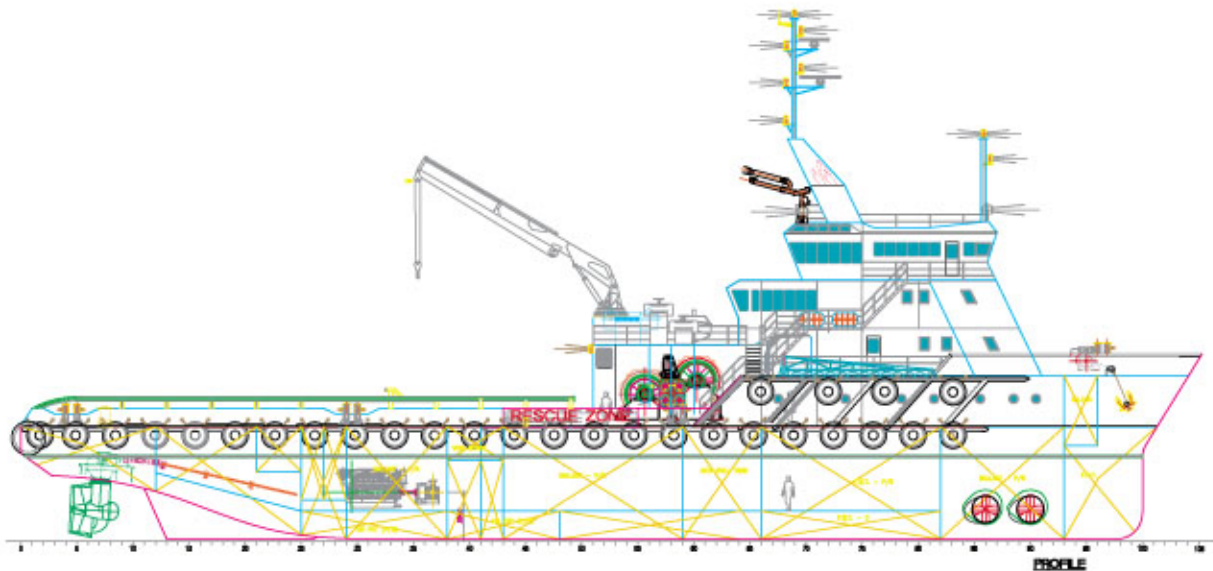
NAVIGATION & COMMUNICATION EQUIPMENTS

2 Radars: S/X Bands with ARPA, AIS, SSAS, SSB,
Echo Sounder, Speed Log, ECDIS

GPS, Master Gyrocompass, Magnetic Compass, GMDSS A2, 1 x
MF/HF SSB Navtex Receiver, 2 x VHF, 1 x EPIRB, SART, PA/SPT/TB

ACCOMMODATION

Officers	7 Persons
Crew	12 Persons
Special Personnel	35 Persons



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HI 60M Offshore Construction Support Vessel



DIMENSIONS

Length Overall	60.11 m
Length on Waterline	57.00 m
Breadth Moulded	17.00 m
Depth Moulded	5.50 m
Summer Draft	4.10 m

CLASSIFICATION

ABS * A1 E OFFSHORE SUPPORT VESSEL
* AMS DPS-2 SPS

SPEED

Trial Speed	10.5 Knots
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CAPACITIES

Deadweight	1100 t
Fuel Oil	400 m ³
Fresh Water	500 m ³
Drill Water / Water Ballast	300 m ³
Refrigerated Stores	50 m ³
Deck Cargo	500 t
Deck Loading	5 t/m ²
Covered Deck Area	150 m ²
Deck Area	500 m ²

