

# ARBOL GRANDE

VESSEL SPECIFICATION SHEET



## CONSTRUCTION AND SUBSEA SUPPORT VESSEL

Arbol Grande is a general construction and subsea DP/II vessel, with a built-in accommodation for 199 persons and a 60-ton constant tension crane (Liebherr), in addition to a secondary 60-ton telescopic crane (TTS). She has a superpuma helideck, 960m<sup>2</sup> of free deck space. The vessel has been used as an accommodation and topside maintenance support vessel for several IMR contracts involving ROV survey and diving activities.

## KEY VESSEL FEATURES

- GENERAL CONSTRUCTION & SUBSEA SUPPORT VESSEL
- SATURATION DIVING SUPPORT VESSEL
- ACCOMODATION VESSEL (199 PERS.)
- CLIENT OFFICE
- MEETING ROOMS
- DAY ROOMS
- HELICOPTER DECK SUPER PUMA
- 960 M<sup>2</sup> DECK AREA
- CLASSIFICATION: DNV + 1A1 HELDK - SH DTNPOS AUTR DK + EO

## GENERAL

SHIP NAME	Arbol Grande
DESIGN	IMR / Research Vessel
OWNER	DeepOcean Shipping III AS
OPERATOR	DeepOcean AS
CHARTERER	Diavaz
BUILT	2003
BUILDER	Metalships & Docks, S.A.
CLASSIFICATION	+IA1, SF, HELDK-SH, DYNPOS-AUTR, DK(+), EO
DNV ID NO	23411
ERN	99.0, 99.0, 98.5

## MAIN CHARACTERISTICS

LENGTH O.A	94,28 m
LENGTH B.P	79,90 m
BREADTH MLD	20,00 m
DRAFT, MAX	7,0 m
AIR DRAFT	41,5 m
DEPTH MLD TO MAIN DECK	9,5 m
DRAFT, MIN	4,35 m
DRAFT DESIGN	7,0 m
SERVICE SPEED	Approx. 12 knots
MAX SPEED	Approx. 13 knots

## FUEL CONSUMPTIONS

MAX SPEED	Approx. 30 m <sup>3</sup> /24 hrs
SERVICE SPEED	Approx. 21 m <sup>3</sup> /24 hrs
DP MODE	Approx. 14 m <sup>3</sup> /24 hrs
HARBOUR MODE	Approx. 2 m <sup>3</sup> /24 hrs

## MAIN EQUIPMENT

MAIN ENGINES	2 x Wartsila 8L26 A, 2480 kW each 2 x Wartsila 6L26 A, 1860 kW each
NUMBER & POWER	4 engines, 8680 kW
MAIN PROPELLERS	2 x Aquamaster US-255, 2400 kW each
DRIVE TYPE SHAFT/ DIESEL-ELECTRIC	Diesel - electric
AUXILIARIES	N/A
EMERGENCY GENERATOR	1 x Stamford MHC 534C1
EMERGENCY GENERATOR CAP	450 Kva
BOW THRUSTERS	2 x Kamewa Ulstein
TYPE	250-TVSS, 883 kW
AZIMUT	1 x Ulstein Aquamaster
TYPE	TCNS-83/56-220, 1200 kW
STERN THRUSTER	Ulstein
TYPE	Aquamaster US-255

## CARGO CAPABILITIES (DECK)

MAIN DECK	940 m <sup>2</sup>
DECK SPACE (WOODEN)	940 m <sup>2</sup>
CARGO DECK STRENGTH	5 Te/m <sup>2</sup>
DECK CARGO CAP. (TONNES)	Approx. 1600 Te

## DECK CRANES

OFFSHORE CRANE 1	Liebherr - BOS 42000- 100 Litronic crane Max Load singel fall 60 Te @ 29 m Max outreach 50 m
OFFSHORE CRANE 2	Norlift - Hydraulic Offshore GPCTO 2000 6041 Crane Max load double fall 60 Te @ 14 m Max single fall 30 Te @ 20 m, length 300 m Aux wire, 5 Te @ 41 m
SERVICE CRANE	Norlift 2 Te / 16 m. Hydralift KMCV 1301-2-16
PROVISION CRANE	Norlift 2 Te / 8 m

## DECK EQUIPMENT

MOONPOOL	7,2 x 7,2 m
CAPSTANS	1 each side aft main deck. Ten Horn EHCV-50 kn
TUGGER WINCH	N/A
HELIDECK	D-value 19,5 m, suitable for Super Puma

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## TANK CAPACITIES

FUEL OIL	1342 m <sup>3</sup>
WATER BALLAST / DRILL WATER	2460 m <sup>3</sup>
FRESH WATER	411 m <sup>3</sup>
LIQUID MUD	N/A
BASE OIL	33 m <sup>3</sup>
BRINE	N/A
OIL RECOVERY	35,72 m <sup>3</sup>
SLOP 1 TANK	N/A

## NAVIGATIONAL EQUIPMENT

RADAR 1	ARPA X, JRC JMA-9822-6XA
RADAR 2	ARPA S, FURUNO FAR2137 SSB
AUTO PILOT	Robertson MK9 mark 3
GPS	Leica MX420
LOG	Doppler Speed Log, Sal
AIS	Leica MX-420
ECHOSOUNDER	Skipper GDS 101
GYRO	3 x C. Plath Navigat X MK1, Mod 10
ST.COMPASS	Magnetskap Type: BN 35PL
RADIO INSTALLATION	GMDSS AREA A1, A2, A3, SAILOR HF/MF P4000 / 500W S
FLEET BROADBAND	Sailor 500
INMARSAT B	Nera SATURN BM MK2
INMARSAT C	2 x Sailor H-2095-C S
VHF DSC	1 x Sailor - 6222

