Atlantic Maritime Group FZE

AOS MAINTAINER I

Jack-Up Accommodation Barge – DP 1

PRINCIPAL PARTICULARS

Year Built:	2015
GRT/NRT:	7931 / 2379
Class:	ABS
Flag:	Panama
Call Sign:	H9LD
Type:	90m Self Propelled, Self-Elevating Lift boat

DESIGN CONDITION (OPERATING)

Wind:	36 m/s (70 kN)
Max Wave:	6.5 m
Wave Period:	8.3 s
Surface Current:	1.03 m/s
Bottom Current:	0 m/2
Variable Loads:	~1200 T

PROPULSION SYSTEM

Main Engines:	2 x 1760 kW @ 1000 rpm
Propulsion:	2 x Azimuth Thruster
Speed:	5 Kn
Bow Thruster:	1 x 600 kW thrust @ ~80 kN

MAIN DIMENSIONS

Length Overall:	85.1 m
Width Overall:	51.0 m
Hull Length:	66 m
Hull Width:	40 m
Hull Depth:	5.8 m
Clear Deck Space:	~1300 m²
LEGS AND SPUDCANS	
Number:	4 nos.
Leg Length:	90 m
Leg Overall Length:	91.5 m (inc. spud can)
Leg Structure:	Cylindrical Type
Leg Diameter:	2.80 m
Center Distance Between Legs;	
Longitudinal:	44.4 m
Transverse:	**33.o m**
Spud can size:	11.7m x 11.7m x 1.5m (Square)
Operation Depth:	60 m

SPECIFICATIONS ARE NOT CONTRACTUAL AND SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

MOORING EQUIPMENT

Mooring Winch:	4 Point Mooring
Drum Capacity:	800 m x 38 mm dia.
Drum Pull:	350 kn @ 0~6.6 m/min
	100 kn @ 0~20.0 m/min
Drum Brake Holding:	700 kn (2nd Layer, Static)
Drive:	Hydraulic Motor
Control:	Local and Remote

NAVIGATION EQUIPMENT

- Radar (X-band, S-band, LRIT ARPA)
- DGPS
- 2 x Gyro Compass
- Magnetic Compass
- Echo Sounder
- Speed Log
- Weather Instrument (Anemometer)
- AIS
- Rudder Indicators
- Electric Horn
- Aviation Radio USB for Helicopter
- Aviation Beacon
- Day Light Signal
- ECDIS (Consilium with 19" monitor)

RADIO COMMUNICATION SYSTEM

-GMDSS Communication System (A1 + A2)
- INMARSAT
- MF/HF (SSB) with DSC
- VHF-FM Marine Radio with DSC
- NAVTEX
- Ship Security Alert System (SSAS) c/w Distress
- Button
- VHF Portable Radio
- SART
- EPIRB

JACKING SYSTEM

Type:	Hydraulic, rack and pinion
	14 pinion per leg
Drive:	Hydraulic
Jacking Speed:	0.6m/min for hull
	1.2m/min for leg
Pre-loading capacity:	1960 T per leg
Jacking Capacity:	1900 T per leg
Normal Lifting:	5600 T

DESIGN CONDITION (STORM SURVIVAL)

Wind:	51.5 m/s (100 kN)
Max Wave:	9.5 m
Wave Period:	10.2 s
Surface Current:	1.8 m/s
Bottom Current:	1.03 m/s
Variable Loads:	~1200 T

HELIDECK

Helicopter Paltform:	22.2 m
Helicopter Type:	Sikorsky S-92
Helicopter Deck Load:	Acc. to Sikorsky S-92 helicopter capable of handling the maximum landing load of the helicopter complying with CAP 437 for Helideck

POWER

Main Generator:	5 x 450kw/50Hz/AC400V/3Ph
Emergency Generator:	1 x 250kw/50Hz/AC400V/3Ph

CRANE

Main Crane:	**Main Hook:**	190T @ 9.5m min. radius
		38T @ 40m max radius
	Aux Hook:	10T @ 13m~43m radius
Auxiliary Crane:	**Main Hook:**	20T @ 5.70m~20m radius
		10T @ 30m max radius
	Aux Hook:	3T 7m~33m

ACCOMMODATION

Configuration:	7 x 1 man cabins
	2 x 20 men cabins
	53 x 4 men cabins
Total:	260 men
Hospital:	1 x 2 men

Accommodation is fully air conditioned.

