



CONSTRUCTION/CLASSIFICATION

Type/design	DP2 MT6022XL
Built by	Hanjin Heavy Industries - Pusan, South Korea
Year of construction	2011
Flag	Marshall Islands
Classification	DNV ✱ 1A1, CLEAN, CRANE, DSV-SAT, DSV-SURFACE, DYNPOS-AUTR, EO, HELDK-SH, COMF V(3), DK(+), SF
IMO number	9441233
ISM/ISPS	Vessel is ISM/ISPS certified by DNV/GL on behalf of Marshall Islands Flag

FEATURES

State-of-the-art 18-man Twinbell saturation diving system rated to 300 m
Main crane 140 t active heave compensated
2 x 18-man hyperbaric lifeboats
2 x DDC & 2x LARS for surface diving
Accommodation for 120 persons
Main deck area 1,120 m ² with 10 t/m ²
Seaeye Cougar Light Work Class ROV system

MAIN DATA

Length overall	115.40 m
Length BPP	107.40 m
Beam	22.20 m
Depth main deck	9.00 m
Depth shelter deck	11.80 m
Draft max. (S.l.d)	7.035 m
Displacement	12,565 t @ 0.0 m trim
Deadweight	5,662 t @ 0.0 m trim
Gross tonnage	8,691 GT
Net tonnage	2,608 NT
Cargo main deck space	1,120 m ² (deck strength 10 t/m ²)
Forecastle deck space	235 m ² (deck strength 6.5 t/m ²)
Deck load capacity	3,300 t
Fuel oil	1,440 m ³
Lube oil	53 m ³
Potable water	1,160 m ³ + 40 m ³ /day water makers
Ballast water	5,122 m ³
Anti-heeling	940 m ³

SATURATION & AIR DIVING SYSTEMS

SATURATION EQUIPMENT SPREAD

Drass Galeazzi 18-man twin bell system rated at 300 msw

2 x 3-man bells, each 6.0 m³

Bell handling system with active shock absorption system

Bell handling approved to launch in 4m Hs

2 x 6-man DDC (D/L) + 2 x 3-man DDC (D/L) (2,200 mm dia)

2 x SPHL - hyperbaric lifeboats (18 man capacity each)

2 x TUP chambers (for dive bell mating)

Drass Manufactured LSP

GAS STORAGE

18,000 m³ gas storage below deck, gas transfer, chamber & diver gas reclaim systems

AIR DIVING SPREAD

2 x DDC (D/L) and 2 x 2-man LARS Air Dive System

Fathom diver Monitoring System

DYNAMIC POSITIONING SYSTEM

GE Converteam ADP-21, dual redundant dynamic positioning system (AUTR/DPII) with DP references as follows:

1 x DGPS/GLONASS system comprising, 2 x VERIPOS LHD@-CGG2 integrated mobile unit for L1/L2 dual frequency GPS and GLONASS capability and integrated L-Band satellite and IALA/HF differential modulators

2 x DGPS C-NAV

1 x CYSCAN laser reference system (heated version)

3 x motion reference sensors TSS DMS-10

2 x taut wire MK15 – NTD A-Frame 500 m wire length

3 x Anemometer (with heating) Gill Wind Observer II
Hydro-acoustic USBL Ranger Pro (4,500 m capacity)

3 x Ship's wideband transponders type Sonardyne DPT 8124 (3,000 msw depth rating)

MACHINERY

Main generators 3 x 2,510kW, 690V/60Hz, 720 rpm

2 x 1,880kW, 690V/60Hz, 720 rpm

Auxiliary generators 2 x 835kW, 690V/60Hz, 1,200 rpm

Emergency generator 1 x 910kW, 1,800 rpm

Bow thrusters Wartsila, 2 x 1,900 kW tunnel thrusters

Bow azimuth Wartsila, 1 x 1,500 kW retractable thruster

Stern thrusters Wartsila, 2 x 3,000 kW azimuth thrusters

BOKA DA VINCI

DIVE SUPPORT VESSEL

FUEL CONSUMPTION

At full speed 13 knots 30 t MGO/day

Cruising speed 11 knots 20 t MGO/day

In DP mode 10 -12 t MGO/day
(depending on weather)

At sea standby engines 5 t MGO/day (at calm sea)

In port or at anchors 3 t MGO/day (domestic use only)

MAIN CRANE (STBD)

TTS Marine 140 t crane type CCLKO 1600-140-35 - Active Heave Compensation (AHC) knuckle boom offshore crane. Wire dia 56 mm.

Main winch - dynamic factor 1.3

140 t – 2 fall 5.5 to 7 m radius - hook depth 600 m

70 t – 1 fall 5.5 to 10 m radius - hook depth 1,200 m

12 t – 1 or 2 fall at max radius 35 m - hook depth 1,200 m

Auxiliary winch - dynamic factor 1.54

10 t – 1 fall 5.5 to 33 m radius - hook depth 150 m

Personnel lifts 0.75 t at radius 5.5 to 33 m

AUXILIARY CRANE (PORT)

TTS Marine 40 t crane type CCLO 1250-40-27. Wire dia 28 mm.