MACHINERY

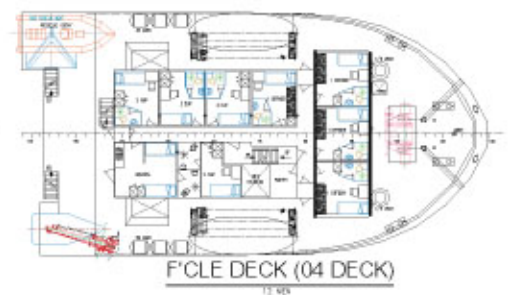
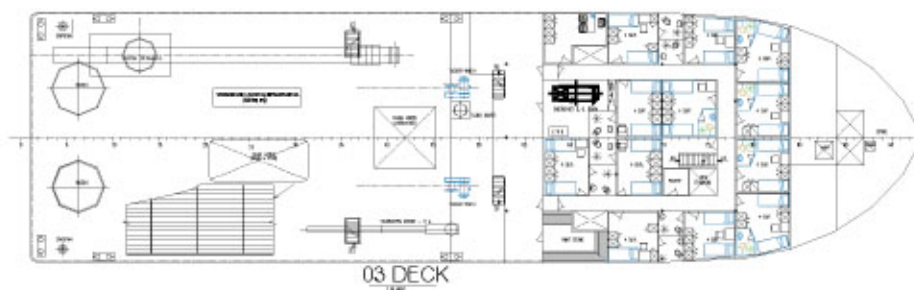
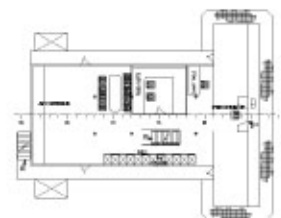
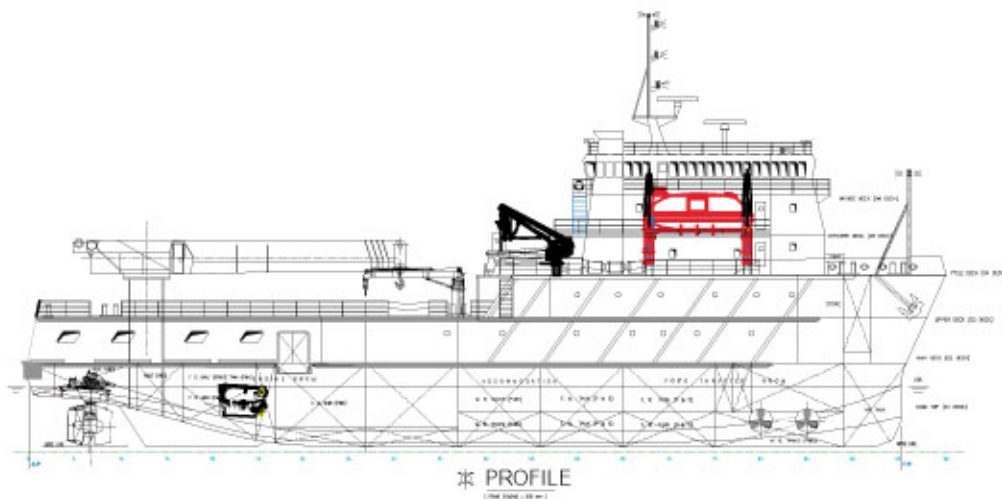
Main Engines	2 x 1080 kW
Main Generators	3 x 700 kW
Harbour Generator	1 x 250 kW
Emergency Generator	1 x 64 kW
Propulsion System	2 x Schottel SRP 1010 FP Azimuths
Bow Thrusters	2 x 500 kW
Fresh Water Maker	1 x 30 t/day
Service air Compressors	555 CFM @ 8 bar
Deck Crane	42 t @ 12 m
Anchor Windlass	7.5 @ 0-10 m/min
Capstans	2 x 10t @ 0-10 m/min
Bilge/Ballast Pump	1 x 100 m ³ /hr @ 2.5 bar
Oil Transfer Pump	1 x 50 m ³ /hr @ 5 bar
Fresh Water Transfer Pump	1 x 50 m ³ /hr @ 5 bar

NAVIGATION & COMMUNICATION EQUIPMENTS

2 Radars: S/X Bands with ARPA, AIS, SSAS, Echo Sounder, Speed Log, ECDIS
2 x DGPS, 3 x Master Gyrocompass, Magnetic Compass, Autopilot, PA/SPT/TB GMDSS A1-A3, Navtex Receiver,
2 x VHF with DSC, 2 x EPIRB, 2 x SART,

ACCOMMODATION

Officers	13 Persons
Crew	12 Persons
Special Personnel	65 Persons



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HI 50M Research Vessel



DIMENSIONS

Length Overall	49.60 m
Length on Waterline	45.94 m
Breadth Moulded	13.00 m
Depth Moulded	4.90 m
Summer Draft	3.25 m

CLASSIFICATION

LRS * 100 A1 RESEARCH VESSEL
*LMC DPS 1

SPEED

Trial Speed	13.5 Knots
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CAPACITIES