DYNAMIC POSITIONING

DP 1 System:	**Dynamic Positioning 1**
	- 2 x DGPS
	- 2 x Gyro Compas
	- 2 x Anemometer
	- 1 x MRU

DECK LOAD DESIGN

Main Deck (living quarter):	2.4 T/m2
Main Deck (free deck area):	5.0 T/m2
Lower Deck:	2.4 T/m2
Double Bottom:	2.4 T/m2
01 Level:	1.2 T/m2
02 Level:	0.7 T/m2
03 Level:	0.7 T/m2
04 Level:	0.7 T/m2

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LIFE SAVING & HSE

Search Lights:	2 nos (top of JCR)
Life rafts:	18 x 25 men
Lifeboats:	4 x 150 men
Fast Rescue Boat:	1 x 6.5 m JY65KR
Lifejackets:	280 sets
Lifebuoys:	10 sets
Working Vests:	25 nos.
Stretcher:	2 nos. (1 x Para guard & 1 x Robertson)
Fireman's Outfit:	4 sets
Breathing Apparatus:	2 sets + 2 spare cylinders
Fire Extinguisher:	as per SOLAS
Fixed Gas Detection System:	fitted
Rocket Parachute:	12 sets
Embarkation ladders:	2 units
Safety Nets:	50 x 50 mm
Diesel Engine Power:	125 kw Bukh Solas D170 with water jet
Speed:	3 men + 20 Knots
Cascade System:	300 Persons

MESS ROOM & GALLEY

Mess Room:	1 x crew/passenger room 1 x officer/VIP room
Walk in Chiller & Freezer:	87.4 m3 / 64.8 m3
Temperature:	+4 Chiller / -20 Freezer

CAPACITIES

Fuel Oil:	425.05 m3
Fresh Water:	984.60 m3
Drill Water:	180 m3
Dirty Oil:	12.77 m3
Ballast Tank:	1,827.27 m3
Bilge Water Tank:	12.77 m3

BARGE FACILITIES

Gangway:	2 x 20 m (steel) 2 x 12 m (aluminum)
Water maker:	3 x 40T/day
Oily water separator:	1 x 1.5 m3/hr
Sewage Treatment:	2 units
CCTV:	For each Mooring winch & each Leg + FWD & AFT barge

VIP Room, Medic & Ward, Change Room, Laundry Room, Offices (1 x Big office and 6 x Normal offices on main deck level, 4 x open offices behind bridge 3rd level), Meeting Room, Lounge, Gym, TV Room, Helicopter Waiting Room, Linen Room, Ablution & Prayer Room

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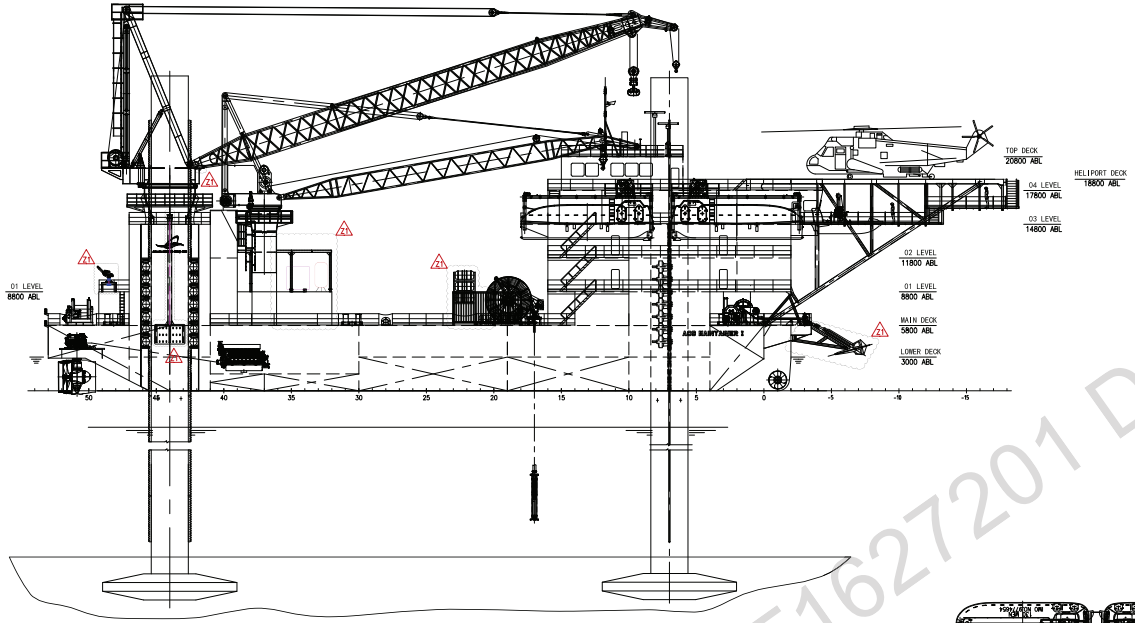
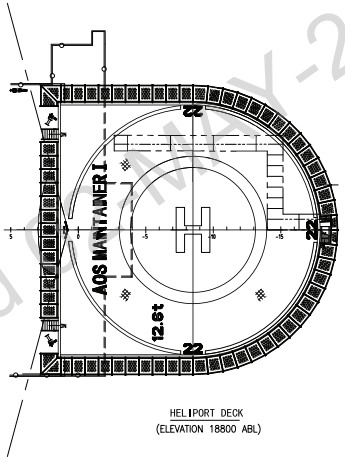
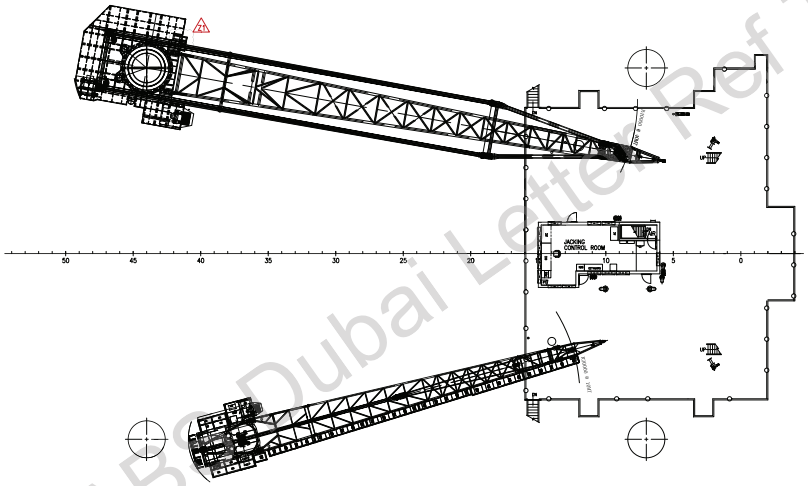
日期 DATE	版本 REV	标记 MARK	说 明 DESCRIPTION	设计 DESIGNED	校对 CHECKED	审核 AUDITED



