Deep Explorer

Purpose-designed diving support and heavy construction vessel

Technip
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Specifications

Principal dimensions

Length overall	156.7 m
Length BP	144.6 m
Breadth	27 m
Depth to main deck	12 m
Draft (design)	7 m
Draft (scantling)	8.5 m

Deadweight 11,000 Te at 8.5 m

Cranage

Main lifting facilities

- Type box boom crane
- Main hoist 400 Te at 13 m (harbour lift, double fall)
- Main hoist 350 Te at 13 m (subsea lift, double fall)
- Main hoist 200 Te at 25 m (subsea lift, single fall)
- Auxiliary hoist 40 Te at 46 m (double fall)
- Active heave compensation, constant tension (AHC, CT)
- 2,000 m wire supplied (3,000 m drum capacity)

Additional lifting facilities

- 58 Te knuckleboom crane
  - 11 m (harbour lift)
  - 14 m (subsea lift)
- 1,000 m wire
- AHC, CT
- 2 x crane locations

- 2 x 10 Te at 15 m subsea knuckleboom diving cranes (500 m wire)
- 1 x 3 Te at 20 m - knuckleboom provision crane

Deck space

- 1,680 m² at 15 Te/m²
- Deckload 6,300 Te with CoG 1 m above the deck

Capacities

Fuel oil	2,500 m³
Fresh water	1,500 m³
Ballast water	8,000 m³

Working moonpool

- 7.2 m x 7.2 m
- Strengthened for VLS 7*
- Flared bottom
- Top & bottom removable plugs

Dive moonpools

- 2 x 3.9 m x 3.9 m

DP system

DP Class 3
Kongsberg K-Pos dual redundant main system with single K-Pos back-up system

Reference systems

- 3 x MRU
- 3 x Gyros
- 4 x Wind sensors
- 1 x Cyscan (laser type reference system)
- 3 x DGPS
- 2 x Seapath
- 2 x HPR + 1 additional spare trunk with valve
- 2 x Tautwire systems

Environmental Regulatory Number

Vessel to comply with Statoil TR2351

Power plant

- 4 x 3.3 MW Wartsila 6L32
- 2 x 4.4 MW Wartsila 8L32
- Total generated power 22 MW
- 1 x 890 kW emergency dive generator
- 1 x 368 kW emergency vessel generator

Propulsion

Forward

- 2 x 2.4 MW tunnel thrusters - controllable pitch propeller (CPP)
- 2 x 2.2 MW retractable azimuth thrusters - fixed pitch propeller

Aft

- 2 x 3.25 MW Rolls Royce (Azipull) thrusters - CPP
- 1 x 3.6 MW Rolls Royce (Azipull) thruster - CPP

FW making capacity

2 x 10 Te/day evaporator type
2 x 25 Te/day reverse osmosis type

Maximum speed

Service speed:
14 knots @ 7 m draft
Maximum speed: approx.
16 knots @ 6 m draft

Helideck

Sikorsky S-92
15 TE SWL capacity
26.1 m diameter

Accommodation

150 persons approx. in 109 cabins

Lifesaving appliances

- 4 x fully enclosed lifeboats, 100% capacity per side
  2 x 69 persons at 95 kg
  2 x 88 persons at 95 kg
- 1 x Fast Rescue Craft
- 2 x 24 man hyperbaric lifeboats

Dive system

- Depth rating 350 msw
- No. in saturation 24
- No. of bells 2
- Gas storage 36,000 m³
- Reclaim system fitted to bell
- Gas recovery for chambers
- Moonpool aeration system
- Side Mate System
- NORSOK compliant
- Infrastructure for plug and play air dive spread

ROV

- 2 x 3,000 m work-class ROVs (2,000 m umbilical)
- Infrastructure for plug and play Observation Class ROV

Flag

Bahamas

Classification

DNV 1A1, E0, DYNPOS-AUTRO, DK (+), CRANE, HELDK-SH, ICE C, CLEAN DESIGN with NAUT-AW, RECYCLABLE, Comf-V(3) C(3), SPS, BIS, WINTERIZED BASIC, BWM-T

Saturation Diving System classified by Lloyds Register

Year built / Builder

2016 / VARD (Romania / Norway)
OSCV 06 Design

*VLS 7: a Technip proprietary flexible and umbilical Vertical Lay System, with a 270 Te tension holding capacity.

In April 2014, Technip confirmed its investment in a newbuild Diving Support Vessel, to be built by Vard. This newbuild DP3 class diving support vessel is purpose-designed for the demanding North Sea Canada market and will be known as the "Deep Explorer." She will be capable of working throughout the year in extreme weather conditions. At delivery, the Deep Explorer will be the most advanced DSV in the world, thanks to its state-of-the-art dive control system, which supports the 24-man diving chamber complex.

With a large deck area, working moonpool, offshore cranes and work-class ROVs, the Deep Explorer is also capable of a wide variety of diverless construction activities. The vessel is due for delivery in 2016 and further demonstrates Technip's long-term commitment to the subsea industry.

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