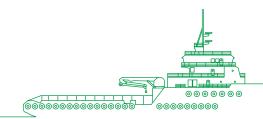


# مبارك البحرية Mubarak Marine



# Mubarak Spirit Multipurpose offshore supply vessel

At 64.8 m in length, this modern DP2 multipurpose supply vessel is equipped with a 10-ton deck crane and can hold a crew of up to 42 people. Ideal for transporting cargoes on deck, transferring fuel oil, fresh water, and mud for supporting construction and diving projects.



#### Registration

Year of build	2017
Builder	Dubai Shipbuilding & Engineering LLC
Port of registry	Dubai
Flag	UAE
Call sign	A6E2566
IMO number	9773507
Class	ABS
Owner	Mubarak Marine LLC

#### Dimensions

Length overall	64.8 m
Breadth moulded	16 m
Depth at freeboard deck	6.5 m
Draft designed	4.9 m
Lightship draft	3.3 m

# Machinery/propulsion

Main engine	2x Niigata marine diesel engines
Horsepower/RPM	6400 HP total (2x 3200 HP each) @ 750 RPM
Generator no. 1 and 2	Total of 2230 kW (2x 1115 kW each)
Generator no. 3 and 4	Total of 1100 kW (2x 550 kW each)
Emergency/harbour generator	416 kW
Propulsion units	Niigata ZP, 360 steerable, Z-drive with
	dual modulation clutch
Propellers	360° steerable Z-drive fixed pitch
Bow thruster	2210 HP total (2x 1105 HP each) CPP, motor driven

#### Tonnage

GRT	2233
NRT	669
Light ship displacement	2212 mt
Deadweight (OSV)	2048 mt

#### Performance

Service speed	13 knots @ 100% MCR
Bollard pull	82 t (ahead pull), 85 t max
Clear deck space	416 m <sup>2</sup>

#### Accommodation

Single cabin	4 persons
2-men cabin	6 persons
4-men cabin	32 persons
Total accommodation	42 persons
Galley	Raised deck
Mess room	Raised deck (24 persons in one seating)
Recreation room	Raised deck
Sick bay	Raised deck

#### Navigation/communication equipment

Magnetic compass	Lilley & Gillie - MK2000
Gyrocompass	Sperry MK 1, mod 10
Pelorus	Lilley & Gillie MK056
Track control system	NAVITRON NT999G
Radar	JRC JMA-5300 Mk2
Gyro	Kongsberg Navigat X MK I
Echo sounder	JRC JFE-380
VHF	Cobham - Sailor 6215
VHF hand held GMDSS radio	Entel HT649
AIS	RC JHS 183
SSAS/LRIT	Cobham – Sailor 6120
VHF	Cobham – Sailor 6222
MF/HF	Cobham – Sailor
NAVTEX receiver	JMC NT 1800
Simplified voyage data recorder	Danelec DM200 (S-VDR)
Receiver (GNSS)	JRC JLR 7800
9GHz radar	JRC JMA 5312
9GHz radar transponder	ACR - Pathfinder3 Sart
Two-way VHF radiotelephone	Entel HT649
VHFI DSC	Cobham – Sailor 6222
EPIRB	McMurdo Smartfind E5
Electronic plotting aid (EPA)	JRC
Speed log	JRC JLN 652
Rudder angle indicator	Niigata Power Systems ZP-41

#### **DP** system

DP system Control system DP reference system DP sensors DP-2, Kongsberg K-POS 21 Kongsberg C-JOY 2x DGPS, 1x cyscan, 1x HIPAP 3x wind sensors, gill ultrasonic, 3x gyro compass, 3x motion ref unit (2x MRU-D + 1x MRU-5)

# Firefighting/safety equipment

External firefighting	FIFI-1 class
Fire station/extinguisher	As per SOLAS
Life rafts/jackets	As per SOLAS
Rescue boat	1x 170 HP hamilton water jet suitable for 15 persons
Davit	1x hydraulic pivoting davit system, SWL 36kN

# Deck equipment

Anchor handling/towing winch	Double drum, waterfall type, electro hydraulic
Drum brake holding	200 mt (static @ 1st layer)
Drum pull (first layer)	150 mt pull at first speed (6 m/min), 75 mt pull at second
	speed (6 m/min), 25 mt pull at third speed (36 m/min)
Capacity	1000 m x 56 mm diameter wire rope
Capstan	5.5 mt rated pull capacity
Tugger winch	2x 10 mt rated pull capacity
Storage reel	1x 1000 m x 56 mm diameter rope capacity
Anchor windlass/towing drum	Hydraulic, with double gypsies and one towing drum and double
	warping heads
Windlass	42 mm chain size, 11 t gypsy pull
Towing drum capacity	220 m x 64 mm PP rope
Towing drum brake holding	90 mt (static-1st layer)
Deck crane	HEILA crane HR 180, 10 t $@$ 15 m hook travel at 90 m
Stern roller	2200 mm diameter x 5 m long
Oil dispersant boom	2x 8 m