Deadweight	325 t
Fuel Oil	265 m ³
Fresh Water	80 m ³
Lube Oil	6 m ³
Refrigerated Stores	50 m ³
Oily Bilge	5 m ³
Hydraulic oil	2 m ³
Deck Loading	5 t/m ²
Deck Area	100 m ²

MACHINERY

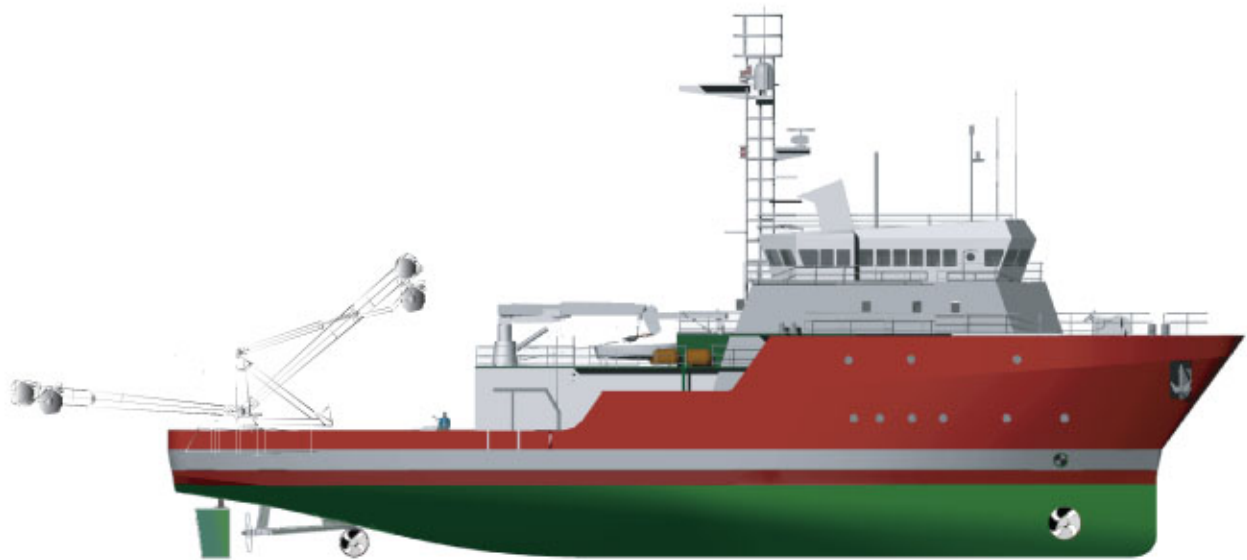
Main Engines	2 x 1440 kW
Main Generators	2 x 200 kW
Shaft Generators	2 x 500 kW
Emergency Generator	1 x 50 kW
Propulsion System	Twin Screw CPP
Bow Thrusters	1 x 220 kW F.P. Tunnel Thruster
Stern Thruster	1 x 300 kW Pumpjet
Fresh Water Maker	1 x 4 t/day
Deck Crane	3.0t @10m
Anchor Windlass	5t capacity @ 0-9 m/min
Capstans	2 x 5t capacity @ 0-15 m/min
Traction Winch	1 x 10t pull, 2000m wire rope, 22mm
Hydrographic Winch	2 x 900 kg SWL, 2500m wire rope, 9mm
Laboratories	1 x Wet, 1 x Dry, 1 x Hydrographic, 1 x Chemistry
Other Work Spaces	1 x Dark Room, 1 x Acoustic Room

NAVIGATION & COMMUNICATION EQUIPMENTS

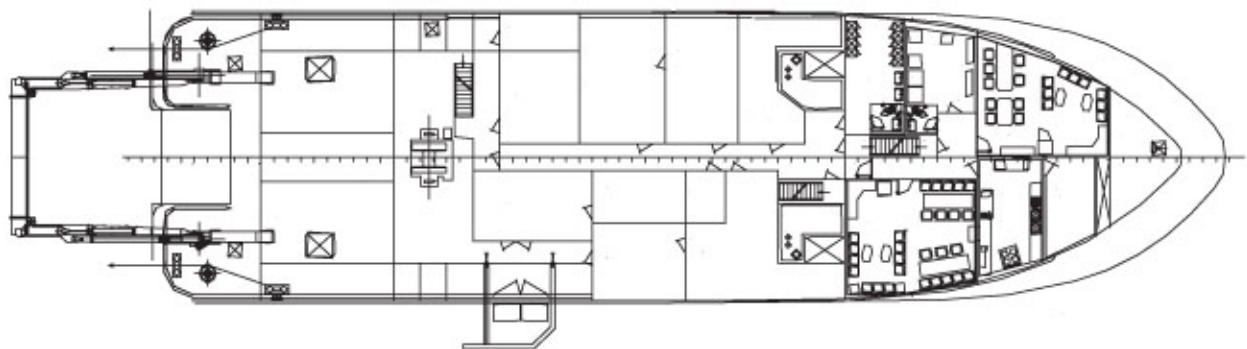
X/S band Radars with ARPA, Echo Sounder, Speed Log, Magnetic Compass, 2 x Gyro
AIS, SSAS, GPS, GMDSS A3, Navtex Receiver, 2 x VHF, 2 x EPIRB, 2 x SART, PA/SPT

