Atlantic Marine & Aviation

ATLANTIC CARRIER

FULL SPECIFICATIONS

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Atlantic Marine
& Aviation

Multi Role Offshore Ship

- Research
- Safety
- Rescue
- Cargo
- Survey
- Supply
- Standby
- Guard Ship
- Dive Support
- Accommodation

Atlantic Carrier

Originally built as special Pipe Carrier and Offshore Support Vessel. The vessel is DP2 equipped with two variable pitch propellers, two lateral stern thrusters, two lateral bow thrusters and two free-hanging Spade rudders. Main propulsive power is equal to 2 x 2000BHP. Lateral thrust is 1 x 800 HP and 3 x 500 HP.

Principle details:

Ship model / type:	**MPSV** Ulstein UT 705/Pipe Carrier/Supply and Multi Purpose Offshore & construction DSV / Support Vessel
Cable lay and repair	Cable lay modular system available (optional)
Built:	1974/converted 2001
Classification:	Det Norske Veritas DNV*1A1 DPS(2) EO (NB chaging to RINA Class -DP2 - from June 2017)
Dynamic positioning:	Konsberg Simrad KPOS DP2 (DGPS/Hipap/fanbeam*) *option
Crane	40 ton (36 ton SWL) subsea / over stern / via Moon Pool
Moon Pool	3.2m x 3.2m

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Dimensions:	LOA	82.35m
	Length BP	76.20m
	Breadth Moulded	18.00m
	Beam	18.3m
	Depth	7.10m
	Draught	3.6m mean / (4.5m max)
Deck area	51.65x14.95=772.16m2 (Steel/timber clad)	
Moon Pool (Closable)	3.20x3.20m	
Registered Tonnage:	2685 GRT 806 NRT 2400 DWT	
Crew - safe manning:	10 min /14 max	
Accommodation & other facilities:	55 Persons total (49 when in DP2 ops) 31 Cabins (Max 40 clients) TV/ cinema lounge (Sat TV to all cabins) Dining Mess / office Designated Hospital/Cabin	

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Supply:	Deck load	1500T
	DWT	2400T
	Point loading	5T/m2
	Fuel/MGO	1400m3 (depending on loading conditions)
	Portable water	900m3
	Ballast	1164m3
Stanchion height:	Above wooden deck	3.07m
	Above main deck	3.125m
DSV / Survey:	Moon Pool 3.2m x 3.2m (main deck to keel)	
	Hipap through hull	
	2 x external pole mount (Blue view/multi beam)	
	VSat Broadband internet (2MBS)	
Cargo Discharge Capacity:	Fuel Oil	150m/hour at 60m head
	Portable water	100m/hour at 60m head
Fuel Consumption*:	Max speed 12 knots	12T/day
	Economic speed 10 knots	10T/day
	DP Operations	6T/day*
	In port	1.2T/day

*subject to local and operational conditions

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Dynamic Positioning Control DP2

Kongsberg Simrad KPOS x 2 consoles

DNV certified DPS2

DP References:

Simrad HIPAP hydroacoustic system with remote control transducers (+2 Transponders (option))

3 x DGPS IALA (Land/Sat) DGPS + Simarad DPS GPS

Fan Beam (optional – not inlcuded)

Taut Wire (optional – not inlcuded)

3 x Gyro Compass

2 x VRM Pitch, roll

2 x wind referencing

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Propulsion control:

Port & Stb wings, main bridge, aft deck controls via remote Ulstein Joystick control, twin balanced spade rudders

KPOS DP2

Rolls Royce Pos Joystick control

Safety Equipment:

1 x Avon 5.4m rescue Rib - Launch with 1 x 1.5T Davit

1 x 60hp Mariner OB engines capable of 20 knots

GMDSS A3 radio station

3 life rafts 20 person each

3 liferafts 25 person each

1 SOLAS Rescue boat 6 persons

FURONO UNIVERSAL AIS FA-100

Safety Equipment Certificate for 55 persons

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Machinery:

Propulsion **2 x 2000 BHP 600 RPM MAK Type 6M453 AK driving 2 Ulstein Variable Pitch Propellers and via 2 shaft generators, 4 tunnel thrusters**

Generators:
2 x 900KW shaft generators
3 x 250KW GM
1 x Emergency Generator
220V/440V 60hz AC

Thrusters and Rudders: Two bow and two stern thrusters are driven by two shaft generators -
bow thruster no 1: 500HP
bow thruster no 2: 500HP
stem thruster no 3: 500HP
stem thruster no 4: 800HP

2 Spade rudders.

All thrusters are controlled from fwd and aft bridge control console, DP or independent joystick.