# Capacities

575 m <sup>3</sup>
422 m <sup>3</sup>
1 unit x 12 m³/day
31.5 m <sup>3</sup>
23.4 m <sup>3</sup>
466 m <sup>3</sup> (325 m <sup>3</sup> + 141 m <sup>3</sup> )
212 m³ (4x 53 m³)
762 m <sup>3</sup>
1 unit vacuum type for black and grey water

# Cement bulk handling system

Air compressor	2 units 18.7 m³/min @ 5.6 bar
Compressor capacity	18.7 m³/min @ 5.6 bar with 90 kW/motor
Refrigerated air dryer	2 units 18 m $^3$ /min @ 6 bar with water separator, sea water
	cooling pump C/W starter and moisture separator C/W auto
	drain trap

#### Mud/brine system

Liquid mud cargo pump2 nos- two speed electric driven pumpCapacity80 m³/h, 37 m³/hLiquid mud/brine pump2 nos (1 working and 1 stand by) with cross over connectionCapacity80 m³/h, 37 m³/hLiquid mud agitator1 no. each tank - hydraulic driven of type PG-Submix 80<br/>with viscoprop 2500 mmRe-circulation systemDrop/re-circulation system vessel fitted with deluge lines<br/>located below the main deck

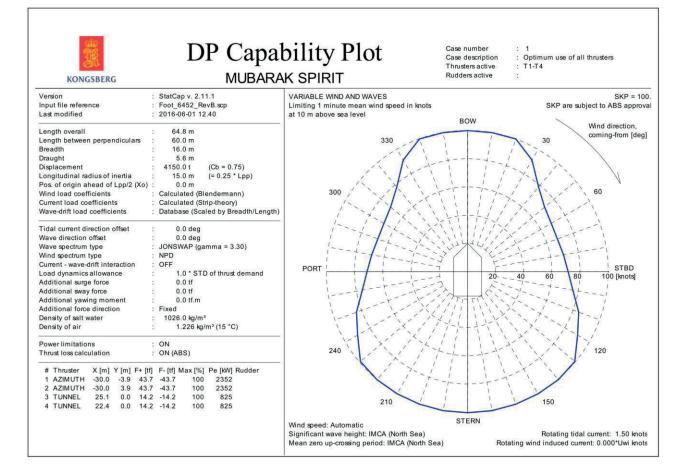
#### Other pumps

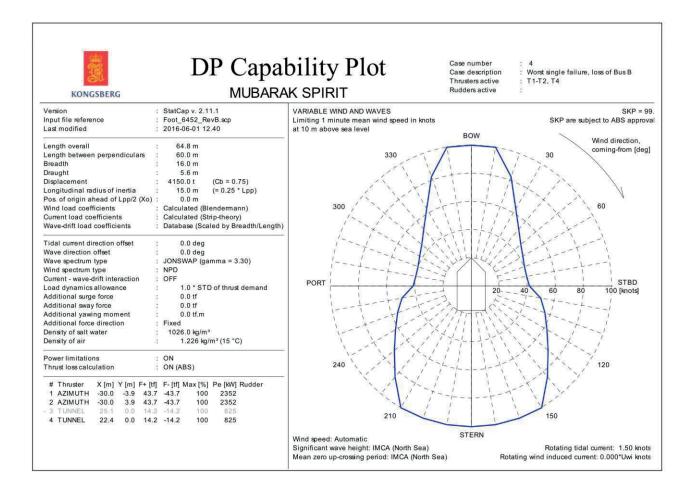
Fuel oil cargo pump Fresh water cargo pump Drill water pump Fuel oil transfer pump Bilge/ballast pump Bilge/fire main pump Fire/GS pump Emergency fire pump Lube oil transfer pump Sludge/dirty oil pump ME ST-BY FW cooling pump ME ST-BY SW cooling pump Bow thruster SW cooling FW pressure set - 2 pumps + 1 tank 100 m<sup>3</sup>/hr @ 70 m head 100 m<sup>3</sup>/hr @ 70 m head 100 m<sup>3</sup>/hr @ 70 m head 20 m<sup>3</sup>/hr @ 70 m head 60 m<sup>3</sup>/hr @ 60 m head 60 m<sup>3</sup>/hr @ 60 m head 40 m<sup>3</sup>/hr @ 60 m head 8 m<sup>3</sup>/hr @ 25 m head 8 m<sup>3</sup>/hr @ 35 m head 80 m<sup>3</sup>/hr @ 30 m head 110 m<sup>3</sup>/hr @ 20 m head 14 m<sup>3</sup>/hr @ 50 m head

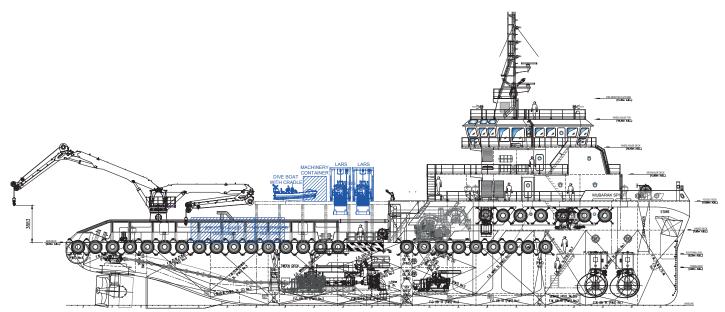


The mezzanine deck, LARS, and associated equipment were installed for the current charter and are not part of the original fit-out. The crane was also moved from midships to an aft position and can be moved back, if required.