ACCOMMODATION

Officers	4 Persons
Crew	8 Persons
Special Personnel	12 Persons



Profile



Main Deck



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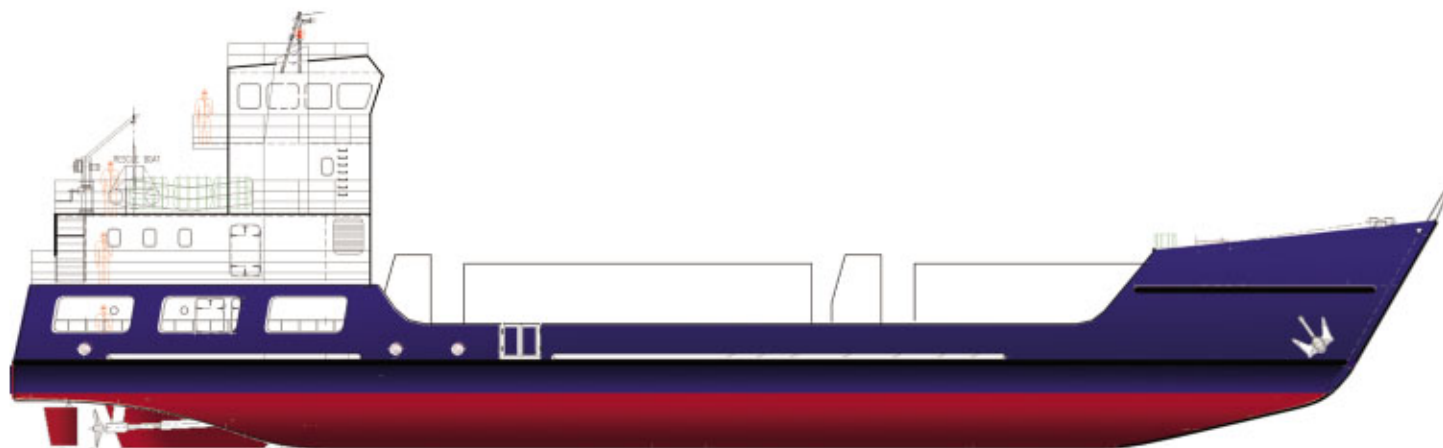
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HI 48M Landing Craft



DIMENSIONS

Length Overall	48.00 m
Length on Waterline	44.60 m
Breadth Moulded	11.40 m
Depth Moulded	3.00 m
Summer Draft	2.00 m

CLASSIFICATION

BV I * HULL * MACH SPECIAL SERVICE LANDING CRAFT
PASSENGER CARRIER COASTAL SERVICE

SPEED

Trial Speed	11 knots
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CAPACITIES

Deadweight	400 t
Fuel Oil	50 m ³
	45 m ³
Water Ballast	215 m ³
Lube Oil	2 m ³
Sludge Tank	2 m ³
Deck Cargo	350 t
Deck Loading	10 t/m ²
Deck Area	350 m ²

