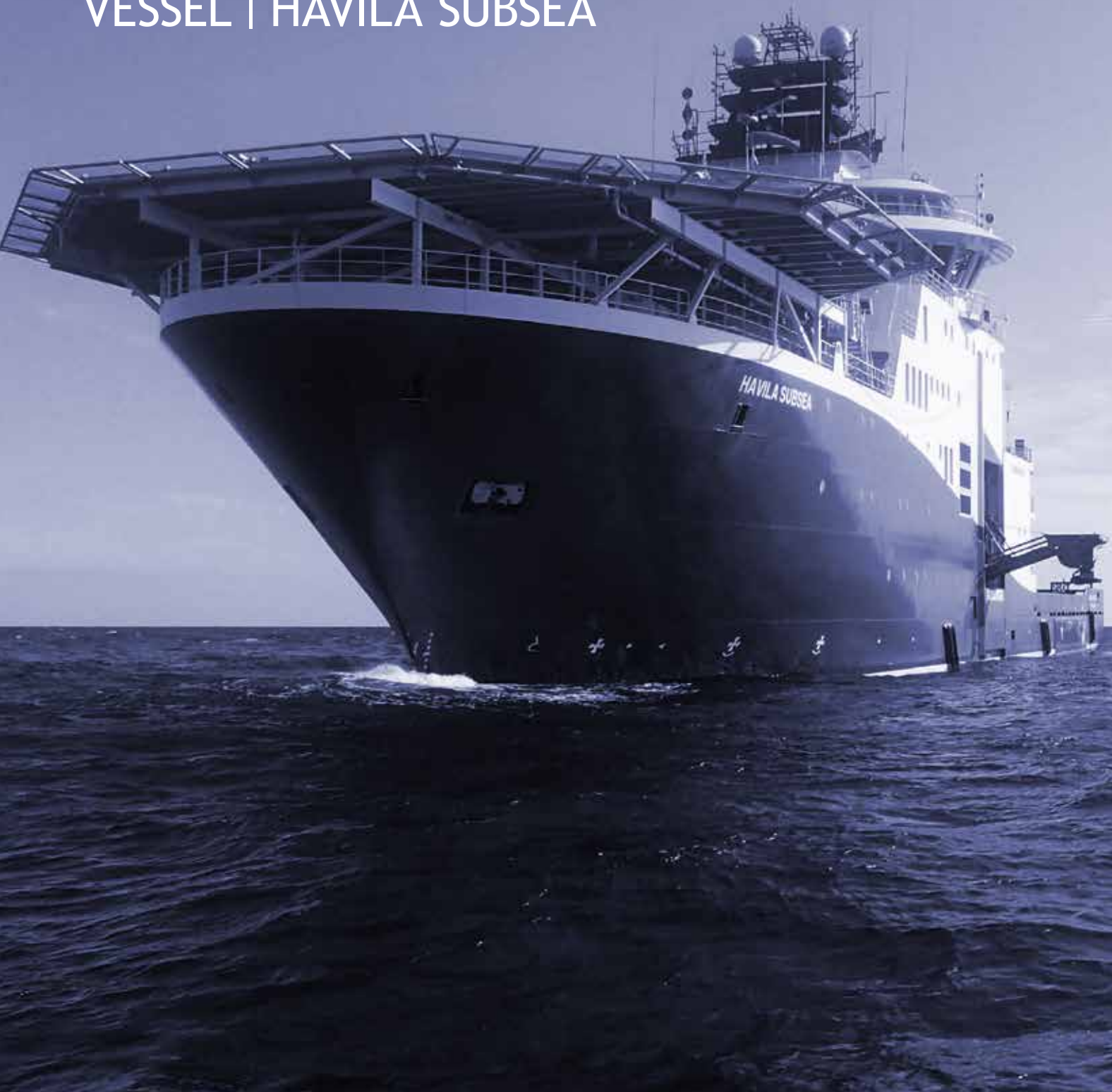


# OFFSHORE SURVEY & ROV

VESSEL | HAVILA SUBSEA



# M/V HAVILA SUBSEA SHIP DATA



## TYPE OF VESSEL

DP2 Survey & ROV Vessel

## SPECIFICATIONS

**Flag:** Norwegian  
**Port of Registry:** Fosnavaag  
**Call sign:** LGSY  
**IMO No:** 9505508  
**Class:** LR (Lloyds Register)  
**Class Notation:** DNV + 1A1 - E0 - DYNPOS AUTR-SF -  
 DK (+) - CLEAN DESIGN COMF(C3)(V3)-  
 NAUT - AW - HELDK - SH - ICE C - DEICE