## VARIOUS SYSTEMS/EQUIPMENT

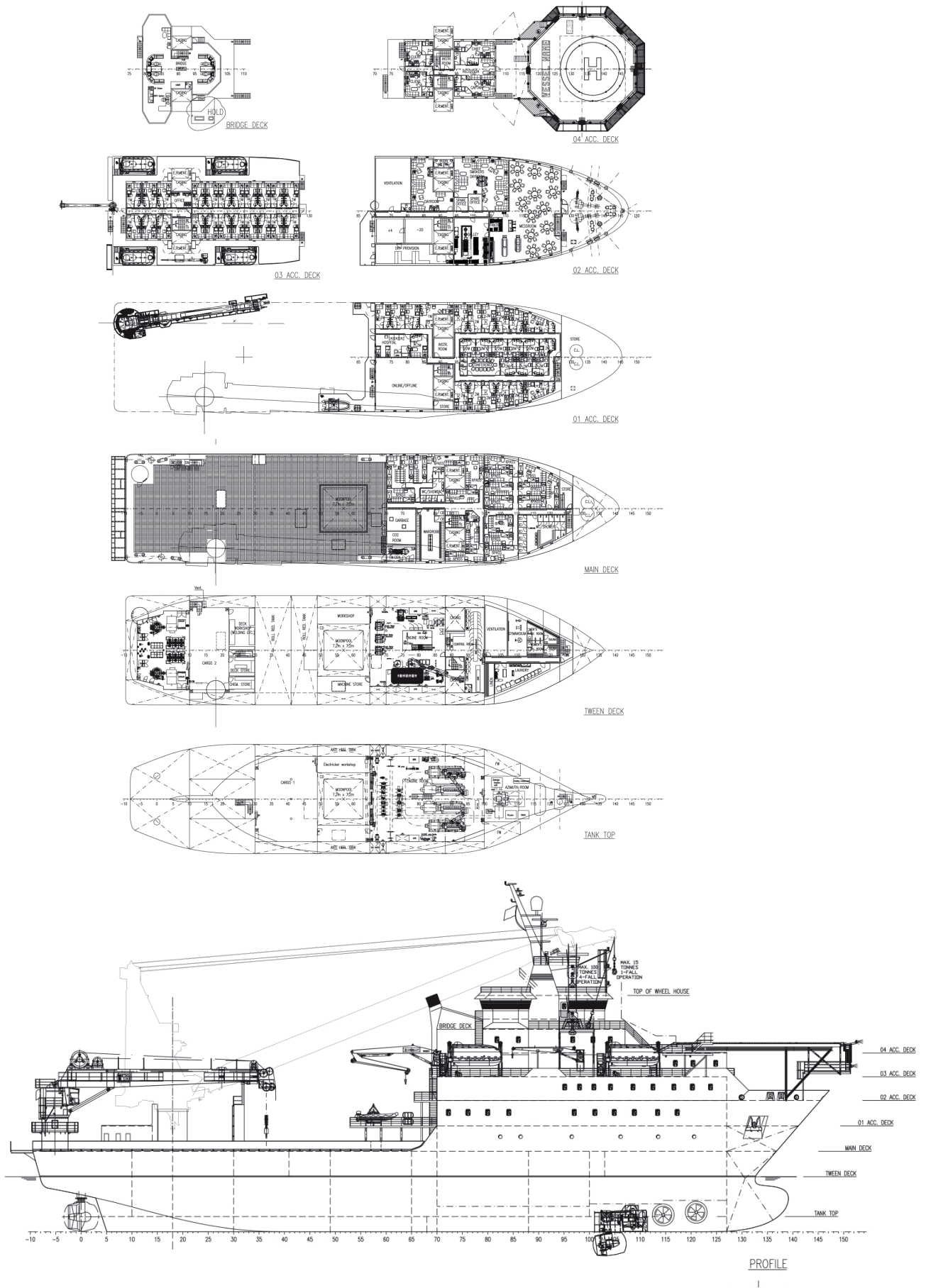
FRESHWATER GENERATOR	3 x two stage Aquamar, Type AQ-25/2
REVERSE OSMOSE	N/A
CAPACITY	73 m <sup>3</sup> /day
ANTI HEELING SYSTEM	2 x Framo anti-heeling system, 650 m <sup>3</sup> /h each
INCINERATOR	Detegasa, Delta type IRL-50, 500000 Kcal/h.
ROV SYSTEM	N/A

## DYNAMIC POSITIONING SYSTEM

DP SYSTEM	Kongsberg Simrad SDP 21
HPR	Kongsberg Simrad 500 system
DGPS	2 x DARPS SEATEX
DP LASER SENSOR	DP Laser Sensor CyScan MK4
TAUT WIRE	BANDAK AS - Type LTW MK12
GYRO COMPASSES	3 x C. Plath Navigat X MK1, Mod 10
MOTION REFERENCE UNITS	2 x MRU-2 and 1 x MRU-5
WIND SENSORS	2 x Windsensors WindObserver II

## ACCOMMODATION

MESS ROOM	1
RECREATION ROOM	2
CONFERENCE ROOM	1
RECEPTION ROOMS	N/A
CLIENT OFFICE	1
OFFICES	2
WORKSHOP	3
POWER SUPPLY	230 V, 60 Hz
TOTAL NUMBER OF BUNKS	199
SINGLE CABINS	28
2-MAN CABINS	22
4-MAN CABINS	2
6-MAN CABINS	20
MESSROOM / REC.ROOM	3
HOSPITAL	1 off with 2 beds



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