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Cranes & deck:

Moon Pool 3.2m x 3.2m

1 x Blohm and Voss 40 Ton Crane capable of 36 tons @ 28M

2 x electro hydraulic anchor winches

2 x 25 ton line pull tugger winches**.

(**not currently on board but available on request)

2 electro hydraulic stern capstans

2 Anchors 2500kg plus 9 shackles of 44mm chain on STB and 11 shackles of 44 mm chain on PS.

CCTV from bridge to aft deck areas with twin 40” screens

Navigation Equipment:

1 Radar Furuno (ARPA) model FR 2115

1 Radar Furuno model FR 1510DA

1 Autopilot Plath Liffo Marine System 0031

1 Rolls Royce P Joystick System v3

1 GPS Furuno GP 90?

1 GPS Furuno GP 32

1 Echo Sounder Furuno LS 4100

1 Gyro Compass Plath Liffo Marine Systems SR 180

1 Navtax receiver Furuno ?500

1 Facsimile Furuno 208 c Weather Fax

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Radio Communication Equipment:

2 Inmarsat C Satellite communication system Trimble Galaxy (GMDSS)
1 Inmarsat B Satellite communication system NERA SATURN B
1 SEA HF/ Radio Communication system
1 Positioning Data Link IALA VSAT

1 Furuno SSB Transceiver FS – 1562-25 (GMDSS)
1 Furuno VHF DSC Terminal/Receiver DSC-6A (GMDSS)
2 Furuno VHF Radiotelephone FM 8500 (GMDSS)
1 Uniden VHF Marine Radio MC-535
1 Icom VHF Marine Radio IC-M45
3 Portable VHF Marine Radio Navico SRH 150 Emergency (GMDSS)
2 Portable VHF Marine Radio Navico SRH 250
4 Portable UHF Radio Motorola GP340/PRO5150

1 x ESEA VSAT Terminal (1-4Meg download) with firewall, router and wifi to alldecks

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Electric Power Generation:

Diesel Engines	3 General Motors Detroit ALLISON 12V71 Diesel engines developing 370 HP 1800 RPM each
Alternators	2 x 1000KW Shaft Generators (thrust drives) One alternator no 3, type Siemens 1FB3/260 3 phase 450 v 50Hz – 400A 310KVA/250KW Two alternators no 4 and 5, type Electric Con Ltd BRF -400A 3 phase 450 v 60HZ – 610A 313 KVA/250KW
Electric Systems	440 v 3 Phase 3 Wire 60 HZ for Power Services 220 v Single Phase 60 HZ for lighting and small power 24 v for alarms, signaling circuits, nautical service. D.A starting
Harbour Generator	1-GM-OM LINE 71, 6 cylinders coupled to Stanford? Generator type MO 453B, 440 v, 183 A, 60 HZ, 140 VA?
Emergency Diesel Lister	Type ST3MA, 14.6 HP, 1800 RPM coupled to DAE Generator 3 x 230 V, 60HZ, 197 A, 8kVA

