

# 98 M - DP2 - Multipurpose Field and ROV Support Vessel

## Vessel Specifications





# Vessel Specifications

## Registration

Year built	2019
Flag / Port registry	Marshall Islands / Majuro
Class	DNV-GL
Class notations	1A1 Offshore service vessel, SPS, BWM(T), Clean (design), COMF(C-3, V-3), Crane DK(+), DYNPOS(AUTR), E0, HELDK, NAUT (AW), Recyclable, SF

## Dimensions

Length overall	98.1 m
Breadth	20 m
Depth	8.5 m
Draft	6.0 m
Deadweight	3305 t at max draft (design)
GT	6133

## Machinery

Main propulsion	2 x Azimuth Propellers Make: RRM, Max. Continuous Power each 2000 kW
Generators	2 x 2350 kW CAT 3516 C, 2 x 1786 kW CAT 3512C 1 x 994 kW CAT C32
Bow thrusters	2 x Tunnel Thrusters. Approx.1650 kW Make: Rolls Royce, TT2400
Swing-up thruster	1 x 1500 kW Azimuth Propeller Make: RRM TCNS 100 FP
Emergency generator	1 x 325 kW CAT C9
Sewage treatment plant	1 x Ecomotive STP 120 Persons capacity
Fresh water maker	1 x RO plant, 25 m <sup>3</sup> / day TDS 35000 ppm
Oily water separator	1 x Alfa laval

## Cargo capacities and rates

Fuel oil / Discharge pump	1619 m <sup>3</sup> / 2 x 75 m <sup>3</sup> / hr @ 3 bar
F.O transfer pump	2 x 16 m <sup>3</sup> / hr @ 3 bar
MOB / Lifeboat / Filling pump	1 x 3,4 m <sup>3</sup> / hr @ 5 bar
Fresh water	729.8 m <sup>3</sup> / 2 x 75 m <sup>3</sup> /hr @ 2 bar
Drill / Ballast water	2661 m <sup>3</sup> / 2 x 150 m <sup>3</sup> / hr @ 4 bar
Deck Seawater Supply Pump	45 m <sup>3</sup> / hr @ 3 bar
MEG	417 m <sup>3</sup> / 2 x 75.2 m <sup>3</sup> / hr - 3 bar
Cargo deck area	1000 m <sup>2</sup> (55.5m x 18m)
Deck cargo capacity	1400 t (G 1m above deck) @ 10 t / m <sup>2</sup>

## Offshore sub-sea crane

Model McGregor	120 t Active Heave Compensation Offshore Knuckle Jib Crane with main winch on crane
Type	HMC 3568LKO 250-32 (1200-12) AHC
Hook travelling distance	3000 m
Max hook height	39 m above main deck
Wire	dia. 68 mm, galvanized, nonrotating type, weight dry / wet - 22.60 / 19.2 kg / m
Lifting capacity	SWL 25 t at 32 m outreach, SWL 120 t at 13 m outreach
Main Winch Hoisting speed	0-60 t - 0-60 m / min, 60-120 t - 0-30 m /min
Slewing angle	360 degrees unlimited
Whip winch	wire length - 3000 m, SWL-20 t, hoisting speed - 80 m /min
Personal lift	1.5 t

## Deck machinery and mooring equipment

Anchors	2 x bow anchors "Spek" type (M) Short Shank. Weight 4050 kg
Anchor Chain	Stud link anchor chain dia. 50 mm
Anchor windlass	2 x 13 t Electric driven combined windlass / mooring winches
Mooring Winch	2 x 10 t
Tugger winches	2 x 15 t
Helideck	aluminum, dia. 20.88 m, 12.8 t
ROV facilities	ROV hangar for 2 x WROV ROV mechanical workshop ROV online room, ROV offline room, data room / survey room
Moonpool	7.2 m x 7.2 m
Deck / provisional crane	McGregor HMC 1077 LK 3-15 (PB15) crane SWL 3 t @ 15 m

## Navigation and Communication equipment

Inmarsat C	1 x Sailor 6018 Mini C with SSAS + LRIT
Direct Printing radio receiver	1 x Sailor 6018 Telex
GMDSS VHF DSC	2 x Sailor 6222 A3
MF / HF Radio	1 X Sailor 6301 MF / HF
VHF GMDSS	3 x Portable Sailor SP3520 VHF Radios
VHF P+S wing	2 x Sailor 6210
V Sat system	1 x Orange VSAT + 1 x Sailor FBB 250

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Radars (ARPA)	1 x Band Radar, 1 x S Band Radar. Make Furuno
GPS	2 x Sailor 6004 DGNSS System
ECDIS	2 x Furuno FMD 3200 BB
AIS	1 x Sailor 6004
Autopilot	1 x Furuno FAP 3000
Navtex receiver	1 x Sailor 6004
Gyro compass	3 x Gyro Compass, Anschutz Standard 22
Echo sounder	1 x FE800
Doppler speed log	1 x Furuno DS 60
SART	2 x Tron SART 9 GHz
EPIRB	2 x Tron 60SX
VDR	1 x Furuno VR 7000
Helideck Monitoring System	Shore Connection Int.