## BUILDER AND DIMENSIONS

**Builder:** Havyard Leirvik  
**Date of build:** June 2011  
**LOA:** 98 m  
**Length b.p.p.:** 84 m  
**Breadth moulded:** 19.8 m  
**Freeboard. min.:** 2 m  
**Draft max:** 8 m  
**Gross tonnage:** 2565 t  
**Net tonnage:** 5947 t

## PERFORMANCE/CONSUMPTION AT 6.50M DRAFT

**1 El motor:** 8.25 knots/ 9.40 m<sup>3</sup>/24 hrs  
**2 El motor:** 11.10 knots/ 22.25 m<sup>3</sup>/24 hrs  
**3 El motor:** 13.90 knots/ 31.20 m<sup>3</sup>/24 hrs  
**Max speed:** 15.50 knots / 47.25 m<sup>3</sup>/24 hrs  
**DP Operation avg. winter North-Sea** 12.20 m<sup>3</sup>/24 hrs

## PROPULSION

**Main propulsion:** 2 x Ulstein Aquamaster AZP 120 CP NBC 35TME. 3500 kW  
**Stern tunnel thruster:** 2 x Ulstein Aquamaster AZP 120 CP NBC 35TME  
**Fwd. tunnel thruster:** 1 x Kamewa Ulstein TT2400 DPN CP. 1500 kW  
**Fwd. retractable thruster:** 2 x Ulstein Aquamaster Azimuth Thruster UL 2001 FP. 1500 kW

## LIFE SAVING EQUIPMENT

**Safety Equipment:** Acc to NMD/SOLAS for 78 persons  
**Life raft:** 6 x 32 + 2 x men  
**Rescue boat:** Type Alusafe 770. 10 persons  
**Survival suits:** 78 persons

## WINCHES (SWL WIRE DEPENDING):

**Stern:** 18 mm rotation free wire 900 m  
 SWL 6 MT  
 10.0 mm signal FO wire 2100 m  
**Side:** 11.3 mm single coax 2500 m  
 12.0 mm rotation free 2000 m

## CRANES

1 x AHC Offshore Crane (RR Odim)  
**Main winch:** 150 t (in air). wire length 2000 m  
**Aux. winch:** 10 t/1500 m (Personnel lift)  
 1 x Deck Crane (RR Odim) 5 t 10 m outreach  
 3 x EFFER foldable crane 3 t/10 m

## COMMUNICATION EQUIPMENT

1 x Furuno MF/HF/DSC Semi Duplex&Simplex Radio Station FS-2570.  
 1 x Furuno MF/HF/DSC Semi Duplex &Simplex Radio Station FS-1570.  
 2 x Jablo com GSM-terminal for fax and voice.  
 1 x Globe surfer II HSDPA-router with tri band solution.  
 Inmarsat-C. 1 x Furuno NX- 700-B Navtex Receiver  
 3 x GMDSS approved portable VHF. Model TRON TR-20  
 2 x Jotron Radar Transponder. Model TRON SART  
 1 x JOTRON EPIRB Automatic. Model TRON 40S  
 1 x JOTRON EPIRB Manuel. Model TRON 45SX  
 1 x Furuno INMARSAT-C w/ EGC. Model FELCOM 15  
 1 x Furuno INMARSAT Broadband 500  
 1 x Sailor TT-3000 SSAS. Ship Security Alert System  
 2 x Sailor RT5020 Duplex VHF for GMDSS/ DSC  
 3 x Sailor RT2048 Simplex VHF / DSC  
 3 x MOTOROLA Fixed UHF. GM- 380  
 8 x MOTOROLA Portable UHF. GP388R  
 2 x MOTOROLA Portable UHF. EX approved. GP380  
 3 x MOTOROLA GP388R VHF  
 2 x ICOM AERONAUTICAL VHF. Model IC-A110E  
 3 x ICOM AERONAUTICAL Portable VHF. Model A6E  
 1 x HELIBEACON. Model TS-20B Single

## ACCOMMODATION

78 berths  
 22 x 1 man cabins  
 28 x 2 men cabins  
 6 off office  
 1 off Hospital  
 2 off Conference room  
 1 off Sky lobby  
 1 off Offline room  
 1 off Online room  
 1 off Heli-reception