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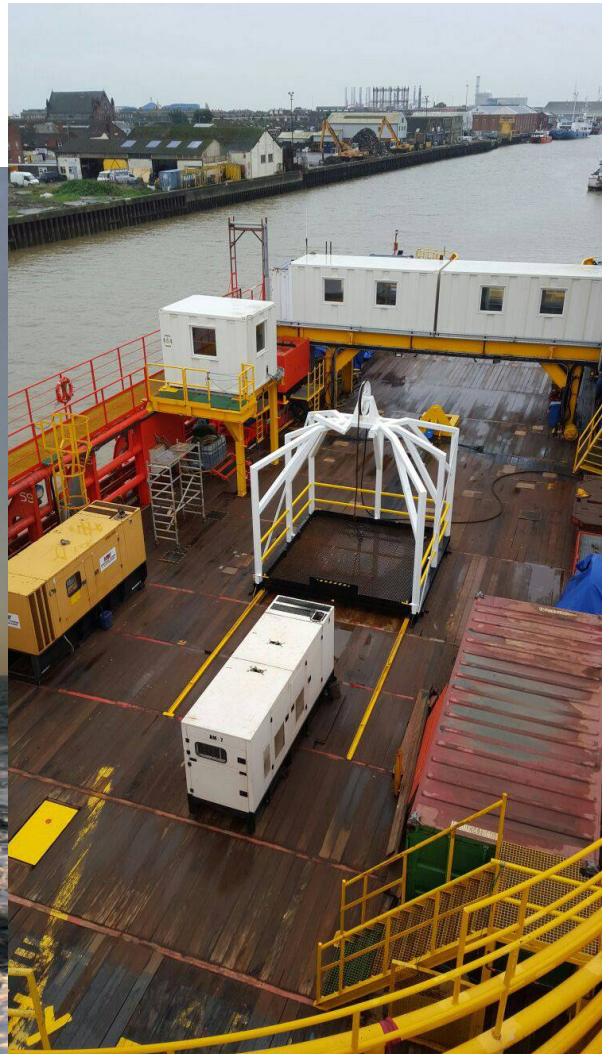
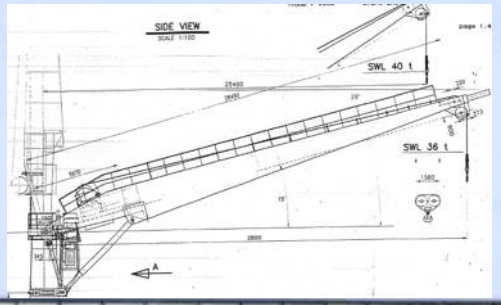
Deck & External



Lounge / Gym / Mess

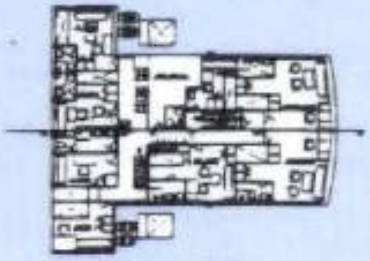
Bridge & Controls

KPOS DP2

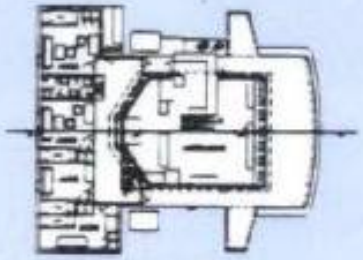


2 x 2000 B.H.P. Main Engines
1 x 500 H.P. Tunnel Thruster
1 x 800 H.P. Tunnel Thruster

