

# VOLANTIS

## VESSEL SPECIFICATION SHEET



### SUBSEA CONSTRUCTION, INSTALLATION & TRENCHING VESSEL

### KEY VESSEL FEATURES

The Volantis is a dynamically positioned multi-role subsea construction vessel. Designed for operation in severe weather conditions, the vessel demonstrates high station keeping capability whilst remaining environmentally efficient. The vessel incorporates a 150 te Active Heave Compensated subsea crane and is permanently mobilised with an Installer Work Class ROV and Seaeye Panther XT III A Work Class ROV, which can be launched and recovered in high Sea States.

The Volantis has an extensive global track record for performing comprehensive construction, installation and trenching projects on a highly productive basis. The spread also includes a 600 te or 2000 te rated carousel to facilitate the installation and/or simultaneous burial of flexible products.

In addition to the world's most powerful jet trencher, the 2.1 MW UT-1, which is permanently mobilised on board the vessel, the following equipment can also be fitted as required.

- HIGH SEA STATE CAPABILITY
- EFFICIENT AND COST EFFECTIVE TRENCHING AND CONSTRUCTION SUPPORT
- HIGH STATION MANOEUVRABILITY MINIMISES ENVIRONMENTAL IMPACT
- 2X IN BUILT WORK CLASS ROVS
- PERMANENTLY MOBILISED WITH:
  - Additional Work Class ROV/Observation ROVs
  - 75 t Capacity Stern A Frame
  - A range of cable ploughs and mechanical trenchers

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The Volantis is not limited to these parameters and can be modified by DeepOcean to complete workscopes in excess of its current configuration.

The vessel is equipped with:

- The UT-1 Ultra Trencher
- 2000 te carousel capacity
- 150 te Active Heave Compensated Subsea Crane - 2000 m rated
- Installer Workclass ROV
- Seaeye Panther XT III A Workclass ROV

In addition, the following equipment can be fitted as required:

- Additional Work Class ROV/Observation ROV
- 75 te Capacity Stern A Frame
- A range of DeepOcean's Ploughs and Trenchers

#### GENERAL

BUILT	2007
REGISTRY	Panama
TYPE	Offshore Construction Vessel
LENGTH	106,6 m
BEAM	22 m
DRAFT	7,3 m (max)
TOTAL POB	81 persons
DEAD WEIGHT	5200 te approx.
BOLLARD PULL	110 te
SUBSEA CRANE	150 te Active Heave Compensated Crane
DECK SPACE	1200 m <sup>2</sup> incl. Lay Spread and Trencher
HELI DECK	12,5 t

#### DYNAMIC POSITIONING

DP CLASS	DnV AUTR - DP Class 2
DP SYSTEM	Kongsberg
DP REFERENCE	DP31 system, Fan Beam, Sea Path, HiPAP etc.

#### COMMUNICATIONS

SATELLITE COMMUNICATIONS	VSat system 24 hour high speed internet access Fax, Voice, Data and GMDSS
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#### MAIN REEL ASSEMBLY / FLEETING TOWER / COMPENSATOR PRODUCT LOAD CAPACITY

PRODUCT LOAD CAPACITY	2000 te (upgradeable)
ESTIMATED CAROUSEL WEIGHT	350 te
OVERALL STORAGE DIAMETER	15 m standard, extendible to 19 m
CORE DIAMETER	5 m Tapered, extendible to suit project
FLANGE HEIGHT	6 m Flange
PRODUCT	Up to 400 mm diameter
MAXIMUM SPEED	1200 m/hr
ACCELERATION FROM 0 TO 1000 M/HR	30 secs
CONTROLLED STOP TIME	30 secs
EMERGENCY STOP TIME	7 secs
TRANSMISSION	TOOTH SPROCKET AND Water Jet Cut Gears
NO. OF DRIVE ASSEMBLIES	Three - 50% Redundancy
POWER SOURCE	Electric/Hydraulic
TEMPERATURE RANGE	- 10°C to + 45°C
IN BOARD TENSION	+ 5 te (7,5 te max)

