

## **DP1** Diving Support Vessel

# **HBC ACHIEVER**



## **Hyperbaric Consult A/S**

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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.













## • Diving support • ROV support • Inspection, Repair & Maintenance

- Surveying Repair & Maintenance Trenching
  - Cargo transport (fuel, oil or freshwater)

## 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.

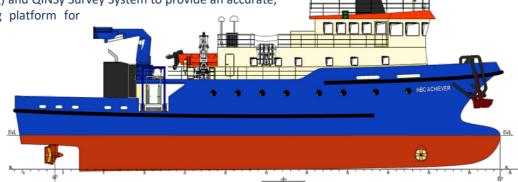
## The system

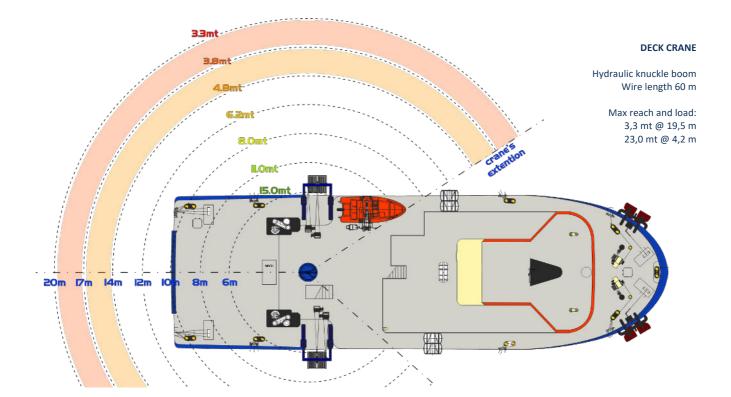
Modern diving systems including IMCA standard twin lock Decompression Chamber along with professional underwater hydraulic tools, ROV Support, long reach crane, subsea tracking, surveying and positioning systems, ensures efficient and safe operations during completion of the project.

"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 DP1
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

 Air draft
 12,9 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  $\mathrm{m}^3$  Fresh Water 48,0  $\mathrm{m}^3$ 

#### **CARGO DECK**

 $\begin{array}{ll} \text{Main Deck Area} & 80 \text{ m}^2 \\ \text{Upper Deck Area} & 28 \text{ m}^2 \\ \text{Bridge Deck Area} & 38 \text{ m}^2 \end{array}$ 

#### **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 9 pers
Project team 23 pers

#### **DIVE SYSTEM**

Fully integrated 3 diver panel with multiple redundancies Twin lock IMCA standard Decompression Chamber

Nitrox compressor for on-site production
Hot water system
Diving Launch and Recovery
Diver hydraulic and pneumatic tool station

Bauer B-TROX
2x Aquila HB254
2x LARS diving basket

Full CSWIP inspection capabilities
Coded welding and burning facilities

SURVEY SYSTEM QINSy ver. 8.0

ROV SAAB SeaEye Tiger 8106

#### **NAVIGATION AIDS**

Navi-Sailor 4000 Dual ECDIS Fully Integrated Bridge System: Multi-purpose display system Radar ARPA 2x Transas Navi-Radar 4000 X-band 3 cm Class-A, JRC JHS-183 Autopilot Navis AP4000 Gyrocompass GC-80 Simrad DGPS IRC II R-31 Echosounder JRC JFE-380-25 50/200kHz IRC NCR-333 Navtex Speed log Doppler log system, JRC JLN-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
Satellite Internet (by V-SAT)
VHF DSC
VHF RT
Sailor 6220
WF,HFSSB RT
Sailor 6310
UHF
X4 Icom IC-2820E