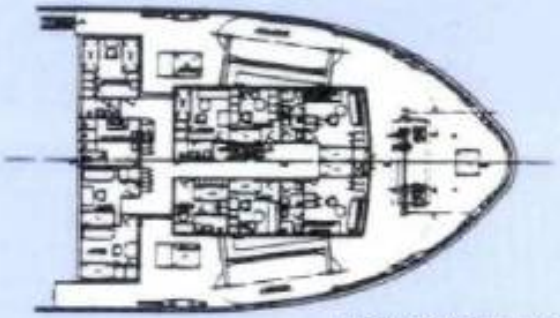
2 x 500 H.P.
Tunnel Thrusters



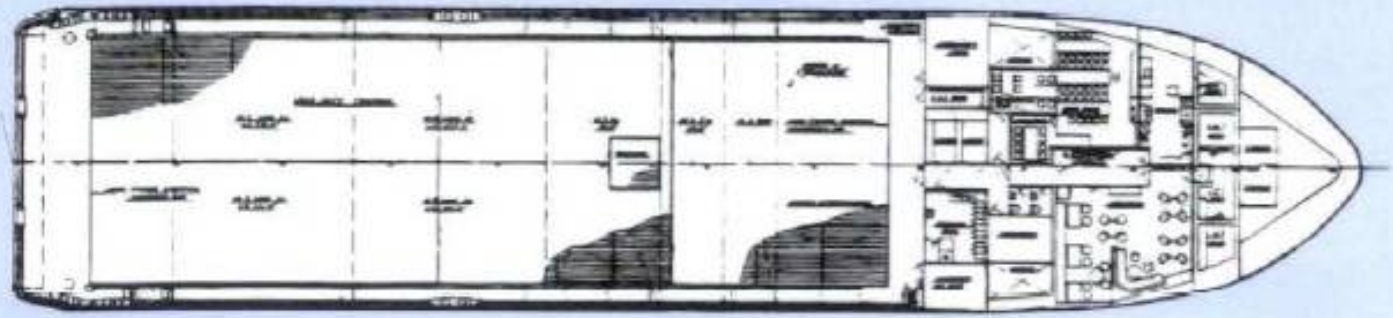
CAPTAINS DECK



BRIDGE DECK

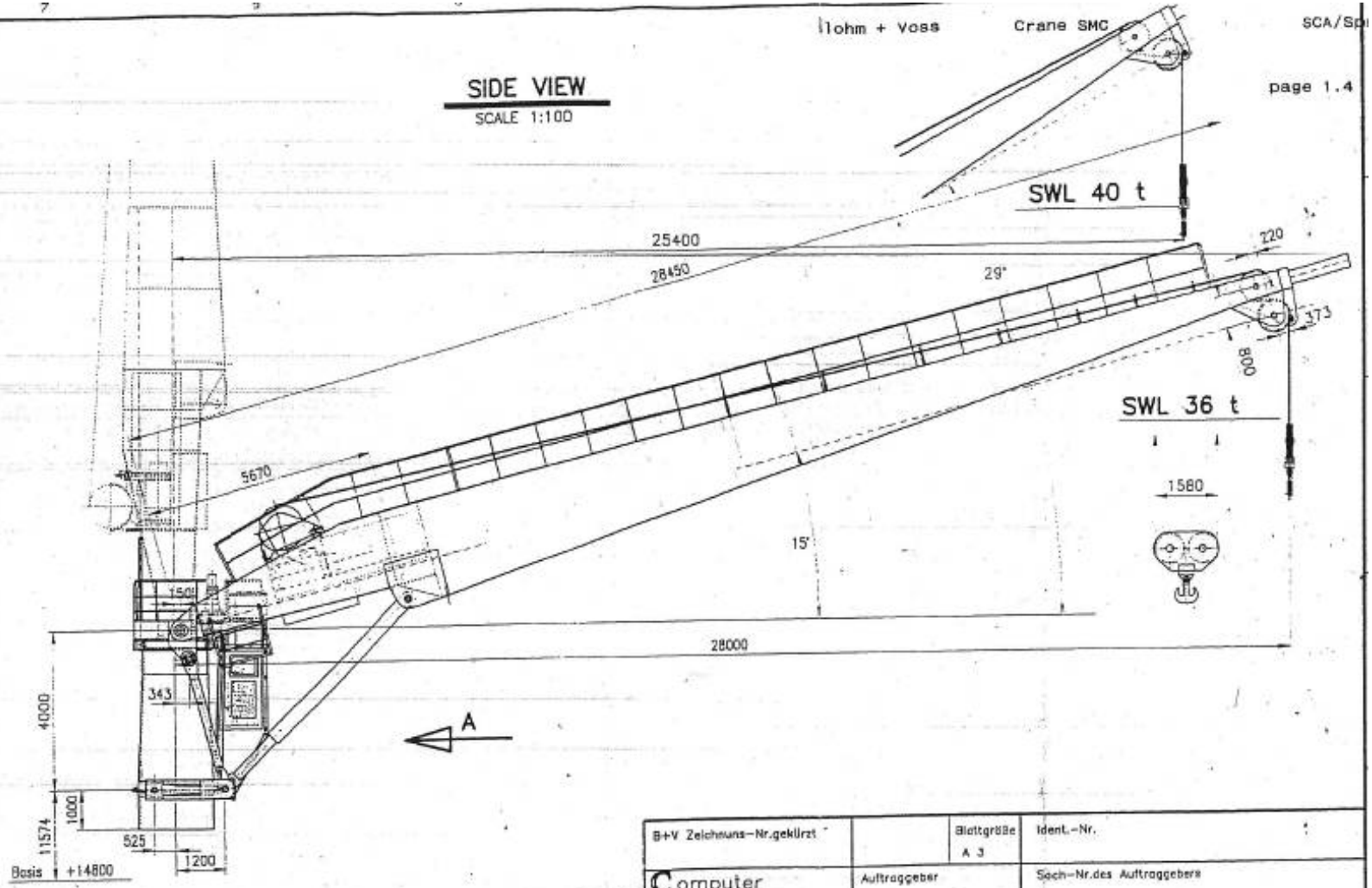


FORECASTLE DECK

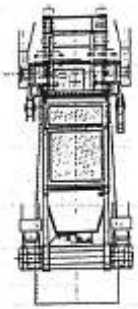


SHELTER DECK

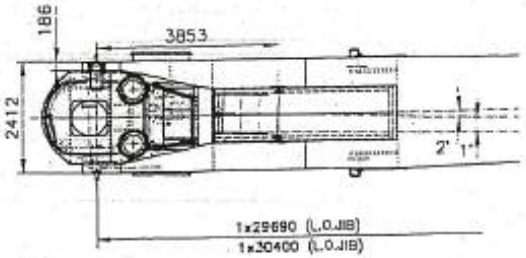
SIDE VIEW
SCALE 1:100



VIEW A



PLAN VIEW



Order No. 71·

B+V Zeichnungs-Nr.gekürzt		Blattgröße A 3	Ident.-Nr.
Computer Aided Drawing	Auftraggeber		Sach-Nr.des Auftraggebers
SMC3628C	Zul.Abw.	Oberfläche	Maßstab 1 : 100 / Gewicht
			Werkstoff,Halbzeug Rohteil-Nr. Modell oder Gesenk-Nr.
	Datum / Name		Benennung
	Bearb. 02.07.98 Winkler		SHIPS MAST CRANE TYP SMC 36X28\40X25,4
	Gepr.		
	Norm		
	Abt.: 9CT		
	Blohm+Voss AG 1162/63 Hamburg		Zeichnungs-Nr. 714.162-26900-K0700 / Blatt 1
Zust. Änderung Datum Name	Urspr.		Ers.f. / Ers.d.