MACHINERY

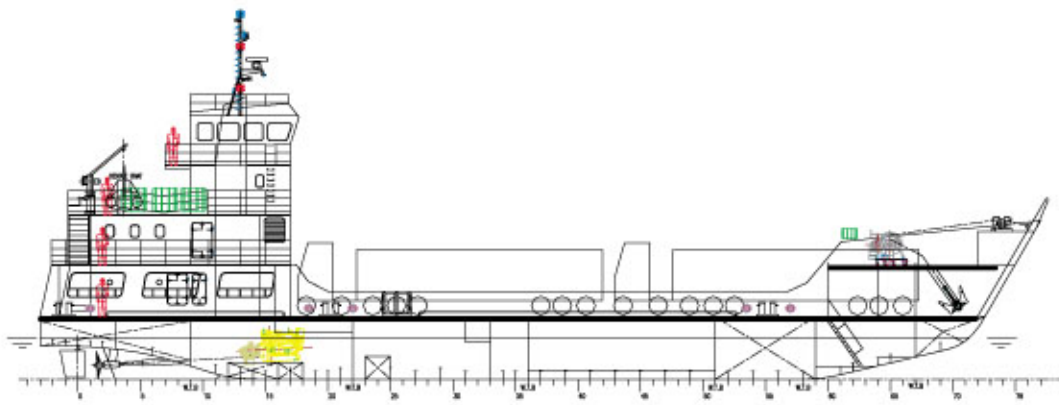
Main Engines	2 x 610 kW
Main Generators	2 x 108 kW
Emergency Generator	1 x 70 kW
Main Propulsion System	Conventional Twin Screw
Anchor Windlass	2 x 6t @ 0-8 m/min
Windlass Drum Capacity	45 m of fl 26 SWR
Forward Ramp Size (LXB)	6.575 x 7.360 m
Air Conditioning System	Split units for passenger/crew cabins

NAVIGATION & COMMUNICATION EQUIPMENTS

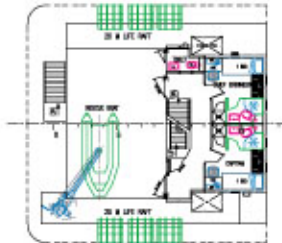
Radar with ARPA facility	1 No.
Echo Sounder	1 No.
GPS	1 No.
Automatic Identification System	1 No.
Speed Log	1 No.
Magnetic Compass	1 No.
Navtex Receiver	1 No.
GMDSS unit for Area A1/A2	1 No.
PA, SPT, EOT systems	1 each

ACCOMMODATION

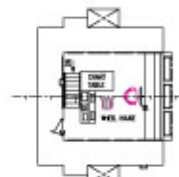
Officers	2 Persons
Crew	6 Persons
Passengers (Seating Capacity)	88 Persons



PROFILE



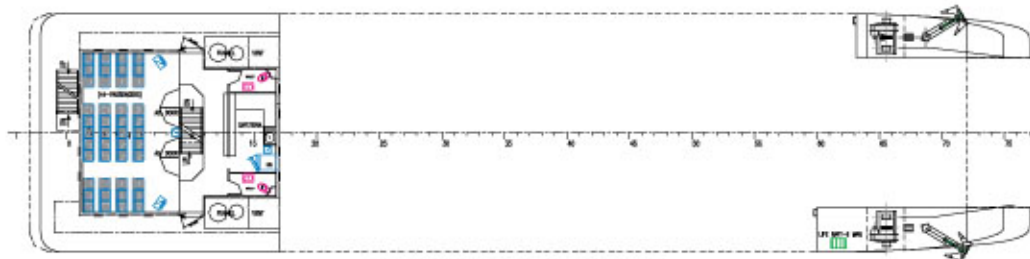
02 DECK PLAN



BRIDGE DECK PLAN

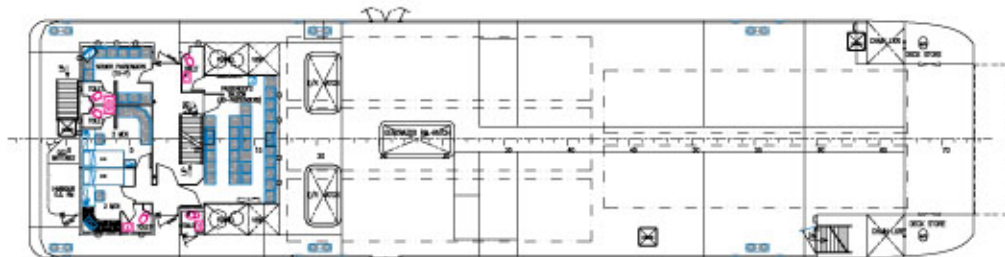


PLATFORM ABOVE F' CASTLE DECK



"01" DECK / FCLE DECK PLAN

PROPOSED - 44



MAIN DECK PLAN

PROPOSED - 44



TANK PLAN



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