DP1 Diving Support Vessel

HBC ACHIEVER

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Hyperbaric Consult A/S is a dynamic company with broad and diverse experience within the field of diving support for offshore construction, hyperbaric management, underwater and topside engineering and inspection.

HBC has participated in several different wind farm projects in Europe and is a very experienced company within all subsea aspects of wind farm development, IMR (Inspection, maintenance and repair) and NDT testing.
The ship

The DP1 Diving Support Vessel "HBC Achiever" is a 36 meter long, four point mooring vessel built in 2014 on the basis of our experience and according with specific requirements of HBC. She has been specifically set up and equipped for providing diving support for offshore construction, Inspection, Repair and Maintenance.

The work

“HBC Achiever” is capable of conducting offshore surveys, trenching and conducting ROV operations. “HBC Achiever” has wide experience in offshore construction and maintenance. The capability of “HBC Achiever’s” services can additionally be extended to include transporting fuel, oil, freshwater, general cargo and personnel.

The system

Modern diving systems including IMCA standard twin lock Decompression Chamber along with professional underwater hydraulic tools, ROV Support, long reach crane, subsea tracking, surveying and positioning systems, ensures efficient and safe operations during completion of the project.

“HBC Achiever” uses a Dynamic Positioning Class 1 system, four point mooring system, ECDIS Transas 4000 as part of integrated bridge system (ARPA Radar, AIS, ECDIS, DGPS, Navtex, Autopilot, Gyrocompass, Echosounder, Doppler log) and QINSy Survey System to provide an accurate, safe and stable working platform for subsea projects.

With the use of Sonardyne ransducer system connected with ship in DP mode – the ship is able to track a target (diver, ROV or other) with precision of less than one meter.
**GENERAL SPECIFICATIONS**

- **Classification**: Diving Support Vessel DP
- **Flag State Authority**: Danish International Ship Register
- **Port of Registry**: Gilleleje
- **Classification Authority**: RINA
- **IMO Number**: 9647978
- **Call Sign**: OWMH2

**MAIN PARTICULARS**

- **Overall Length**: 35.99 m
- **Beam**: 11.44 m
- **Summer Draught**: 3.092 m
- **Airdraft**: 18.7 m
- **Gross Tonnage**: 487 GT
- **Net Tonnage**: 146 NT

**ENGINE POWER & PROPULSION**

- **Engine**: 2x 331 kW
- **Generator**: 3x 180 kW /225 kVA
- **Bow Thruster**: 1x Schottel STT110FP 150kW
- **Rudderpropellers**: 2x Azimuth Thrusters: Schottel SRP 200, 280-410 kW

**SPEED**

- **Economical Speed**: 8.5 knots
- **Full Speed**: 10.5 knots

**CONSUMPTION**

- **In port**: 0.25 m³ / 24 hrs
- **Transit**: 4 m³ / 24 hrs
- **DP mode maneuvering**: 3 m³ / 24 hrs
- **Diving operations**: 0.5 m³ / 24 hrs

**TANK CAPACITIES (100%)**

- **Fuel Oil**: 70.0 m³
- **Fresh Water**: 48.0 m³

**CARGO DECK**

- **Main Deck Area**: 80 m²
- **Upper Deck Area**: 28 m²
- **Bridge Deck Area**: 38 m²

**DECK CRANE**

- **Type**: Hydraulic knuckle boom
- **Wire length**: 60 m
- **Main Crane max reach and load**: 3.3 mt @ 19.5 m
- **23.0 mt @ 4.2 m

**IMCA**

- **CMID**: M 149 & M 189 compliant
- **Diving Services and Systems**: compliant

**PERSONNEL**

- **Crew**: 10 pers
- **Project team**: 22 pers

**DIVE SYSTEM**

- Fully integrated 3 diver panel with multiple redundancies
- Twin lock IMCA standard Decompression Chamber
- Nitrox compressor for on-site production
- Bauer B-TROX
- Hot water system: 2x Aquila HB254
- Diving Launch and Recovery: 2x LARS diving basket
- Diver hydraulic and pneumatic tool station
- Full CSWIP inspection capabilities
- Coded welding and burning facilities

**SURVEY SYSTEM**

- QINSy ver. 8.0

**ROV**

- Sperry A/S Subfighter SUB-10K

**NAVIGATION AIDS**

- Fully Integrated Bridge System: Transas Navi-Sailor 4000 Dual ECDIS
- Multi-purpose display system: 2x 26” & 2x9” Monitors
- Radar ARPA: 2x Transas Navi-Radar 4000 X-band 3 cm
- AIS: Class-A, JRC JHS-83
- Autopilot: Navis AP4000
- Gyrocompass: GC-80 Simrad
- DGPS: JRC JLR-31
- Echosounder: JRC JFE-380-25 50/200kHz
- Navtex: JRC NCR-333
- Speed log: Doppler log system, JRC JUN-205

**DYNAMIC POSITIONING SYSTEMS**

- DP System: DP1 Navis NavDP 4000
- ROV following mode with HPR interface

**DP INTERFACES AND SENSORS**

- DGPS and GPS Satellite Compass: x2
- Gyrocompass: x1
- VRU/MRU: x2
- Thruster and propulsion interface: x4
- Wind sensor: x2
- Hydrostatic Pos.Ref. (HPR) <Sonardyne Ranger 2>: x1

**COMMUNICATION SYSTEMS**

- Marine Satellite Broadband: KNS Sea Master
- Satellite Internet (by V-SAT): SuperTrack A9
- VHF DSC: Sailor 6200
- VHF RT: x3 Sailor 6248
- MF/HF55B RT: Sailor 6310
- UHF: x4 Icom IC-2820E

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[Diagram of ship layout]