KONGSBERG

DP Capability Plot

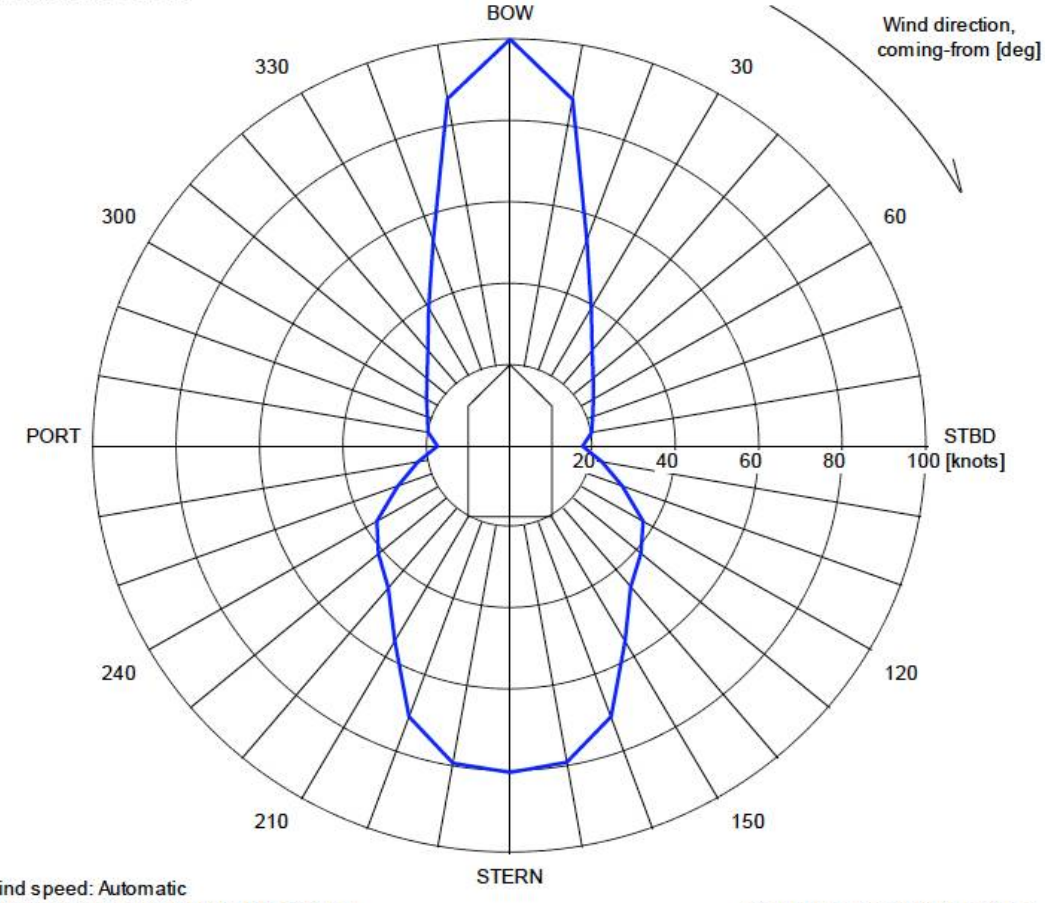
ATLANTIC CARRIER

Case number	:	1
Case description	:	Current 0.5 knots
Thrusters active	:	T1-T6
Rudders active	:	R1-R2

Input file reference	:	Foot4604.scp
Last modified	:	2012-09-05 13.11 (v. 2.8.0)
Length overall	:	82.3 m
Length between perpendiculars	:	76.2 m
Breadth	:	18.0 m
Draught	:	4.3 m
Displacement	:	4500.0 t (Cb = 0.74)
Longitudinal radius of inertia	:	19.0 m (= 0.25 * Lpp)
Pos. of origin ahead of Lpp/2 (Xo)	:	0.0 m
Wind load coefficients	:	Calculated (Blendermann)
Current load coefficients	:	Calculated (Strip-theory)
Wave-drift load coefficients	:	Database (Scaled by Breadth/Length)
Tidal current direction offset	:	0.0 deg
Wave direction offset	:	0.0 deg
Wave spectrum type	:	Pierson-Moskowitz
Wind spectrum type	:	NPD
Current - wave-drift interaction	:	OFF
Load dynamics allowance	:	1.0 * STD of thrust demand
Additional surge force	:	0.0 tf
Additional sway force	:	0.0 tf
Additional yawing moment	:	0.0 tf.m
Additional force direction	:	Fixed
Density of salt water	:	1026.0 kg/m³
Density of air	:	1.226 kg/m³ (15 °C)
Power limitations	:	OFF
Thrust loss calculation	:	ON

#	Thruster	X [m]	Y [m]	F+ [tf]	F- [tf]	Max [%]	Pe [kW]	Rudder
1	TUNNEL	32.5	0.0	5.5	-5.5	100	368	
2	TUNNEL	30.8	0.0	5.5	-5.5	100	368	
3	TUNNEL	-32.4	0.0	5.5	-5.5	100	368	
4	TUNNEL	-34.1	0.0	8.8	-8.8	100	588	
5	PROP_AS	-37.4	4.5	26.0	-18.2	100	1471	SPADE
6	PROP_AS	-37.4	-4.5	26.0	-18.2	100	1471	SPADE

VARIABLE WIND AND WAVES
Limiting 1 minute mean wind speed in knots
at 10 m above sea level



Wind speed: Automatic
Significant wave height: IMCA (North Sea)
Mean zero up-crossing period: IMCA (North Sea)

Rotating tidal current: 0.50 knots
Rotating wind induced current: 0.000*Uwi knots

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