Main winch - dynamic factor 1.3

40 t – 4 fall 5.5 to 13.5 m radius - hook depth 150 m

20 t – 2 fall 5.5 to 27 m radius - hook depth 300 m

10 t – 1 fall 5.5 to 27 m radius - hook depth 600 m

Auxiliary winch - dynamic factor 1.54

3 t – 1 fall 5.5 to 27.8 m radius - hook depth 50 m

Personnel lifts 0.5 t at radius 5.5 to 27.8 m

HELI DECK

Construction 22.2 m diameter aluminium

Load capability Sikorsky S92 - max take-off weight 12 t
Sikorsky S61 - max take-off weight 9.3 t

Compliances DNV HELDK-SH, IMO regulations, CAP 437

Sky lobby Allocated for in/out going passengers

PERFORMANCE CAPACITIES

Fuel autonomy	About 90 days (based on average use of 11 t per day)
Diving gas autonomy	About 60 days (based on 18,000 m ³ storage capacity) 3,000 m ³ kept for safety and 200 m ³ use per day depending water depth.
Drinking water autonomy	Self-sufficient (based on onboard water makers 2pcs x 40 t, production capacity 40 t/day - 1pc in use at a time)
Station keeping	ERN 99.99.98.85/99.99.98.97

ACCOMMODATION & RECREATIONAL FACILITIES

Total of 120 persons	Full A/C in all cabins, mess rooms, control rooms and offices 23 x 1-man cabins 46 x 2-men cabins 2 x (2+2)-men cabin (Pullman) 123 beds in total
Hospital	4 beds
RECREATIONAL FACILITIES	
Exercise room	21.5 m ² gymnasium
Mess rooms	50 seats
Day rooms (2)	16 seats (officers) and 20 seats (others)
Cinema/training room (1)	30 seats
Internet café (1)	6 seats and 6 stations

OFFICES & MEETING ROOMS

Main meeting room	10 seats (close to crew day room)
Project meeting room	12 seats (close to project offices)
Client's offices with workstation	3 offices available, 1 x fixed VHF, 1 x clearcom
Offshore Manager Office	1 office
Div. Supt/ROV Supt Office	1 office
Project Engineering Office	1 office
Field Engineers Office	1 office
On Line Survey room	1 office
Ship's office	1 office including lounge and conference table

BOKA DA VINCI
 DIVE SUPPORT VESSEL

MOONPOOLS

BELL
2 x (3.9 m x 3.9 m) aerated
WORKING
1x (5 m x 5 m) clear space, excluding baffles. A 2,500 mm perimeter area around the working moon pool strengthened with additional 25 mm plate for equipment handling or work structure installation

NAVIGATION EQUIPMENT

RADAR PLANT
1 x ARPA, Furuno FCR-2837S chart 10 cm/S band
1 x ARPA, Furuno FAR-2117 3 cm/X band
NAVIGATION/DIRECTION FINDER
1 x NMEA distribution unit
2 x GPS Furuno GP-150
2 x AIS type Furuno Universal AIS FA-150
2 x ECDIS type Furuno w/interface to radars, DGPS, Echo Sounder, AIS System, gyro
GYRO PLANT/AUTOPILOT
3 x gyro compass, Sperry Marine model Navigate MK1
1 x Anschutz Std 22
COMPASS
2 x bearing compass with brackets
1 x magnetic compass with digital repeater
1 x autopilot, Sperry model Navi Pilot 4000
ECHO SOUNDER & SPEED LOG
1 x echo sounder, Furuno FE 700 (colour)
POSITIONING
EIVA positioning software
POSITIONING/VIDEO MONITORS
Cabling to posit/video monitors in key personnel/client's cabins as well as bridge, dive, ROV and project and client's offices

COMMUNICATION EQUIPMENT

GMDSS A3 RADIO STATION

2 x satellite V-system w/interface to email system

1 x MF/HF 150W simplex radio station

2 x Inmarsat C

1 x FBB

1 x receiver type Furuno Navtex 500

VHF & UHF

2 x duplex VHF stations w/DSC and multi watch, type Sailor RT4822, one with slave handset in hospital

2 x simplex VHF station w/dual watch, slave handset in ECR

3 x UHF type Motorola GM380

3 x UHF radio, stationary model type GP950

1 x GSM radio w/line interface and antenna

DIGITAL COMMUNICATION

Twin V-Sat with internet (Marlink WiFi, LAN Connection). High speed data transfer and desktop terminal w/17" flat screen monitor

