



Specification of
Accommodation, Crane Work Barge
OCEAN MAINTAINER 1



Valentine Maritime (Gulf) LLC

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Accommodation, Crane Work Barge
OCEAN MAINTAINER 1

1. **NAME OF VESSEL** : OCEAN MAINTAINER 1
2. **OWNERS** : Valentine Maritime Ltd.
3. **YEAR BUILT** : 1966, Rebuilt 1982
4. **BUILDERS** : Globe Engineering Works, South Africa
5. **FLAG** : Panamanian
6. **PORT OF REGISTRY** : Panama
7. **GT** : 2,570
8. **NT** : 771
9. **DECK STRENGTH** : 5 MT / M²
10. **DEADWEIGHT / DISPLACEMENT**
 - Light Ship Weight : 2,449.83 MT
 - Deadweight : 1,964.94 MT
 - Displacement : 4,414.77 MT
11. **HULL**
 - a. Type of Vessel : Accommodation, Crane Work Barge
 - b. Classification : IRS, SU, PONTOON
 - c. Dimensions : Length (O.A.) 85.85 mtr (281.66 feet)

Length	81.75 mtr (268.20 feet)
Breadth	18.29 mtr (60.00 feet)
Depth	4.88 mtr (16.00 feet)
Draft	3.07 mtr (11.68 feet)
Air Draft	23.00 mtr (75.46 feet)
 - d. Fenders : Heavy duty rubber tyre fenders at regular intervals.
 - e. Mooring / Towing Fittings: Equipped with necessary Bollards Bits, Fair leads, Main & Emergency Tow Bridles.

12. CRANES

- Crawler Crane with a lifting capacity up to 250 MT with sufficient boom length with respect to a Project requirement is mobilized.

13. MOORING SYSTEM

- 8 points Mooring System
- 8 Nos. self adjusting Fair Leads with 6.5 MT Delta Flipper Anchors
- 2 Nos. Double Drum SKAGIT DTW 100 Winches with 1¾" Diameter x 4,000 Feet Long Wire Rope on each Drum.
- 2 Nos. Double Drum SKAGIT RB 90 Winch with 1½" / 1⅜" Diameter x 2,600 / 3,000 Feet Long Wire Rope on each Drum.
- All the Mooring Winches are controlled from the Barge Tower.
- All anchor lines are fitted with sensing devices for measuring tension, wire rope pay in/out length & speed.
- Winch Drums are monitored by CCTV from the tower.

14. SERVICE TANKS

- 4 Nos. Fresh Water Tanks with total capacity of : 700 Cu.M.
- 6 Nos. Fuel Oil Tanks with total capacity of : 450 Cu.M.
- 8 Nos. Ballast Tanks with total capacity of : 1200 Cu.M.

15. ACCOMMODATION

The Barge is equipped with air conditioned quarters for 142 personnel with galley, recreation rooms, hospital and offices. The available cabins are as follows: -

- Single - Berth Cabin : 04 Nos.
- Twin - Berth Cabin : 37 Nos.
- Four - Berth Cabin : 16 Nos.

Single & Twin Berth Cabins has its own shower and toilet facilities with running cold and hot water.

16. HOSPITAL

Located at Main Deck. Hospital is equipped with Medical Equipment & Beds for the observation of the patients.

17. HELIDECK

The Helideck (17.5 mtr x 17.5 mtr) is located at the BOW of the Barge and suitable for the landing of Bell 212 type Helicopters. Helideck 'D' value is 17.00 mtr.

18. HEAT, VENTILATION & AIR CONDITIONED SYSTEM

- HVAC is provided by 4 Nos. of air handlers throughout Accommodation and Offices with 100% back up.
- HVAC Ducts for cold / hot air are provide with adjustable diffusers.

19. BARGE POWER

- 1 No. × 508 kW, CAT Alternator powered by CAT C-18 Diesel Engine (380 V, 50 Hz, 3 PH, without neutral)
- 2 Nos. × 500 kW, CAT Alternator powered by CAT 3412 Diesel Engine (415 V, 50 Hz, 3 PH, without neutral)
(Main Generators are paralleled and synchronized).
- 1 No. × 292 kW, CAT SR4 Generator powered by CAT 3406 Engine (380 V, 50 Hz, 3 PH, without neutral).
(Emergency Generator starts automatically within 45 seconds in case of Main Generators failure).

20. WATER MAKER

- 1 No. × 50 MT/day Electric powered Alfa Laval VVC unit.

21. OILY WATER SEPERATOR

- 1 No. × 1 m³/hr (15 PPM) VICTOR Separator.

