

VESSELS

Pipelay / Heavy Lift

Our Value



Safety



Integrity



ustainabilit



erformano



Collaboratio



Innovatio



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.



Number

Location

Type / Power (kW) / Location

subsea 7

ocven boreans					
General Information		DP Systems		Cranes	
Type DNVGL Class Notation Additional Compliance Call Sign Flag	+1A1 CRANE VESSEL BIS CLEAN(DESIGN) DK(+) DYNPOS(AUTRO) E0 HELDK(S, H) NAUT(AW) OPPF SPS and MODU code compliant C6YG8 Bahamas	DP Classification Reference Systems Pipelaying System	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	Main Crane Capacity (mt) Location Manufacturer Dual Main Hoist, Revolving Auxiliary Hoist (Subsea Hook)	5,000t (stability permitting) Main deck centreline aft Huisman Equipment BV 4,000t at 40m radius 1,500t at 78m radius 1,200t at 70m radius, 4 falls 600t at 103m radius, 2 falls
Built Principal Dimensions	2012	Rigid S-lay: Max Tension (t)	600t dynamic	Operating Water Depth (m) Active Heave Compensation Whip Line	6,000m - single fall Auxiliary hoist only Single fall: 55t at all radii
Length Overall (m)	182.2m	Tensioners (No. and type)	3x Huisman horizontal two track tensioners	Main Crane Tugger Winches	Double fall: 110t at all radii 4x 45t pull. Constant tension up to
Breadth (m) Depth Main Deck (m) Operating Draft (m) Transit Speed (knots)	46.2m 16.1m 8.5m to 11.35m Approximately 11 knots	Pipe Range (inches) Storage Capacity of Pipe (t) Work Stations (No.)	Variable speed electric drive motors 4.5 - 46 inches with coating 2,800t Portside 11 single or 6 double joint stations	Main Crane Comments	22t each Two main blocks/hooks to allow jacket upending Three point lifts can be achieved using
Main Deck		Stinger (m)	3 section stinger Stinger length 92.5m, radius 70 to 300m		the two main blocks and the auxiliary block
Clear Deck Area (m²) Deck Strength (t/m²) Pipe Deck Storage Capacity	730m ² 10t/m ² 2,800t	Operating Water Depth (m) A&R Capacity (t) S-lay Comments	20m - 3,000m 600t traction and 200t CT drum winches Steep S-lay system, up to 90 deg departure	Auxiliary Cranes Capacity and Location	40t Dreggen knuckle boom on starboard side 40t Dreggen knuckle boom on
Tank Capacities (100%)		Rigid J-lay: Max Tension (t)	937t dynamic		port side Aft
Fuel Oil HFO (m³) Marine Gas Oil (m³) Lubricating Oil (m³)	3,370m³ 2,980m³ 92m³	Pipe Range (inches)	4-inch minimum, 24-inch maximum with coating (Friction Clamp), 36-inch with coating (Collar), 72-inch clearance for	ROV System	36t Huisman PMOC on port side Fwd
Fresh Water (m³) Ballast Water (m³)	2,620m³ 41,076m³	Work Stations (No.)	passing through inline tees, etc 2x work stations. WS1 for welding/NDT,	ROVs (No. and type)	2x work-class ROVs, ACV type by Schilling
Technical Water (m³)	760m³	Joint Type	WS2 for NDT/coating Double joint nominal length 24.6m,	Operating Depth Rating (m)	3,000m with 1,500m long tether
Power and Propulsion		Operating Water Depth (m)	range 19.0m to 26.0m, 30t max weight 3,000m	Accommodation	
Main Engines/Generators Type / Power (kW)	6 Rolls-Royce B32:40 V12A 720 rpm	A&R Capacity (t)	600t dynamic outside J-lay tower 360t dynamic inside J-lay tower	Persons Berths (No.)	399 18x single berth, 17x double berth, 87x 4 man berths
Emergency/Harbour Generator	diesel engines / 5,760kW each 1	PLET Handling capacity	100t (within J-lay tower), 200t (using PLET Handling Frame)	Cabins (No.)	127
Type / Power (kW) Thrusters for Propulsion	MTU, V12 4000 Series / 1,600kW	J-lay Comments	Gimbal max angle 15°. Tower can handle pipe catenary using either		
and DP / Location Type / Power (kW)	2x azimuth thrusters / Stern Rolls-Royce UUC 455 FP, underwater demountable / 5,500kW each	Outriggers	friction clamps or collar clamps Portside provision for 1,000t hangoff Starboard side provision for 1,225t		client.enquiry@subsea7.com
Thrusters for DP Number	4x azimuth thrusters, vertically	Double Joint Module:	hangoff Provision to fabricate double joints		
Type / Power (kW) / Location	retractable Rolls-Royce UL 305 FP / 3,200kW		onboard		WWW.
Location	3 at bow, 1 at stern	Helideck			www.subsea7.com













Our Differentiators



Aluminium - Max D 22.2m, Max T.O.W.

12.8t. NMD compliant









1x tunnel thruster

Bow

Rolls-Royce TT 3,000 CP / 2,500kW

Type