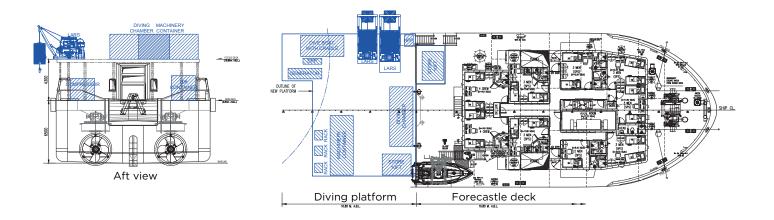
Tank number	Ballast water	Pot water	Fuel oil	Drill water	Dry bulk	Liquid mud	Brine	Lube oil	Hydro oil	Sewage	Dirty oil	Bilge water	Foam	Dispersant
01C	101.1			101.1										
301C	143.9			143.9										
31P	103			103										
31S	103			103										
32P	91.5			91.5										
32S	91.5			91.5										
33P	17.8			17.8										
33S	17.8			17.8										
34P	15.1			15.1										
34S	15.1			15.1										
206P	31			31										
206S	31			31										
101P		17.4												
1015		17.4												
102P		11.5												
102S		11.5												
11P		81.2												
11S		81.2												
12P		101												
12S		101	701											
202P			38.1											
202S 203P			38.1 51.8											
203P			51.8											
2033 207P			49.8											
207F			49.8											
2073 22P			43.8											
225			42											
24P			20.8											
24S			20.8											
27P			20.2											
275			20.2											
28P			18.6											
285			18.6											
29P			35.3											
295			35.3											
206C			21.9											
211P					53.2									
211S					53.2									
212P					53.2									
212S					53.2									
213P							77.2							
213S							63.8							
311C						178	178							
312C						147.2	147.2							
205P								7.4						
26P								2.7						
26S								2.7						
25P									3.7					
25S									3.7					
103C										12.7				
205C											7.4			
205S												7.4		
23P													20.2	
23S						_								20.2
Totals	761.8	422.2	575.1	761.8	212.8	325.2	466.2	12.8	7.4	12.7	7.4	7.4	20.2	20.2

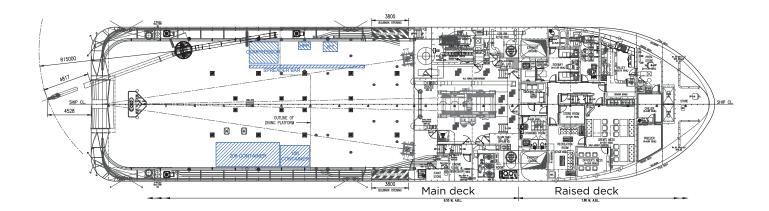


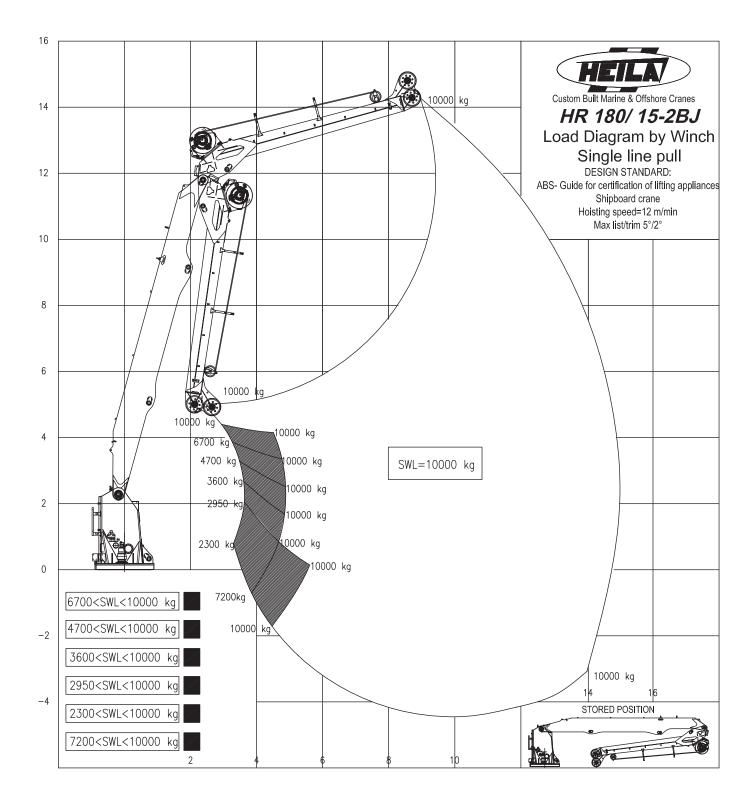




Profile







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