22. SEWAGE TREATMENT PLANT

- 1 No. × 500 persons Sewage Treatment Plant, Model – ORCA11 A 500

23. AIR COMPRESSORS

- 1 No. x 900 CFM @ 200 psi ELGI Air Compressor Diesel Driven
Model : DV 06036
- 1 No. x 800 CFM @ 125 psi Ingersoll Rand Diesel Driven
Model : XP 800

24. MAIN WORKING DECK

The clear working area of main deck is 750 m² with heavy duty timber covered crane track.

25. WORKSHOP

Barge is equipped with a workshop in the Main Deck level with following equipment.

- Lathe Machine 1 No.
- Power Hacksaw 1 No.
- Drilling Machine 1 No.
- Bench Grinder 1 No.
- Bench Vice 1 No.

26. STORES

Barge is equipped with stores to keep equipment spares, welding accessories, rigging gears, consumables & paints storage with CO₂ protection etc.

27. WELDING SYSTEM

Miller SRH 444 (400 Amps Electric) 3 Units
(Additional Welding Machines can be mobilized if required)

28. COMMUNICATION / NAVIGATION EQUIPMENT

- GMDSS Equipment for Area A1+A2+A3
- VHF DSC1
Make : SAMYUNG, Model : STR 6000 A 1 Unit
- VHF DSC 2
Make : SAMYUNG, Model : STR 6000 A 1 Unit
- MF.HF DSC
Make : SAMYUNG, Model : SRG1250DN 1 Unit
- SATC 1
Make : SAILOR, Model : TT 3000 E 1 Unit
- SATC 2
Make : SAILOR, Model : TT 3000 E 1 Unit
- BATTERY CHARGER
Make : SAMYUNG, Model : SP1250 ADC 1 Unit
- SART
Make : MCMURDO, Model : S4 RESCUE 2 Units
- EPIRB
Make : MCMURDO, Model : E5 2 Units
- GPS
Make : KODEN, Model : KGP 920 1 Unit



- NAVTEX
Make : JMC, Model : NT 900 1 Unit
- AIS
Make : SAMYUNG, Model : SI 30 1 Unit
- GMDSS W/T
Make : ACR, Model : SR 103 3 Units
- VHF AIR BAND
Make : JOTRON, Model : TR 6101 1 Unit
- VHF
Make : SAILOR, Model : RT 2048 5 Units
- RADAR
Make : KODEN, Model : MDC 1820P 1 Unit
- ECHO SOUNDER
Make : JMC, Model : 6202 1 Unit
- GYRO COMPASS
Make : YOKOGAWA, Model : CMZ 900 1 Unit
- MAGNETIC COMPASS
Make : RITCHIE, Model : MA 023D0 1 Unit
- MINI M
Make : T/T, Model : CAPSAT 1 Unit

29. **BALLAST / BILGE PUMPS**

Barge is equipped with Ballast and Bilge pumps as detailed below:

Ballast Pump

- 1 No. × 600 m³/hr @ 110 mtr head Ballast Pump

Bilge Pump

- 2 Nos. × 110 m³/hr @ 90 mtr head Stanflow Main Bilge Pumps
- 2 Nos. × 110 m³/hr @ 90 mtr head Stanflow Emergency Bilge Pumps

30. **FIRE FIGHTING EQUIPMENT / FACILITIES**

Fire Pumps

- 1 No. × 90 m³/hr @ 70 mtr head Shanghai Liancheng Main Fire Pump
- 1 No. × 90 m³/hr @ 70 mtr head Shanghai Liancheng Emergency Fire Pump
- 1 No. × 600 m³/hr @ 110 mtr head Ballast Pump also can be used as Emergency Fire Pump.

Fire Fighting System / Extinguishers

- As per SOLAS / Class Requirement

31. HEAT AND SMOKE DETECTION

Fixed Fire detectors are installed in all Cabins, Corridors, Service area and Machinery Space. The control panel is installed at the Tower.

Make : Tyco Fire & Safety, UK, Model : T1216.

32. H₂S AND LEL GAS DETECTION

H₂S and LEL Gas Detectors installed in main deck with audible & visual alarms in Accommodation & Radio Room (Only installed when needed for a Project)

33. LIFE SAVING APPLIANCES

- **Life Rafts / Life Jackets**
As required by Flag / Class Society
- **Life Buoys & MOB**
As required by Flag / Class Society
- **Pyrotechnics**
As required by Flag / Class Society
- **Fast Rescue Boat**
1 × 6 Person JIANGYINSHI Fast Rescue Boat, Type JYB60G

GENERAL ARRANGEMENT - OCEAN MAINTAINER 1