#### 20 TE TENSIONER

NUMBER OF TRACKS	3
TRACK CONTACT LENGTH	2500 mm
MAX. LINE TENSION CAPACITY	20 te
MAX. GRIP FORCE AVAILABLE	270 te
MIN. GRIP FORCE AVAILABLE	50 te
COEFFICIENT OF FRICTION (FLEXIBLE PIPE)	0.1
LAY SPEED/MAX TRACK SPEED	1200 m/hr at 20 te
RECOVERY SPEED	500 m/hr at 20 te
DRIVE TYPE	Electric / Hydraulic

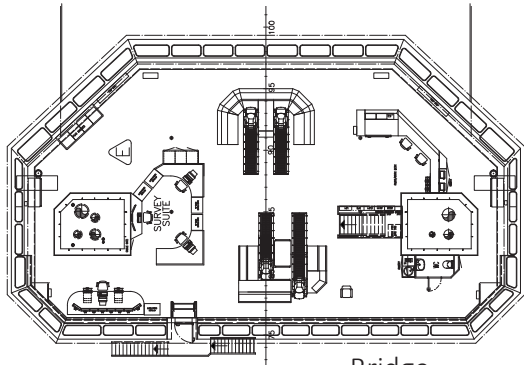
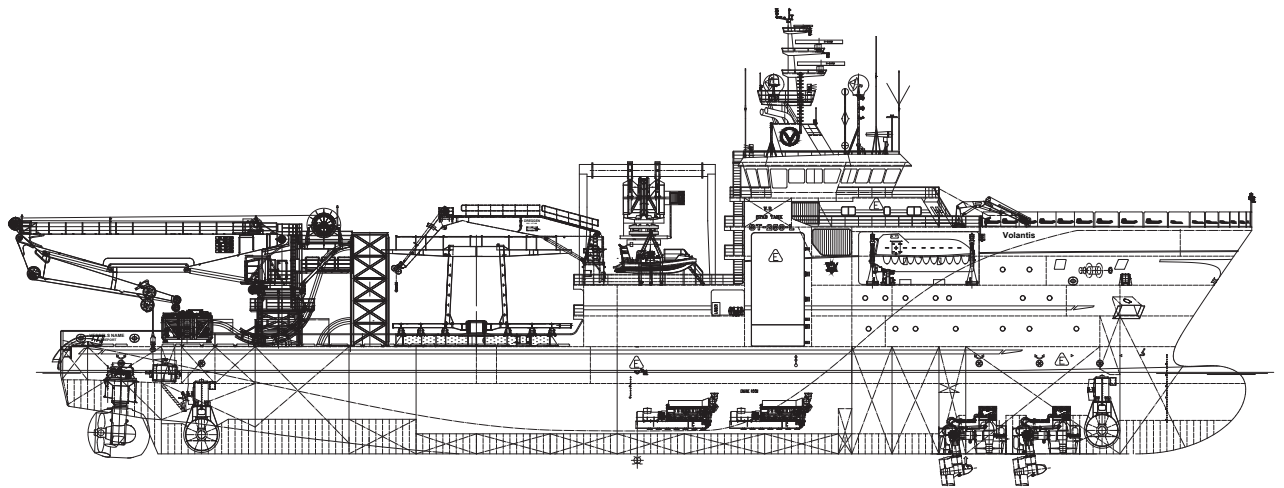
#### 2000 TE CAROUSEL

The carousel has been designed to incorporate a deck mounting system that allows efficient mobilisation and demobilisation without the need for welding the carousel structure to the deck.