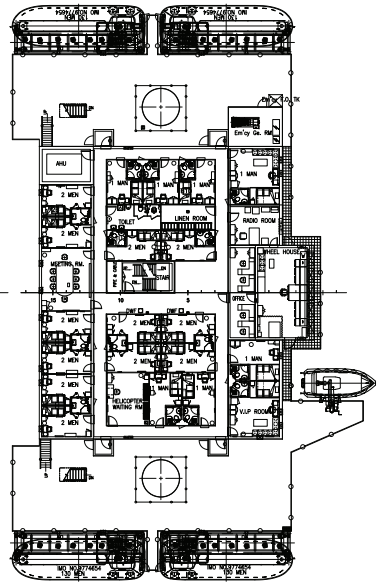


HELIPORT DECK
(ELEVATION 18800 ABL)



04 LEVEL
(ELEVATION 17800 ABL)

TOPDECK
(ELEVATION 20800 ABL)



03 LEVEL
(ELEVATION 14800 ABL)
ACCOMODATION CAPACITY : 32P

Description

Four-legged, Self-Elevating, Accommodation Unit.

Class: ABS, ● A1,Self-Elevating Unit,● AMS-NP, ● DPS-1,CRC,CPS.

Main dimension:

Length overall	86.2 m
Length	66.0 m
Breadth	40.0 m
Depth	5.8 m
Design draft(max.)	3.0 m
Max. Deck Allowable Load	5t/m²
Free Deck Area	1500m²
Variable load	Lifting and lowering 900t Elevated 1700t Towing 900t
Accommodations	260 MEN

Operating conditions

Max. Water depth	60 m
Wave height	6.3 m
Current	1.03m/s
Wind speed	25.7m/s
Design temperature	0~50℃

Jack-up Characteristics

Legs	O.D. 3.3m
Leg total height	91.5 m
Total legs lifing capacity	1400x4=5600t
Lifting speed	0.6m/min(For hull) 1.2m/min(For leg)

Main Enginex2

TYPE CWZ16V200ZC	MCR-1760KW@1000R/MIN
Bow Thruster	8t/600kW

Electric Power Station

Main Diesel Generator 400V 50Hz	450kWx5
Emergency Generator 400V 50Hz	250kW

MAIN CRANE CAPACITY	190t @ R=9.5m(min), 40t @ R=40m(max)
AUXL CRANE CAPACITY	20t @ R=20m 10t @ R=30m

FILED BY ABS FOR REFERENCE ONLY

授权会签	
总 体	Shi.rj 2015.10
结 构	Cui.XJ 2015.10
舾 装	Mao.YY 2015.10
轮 机	Wang.DL 2015.10
管 系	
通 风	Li.ry 2015.10
电 气	Yang.y 2015.10

船号 HULL NO.	DS1301	AOS Maintainer I		完工图纸 AS BUILT
审图 REVIEWED BY	ABS			
设计 DSN.	JTM	2017.04	GENERAL ARRANGEMENT	比例 SC. 1:200
校对 CHK.	SMS	2017.04		重量 W. (kg)
标准 STD.	DPV	2017.04		页数 TOT. 2
审核 AUD.	-	-		页码 P. 1
审定 APP.	-	-	DS336C-100-002	版本 REV. Z1
委托方 CLIENT			DS 天津德赛海洋船舶工程技术有限公司 Desail Offshore & Marine Engineering Co., Ltd.	

A1-L: 841 x 594

See ABS Dubai Letter Ref T1627201 Dated 09-MAY-2017