

**VESSELS** Pipelay / Heavy Lift

Our Values















# Vessel Info

Full specification overleaf

Seven Borealis is a pipelay and heavy lift vessel capable of operating in the world's harshest environments.

- Length 182m x breadth 46m
- 600t tension S-lay up to 46-inch pipe diameter
- 937t top tension J-lay system up to 24-inch pipe diameter
- 2,800t onboard pipe storage
- Mast crane: capacity main hoist 5,000t; 1,200t heave compensated aux hoist
- Accommodation for 399 persons
- 2x work-class ROVs
- SPS code compliant
- MODU certificate (for POB 260)

### Fast Facts

- · J-Lay tower with gimballing function extending weather capability
- Proven track record in pipelay, subsea and surface construction, including the renewables sector
- Touch down monitoring capability by ROV at radius of 1,500m from the vessel
- Heave compensated auxiliary hoist with capacity of 1,200t, for use on surface or subsea
- S-lay system configurable for conventional, sliding and swaged Pipe-in-Pipe, with or without piggyback.

## subsea 7

#### General Information

Type DNVGL Class Notation

Additional Compliance Call Sign Flag Built

Pipelay / Heavy Lift +1A1 CRANE VESSEL BIS CLEAN(DESIGN) DK(+) DYNPOS(AUTRO) E0 HELDK(S. H) NAUT(AW) OPPF SPS and MODU code compliant C6YG8 Bahamas 2012

#### Principal Dimensions

Length Overall (m) Breadth (m) Depth Main Deck (m) Operating Draft (m)

182.2m 46.2m 16.1m 8.5m to 11.35m

#### Main Deck

Clear Deck Area (m2) Deck Strength (t/m²) Pipe Deck Storage Capacity 730m<sup>2</sup> 10t/m<sup>2</sup> 2,800t

Bow

### Tank Capacities (100%)

Marine Gas Oil (m3) Lubricating Oil (m<sup>3</sup>) Fresh Water (m3) Ballast Water (m3) Technical Water (m³) 2,980m<sup>3</sup> 92m<sup>3</sup> 2.620m<sup>3</sup> 41.076m<sup>3</sup> 760m<sup>3</sup>

#### Power and Propulsion

Main Engines/Generators Type / Power (kW)

Emergency/Harbour Generator Type / Power (kW) Thrusters for Propulsion and DP / Location Type / Power (kW)

Thrusters for DP Number

Location

Type / Power (kW) / Location Location Number Type / Power (kW) / Location Rolls-Royce B32:40 V12A 720 rpm diesel engines / 5.760kW each

MTU. V12 4000 Series / 1.600kW

2x azimuth thrusters / Stern Rolls-Royce UUC 455 FP, underwater demountable / 5.500kW each

4x azimuth thrusters, vertically retractable Rolls-Royce UL 305 FP / 3,200kW 3 at bow, 1 at stern 1x tunnel thruster Rolls-Royce TT 3,000 CP / 2,500kW

#### Vessel Speeds and Fuel Consumption

Maximum Speed **Economic Speed Economic Speed Fuel** Consumption

10.5 knots 8.0 knots

75.5m3/day

#### **DP Systems**

DP Classification Reference Systems K-POS DP Class III 3x Gyros, 3x MRU, 4x wind sensors. 4x DGPS, 2x HiPAP, 1x Radius, 1x Taut Wire + interfaces for extra Taut Wire, 1x Fanbeam, 2x Seapath 320 1x SpotTrack

#### Pipelavina System

Rigid S-lay:

Max Tension (t) Tensioners (No. and type)

Pipe Range (inches) Storage Capacity of Pipe (t) Work Stations (No.) Stinger (m)

Operating Water Depth (m) A&R Capacity (t) S-lay Comments

Rigid J-lay: Max Tension (t) Pipe Range (inches) Work Stations (No.)

Joint Type Operating Water Depth (m) A&R Capacity (t)

PLET Handling capacity J-lav Comments

Outriggers

**Double Joint** 

600t dynamic

3x Huisman horizontal two track tensioners

Variable speed electric drive motors 4.5 - 46 inches 2.800t Portside 11 single or 6 double joint stations

3 section stinger Stinger length 92.5m, radius 70 to 300m 20m - 3.000m

600t traction and 200t CT drum winches Steep S-lay system, up to 90 deg

departure

937t dynamic 4-24 inch WS1 for welding/NDT, WS2 for NDT/ coating

Double joint 3,000m

600t dynamic outside J-lay tower 360t dynamic inside J-lay tower 100t (within J-lay tower) Gimbal max angle 15°. Tower can handle pipe catenary using either friction clamps or collar clamps Portside provision for 1,000t hangoff Starboard side provision for 1,225t

hangoff

Provision for double joint fabrication onboard, dedicated double joint module

or S-Lay mainline

#### Helideck

Type

Aluminium - Max D 22.2m, Max T.O.W. 12.8t. NMD compliant

5,000t (stability permitting)

1,200t at 70m radius, 4 falls

600t at 103m radius, 2 falls

Main deck centreline aft

**Huisman Equipment BV** 

4,000t at 40m radius

1.500t at 78m radius

6,000m - single fall

Auxiliary hoist only

#### Cranes

Main Crane Capacity (mt) Location

Manufacturer Dual Main Hoist, Revolving

**Auxiliary Hoist** (Subsea Hook)

Operating Water Depth (m) Active Heave Compensation Whip Line

Main Crane Tugger Winches

**Main Crane Comments** 

**Auxiliary Cranes Capacity and Location**  Single fall: 55t at all radii Double fall: 110t at all radii 4x 45t pull. Constant tension up to 22t each Two main blocks/hooks to allow jacket upendina

Three point lifts can be achieved using the two main blocks and the auxiliary

40t Dreggen knuckle boom on

starboard side

40t Dreggen knuckle boom on

port side Aft

36t Huisman PMOC on port side Fwd

#### **ROV System**

ROVs (No. and type)

Operating Depth Rating (m)

2x work-class ROVs, ACV type by Schilling 3.000m with 1.500m long tether

#### Accommodation

Persons Berths (No.)

Cabins (No.)

18x single berth, 17x double berth, 87x 4 man berths

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