# EQUIPMENT



## NAVIGATION AND POSITIONING

1x Radar:	Furuno FAR-2137S Arpa-S
1 x Radar:	Furuno FCR-2117 Chart Arpa-X
1 x Radar slave monitor aft bridge	
1 x AIS Transponder:	Fa-150
3 x Gyro:	Anschutz Standard 22 GGG-R
1 x Autopilot:	Anschutz Adaptive Autopilot. Nautopilot 2025-C
2 x DGPS:	Furuno GP- 150
1 x VDR:	Furuno VR-3000
1 x Echo Sounder:	Furuno FE-700
1 x Echo Sounder:	Furuno FCV- 1200
1 x Doppler Log:	Furuno DS-80
2 x Elec. Chart:	ECDIS type TECDIS
1 x Slave Elec. Chart:	ECDIS type TECDIS
1x Navtex Furuno NX-700B	
1x Conning system:	Furuno
1 x Sound Reception System:	VSS-111
1 x Bridge Watch Monitoring System	

## OFFLINE SOFTWARE

Arc GIS  
Autodesk AutoCAD Map 3D  
CARIS HIPS & SIPS  
Chesapeake SonarWiz  
EIVA NaviSuite  
IXSEA DelphINS  
Oasis Montaj incl UXO Marine  
POSPac MMS  
QPS/IVS Processing Suite  
SMT Kingdom  
TerraPos  
Visual Soft Visual Works  
Wish software Autochart

## SUBSEA AND INSPECTION EQUIPMENT

SROV:	Surveyor Interceptor
WROV:	2 x Shilling ROV
Launch and recovery system	Op. sea state 4.5 m Hs
Vibrocorer:	6/3 m system
Corers:	Piston/gravity corer 6/3 m
Samplers:	Box corer/Grab sampler
Gradiometer:	GMA1000 12 sensor system
PCPT:	Neptune 5000
Drop Camera:	Roson R100 MMT HD Drop Camera

## BATHYMETRY AND GEOPHYSICS

Primary GNSS	Veripos Apex
Secondary GNSS	Veripos Ultra
Primary Vessel Heading & Attitude	Kongsberg Seapath 300 with MRU5
Secondary Vessel Heading & Attitude	Kongsberg Seapath 300 with MRU5
Primary USBL System	HiPAP 501
Secondary USBL (where applicable)	HiPAP 501
Sound Velocity / CTD Sensor	Valeport Midas SVX2
Air pressure sensor	Vaisala
USBL responder	Kongsberg Cnode
USBL transponder	Kongsberg Cnode
Primary ROV Heading & Attitude	IxBlue ROVINS
Secondary ROV Heading & Attitude	IxBlue Octans
ROV INS	IxBlue ROVINS
ROV Doppler	Workhorse 1200 kHz
ROV Depth Sensor	Valeport mini IPS
ROV MBES	R2 Sonic 2024 Dual Head
ROV Altimeter	Tritech PA500
ROV CTD System	Valeport mini CT
ROV Stills camera	5 x Cathx M12-A1000
ROV Flash system	8 x Cathx Aphos32
OAS	Gemini
Boom Arms	Yes (Total width 6 m)
ROV Video cameras	3 x Insite Pacific Pegasus
ROV low light camera	
Video recording system	Two 2x SD channels