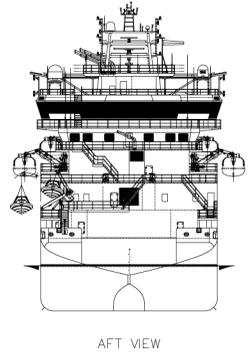
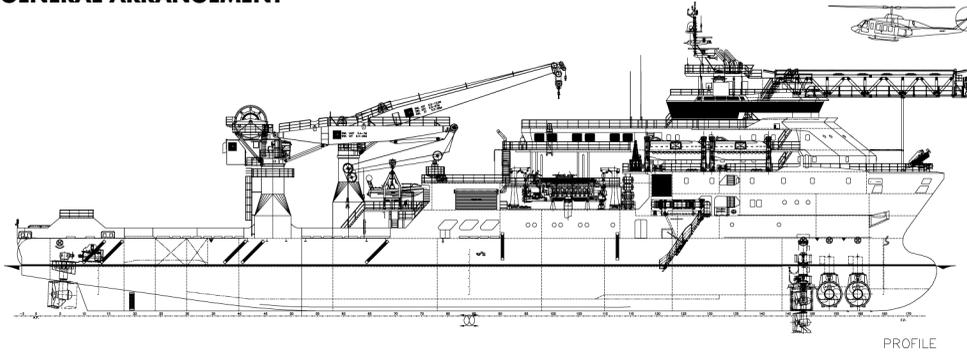
NAVIGATION / VIDEO SCREEN

Digital video network sharing w/10 multiple audio/video channels

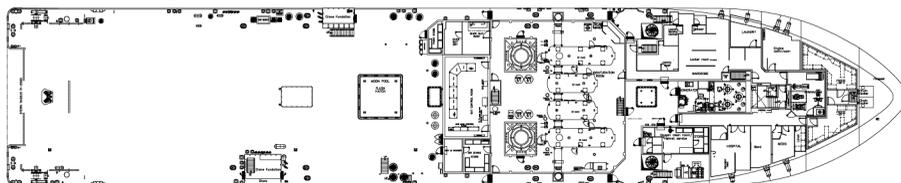
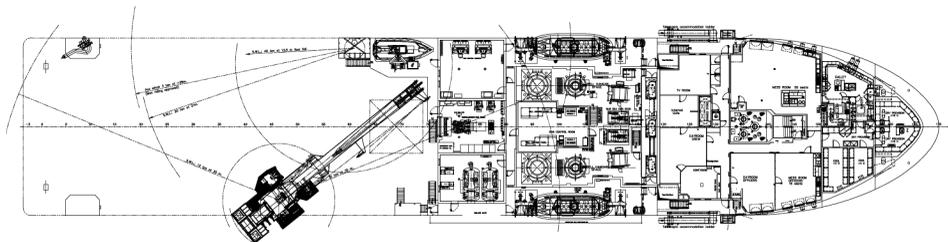
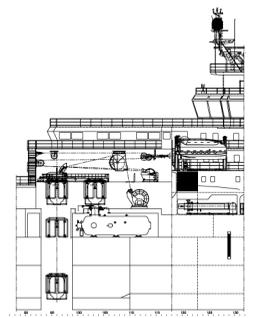
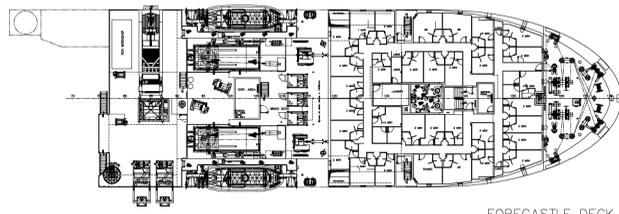
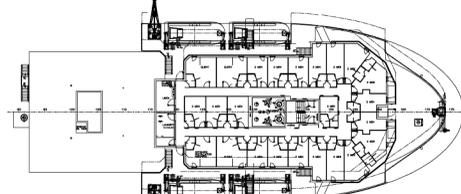
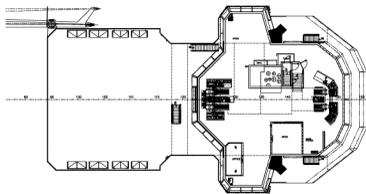
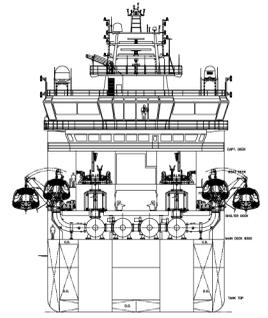
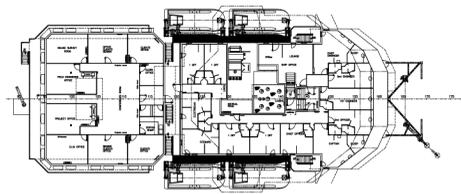
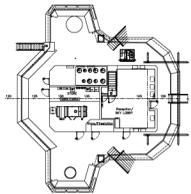
CCTV SYSTEM

Consists of 11 cameras, main station allocated in instrument room

GENERAL ARRANGEMENT



SIDE VIEW



TOP VIEW DECK LEVEL