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## Rolls Royce Icon Dynamic Positioning DP2 System

References	2 x Fugro Seastar 9200 DGPS receiver 1 x Laser based position reference system CyScan MK4 2 x Hydro acoustic reference system type Sonardyne Ranger 2 DP USBL, Range +6000 m 1 x RADIUS 1000 Microwave system with 2 interrogators on port and starboard side covering 180 degrees and RADIUS 700 Transducer. 1 x GA-830 Combined GNSS antenna
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## Emergency Rescue and lifesaving equipment

Fast Rescue boat	1 x 15 Person Make: Harding
Life boat	2 x 41 person a 95 kg / 48 person a 82.5 kg (SB Life boat certified as rescue boat) Make: Harding
Life rafts	2 x 25 persons Viking type
Life buoys, Life jackets and Immersion suits as per SOLAS standards	

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## Accommodation (82 bunks)

Cabins	Total 54, 26 x 1 berth cabins, 28 x 2 berth cabins
Offices	2
Conference room	1
Lounge	1
Gym	1
Hospital	1 x Fixed bed, 1 x Pullman bed
All cabins fully air conditioned and c / w attached toilets	

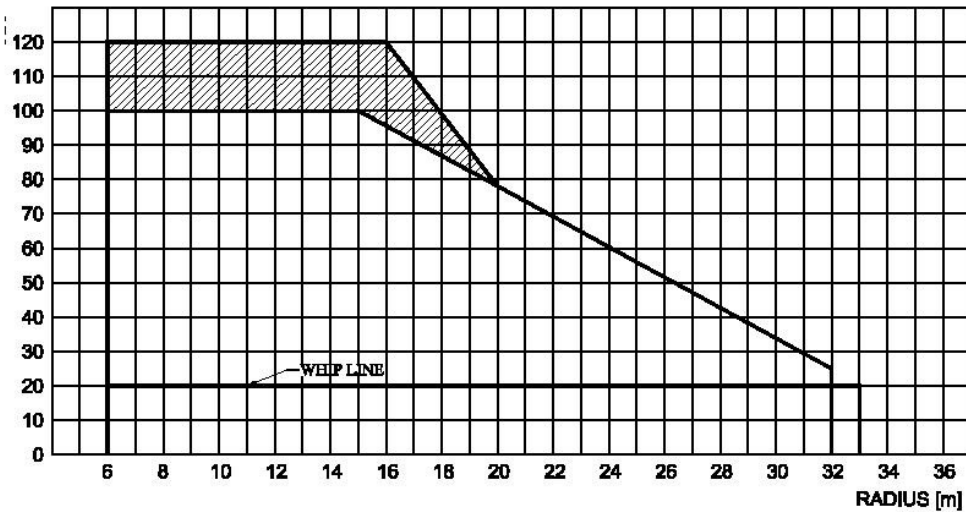
Last revision March 2019

# Vessel Specifications

## OFFSHORE/SHIPBOARD LIFT LOAD CHART FOR CALM SEA, $H_s = 0$ m

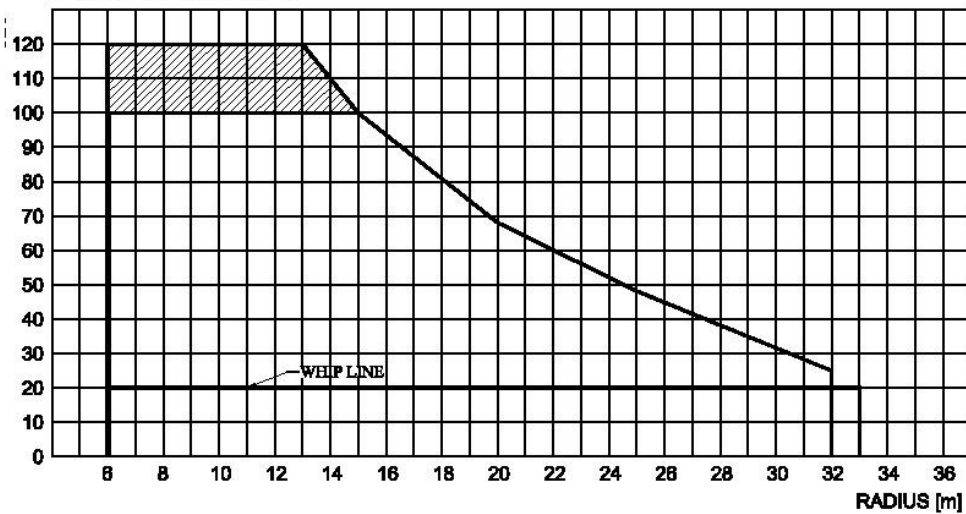
### SHIPBOARD LIFT CAPACITY

DESIGN DYNAMIC FACTOR: 1.15



### OFFSHORE LIFT CAPACITY

DESIGN DYNAMIC FACTOR: 1.30



# GA Plan