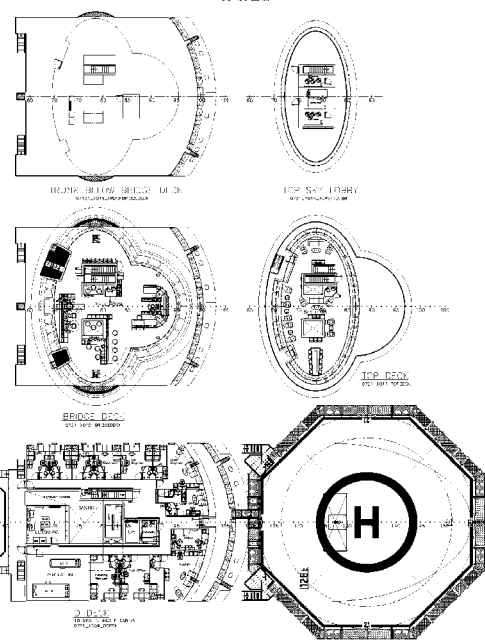
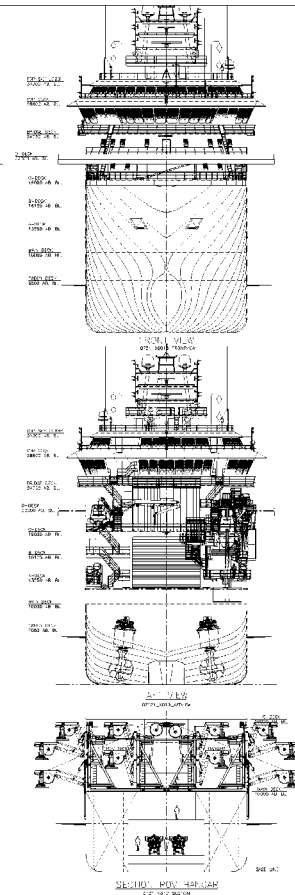
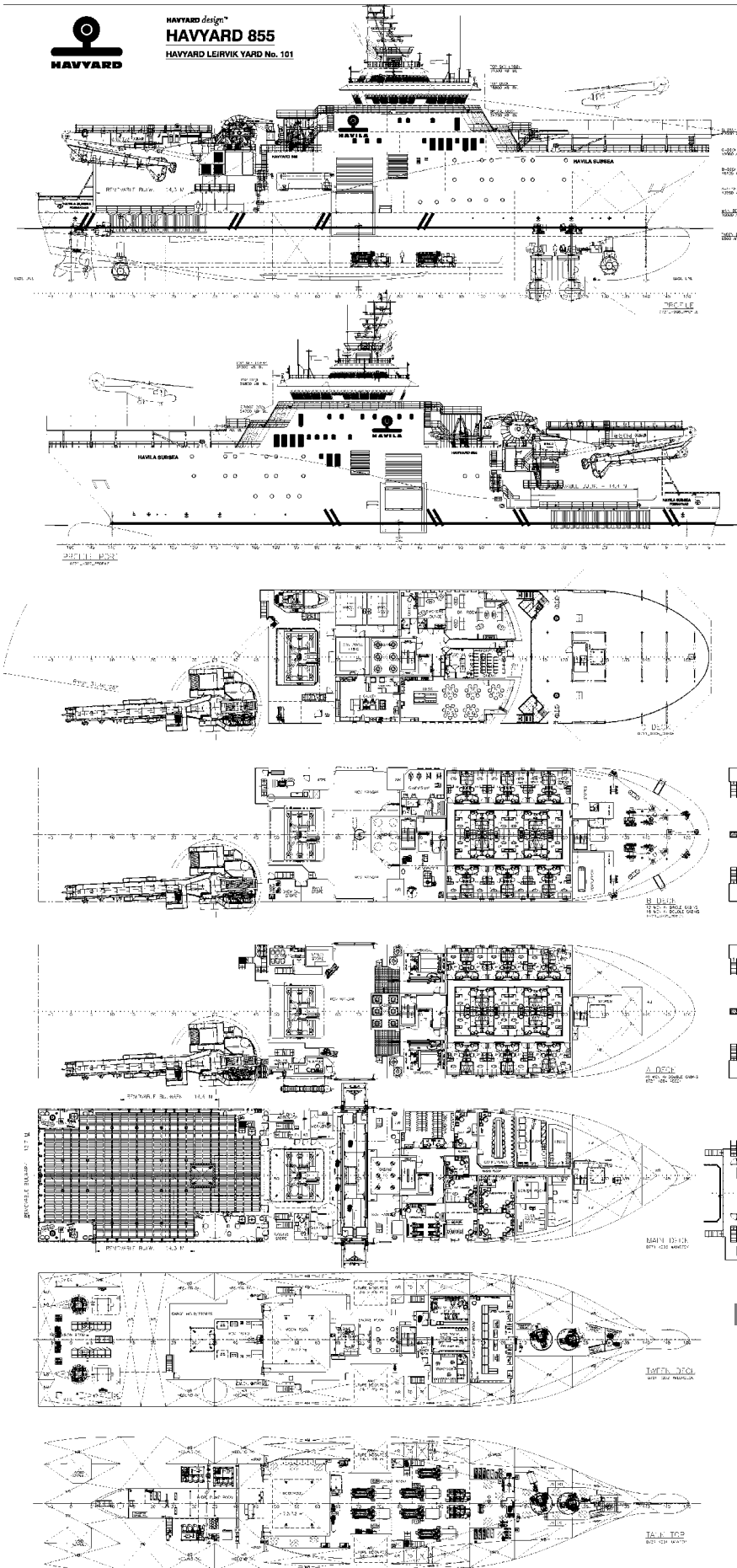




# SPECIAL PURPOSE VESSEL



HAVYARD design™  
**HAVYARD 855**  
 HAVYARD LEIRVIK YARD No. 101



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<b>Call Sign:</b> LGSY	
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