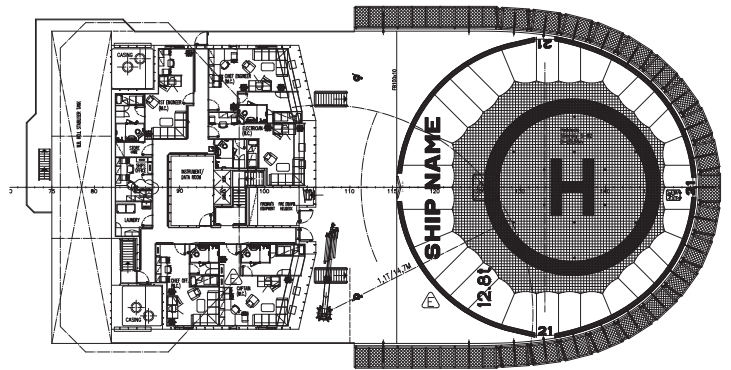
#### FUEL CONSUMPTION

MAX SPEED	42 M3/24HRS
SERVICE SPEED	30 M3/24HRS
DP MODE	20 M3/24HRS
HARBOUR MODE	8 M3/24HRS

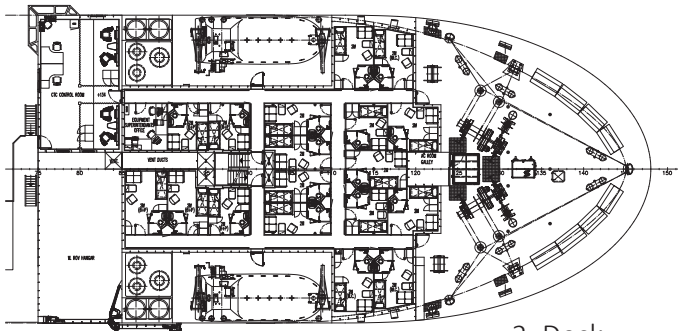
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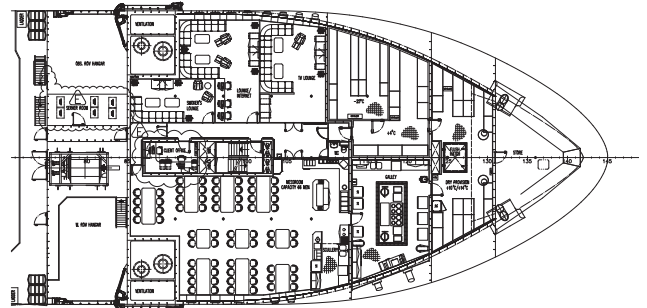
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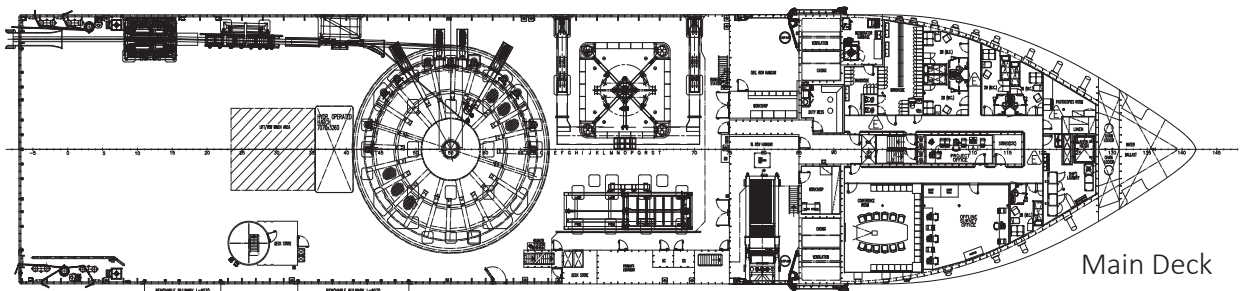
4. Deck



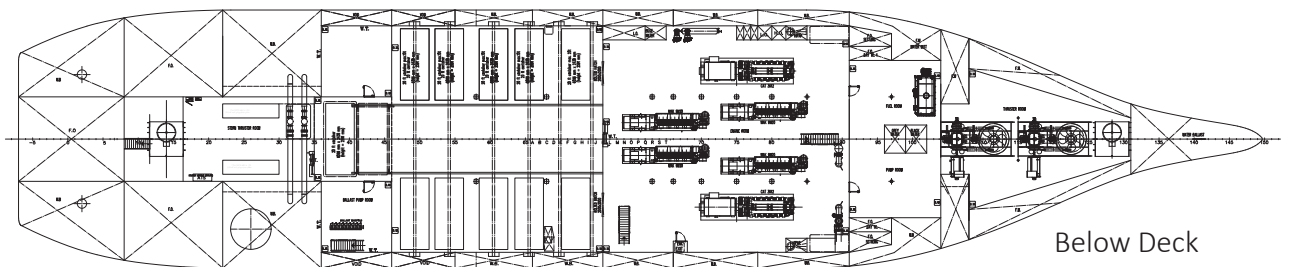
2. Deck



1. Deck



Main Deck



Below Deck



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