



Jack-Up Barge MCD 914

Profile and Data Sheet

March 2024





MCD 914 Jack-Up Barge



The MCD 914 is a multi-purpose, self-elevating, marine construction platform. Designed by Gusto MSC, this innovative piece of equipment sets the benchmark for productivity in the development of jetties and nearshore marine facilities. With the ability to operate in waters up to 30 metres deep, the incorporated 300-tonne pedestal crane and its dedicated transport barge; the MCD 914 provides an extraordinary advantage to any suitable project.

Jacking system

Make	Gusto MSC
System	Positive engagement
Leg type	Tubular
Capacity (preload)	1300 ton/leg
Pontoon lifting speed	24 m/hr
Standard leg length	55 m
Maximum operational water depth	30 m

Crane

Make	Favelle Favco
Type	PC 300
Lifting capacity main hoist	300 ton @ 16 meter
Lifting capacity auxiliary hoist	32 ton
Current boom length	59.6m
Equipped with 2 x 150T x 4 fall main hoist winch	
Equipped with 2 x tugger winches	

Pontoon

Dimensions	46.5 X 30.3 X 4.5 m
Draft	2.4 m
Deck Load	8T/m ²
Jacking Payload capacity	750T
Classification	ABS, A1 Self-elevating Unit
Capacity fuel tank	116 m ³
Capacity fresh water tank	2 x 55 m ³
Capacity sewage tank	15m ³
Dirty Oil tank	5m ³
Flag State	Dampier / Australia

Accommodation

Main deck: deck store, first aid room, machinery rooms
 Tween deck: mess hall (24) c/w kitchenette, wash/change room, toilet.
 Upper deck: twin cabin, three offices, meeting room, toilet, janitor stores.
 Vessel to Vessel transfer stairway



Power sources

Main generators 2 x 450 kVA
Auxiliary generator 1 x 120 kVA

Mooring system

Number of winches 4
Pulling force 25 ton
Holding force 60 ton
Wire diameter 32 mm
Drum capacity 500 m
Anchors 4 x 3T Delta Flipper




Piling testing facilities

Maximum pile diameter 3000 mm
Maximum compression test 12.5 MN
Maximum tension test 9 MN

Foundation equipment

A wide range of piling and drilling equipment can be made available for the installation of piles. The MCD 914 comes equipped with 2 hydraulic pile gates, suitable for use with piles up to 1500mm diameter. The following equipment has been used previously:

- Impact hammers up to 500 kNm
- Vibration hammers up to 115 kgm
- Drill rigs up to 20 tonmeter

CRANE MODEL PC300 S/No. 1843 WITH 59.6m BOOM ON JACK-UP-BARGE																												
JACKED UP (FIXED PLATFORM) LOAD CHART - MAIN HOIST 2 x 4 FALLS																												
EACH WINCH IS NOT TO EXCEED 150 TONNES OR THE STATED SWL, WHICHEVER IS LESSER.																												
SAFE WORKING LOAD (SWL) IN TONNES - THE MAIN HOIST IS NOT RATED FOR PERSONNEL LIFTING																												
RADIUS (m)	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0	API RECOMMENDED MIN HOOK SPEED AT SUPPLY BOAT ELEVATION		
BOOM ANGLE (DEGREES)	82.2°	80.3°	78.3°	76.3°	74.3°	72.3°	70.3°	68.2°	66.1°	64.0°	61.8°	59.5°	57.3°	54.9°	52.5°	50.0°	47.6°	44.7°	41.9°	38.8°	35.6°	32.0°	28.1°	23.5°	17.8°			
PLATFORM DF=1.33	ONBOARD	300.0	300.0	300.0	291.5	281.6	270.0	260.7	236.7	216.1	198.3	182.7	168.9	156.7	145.7	135.2	125.7	117.0	109.2	102.0	95.3	89.3	83.6	78.4	73.6	69.2		
SIGNIFICANT WAVE HEIGHT 0.6 m & MAX WIND SPEED 20m/s	OFFBOARD	280.0	280.0	280.0	276.0	270.0	253.0	237.3	217.1	199.5	184.3	170.7	158.6	147.7	137.9	129.1	121.0	113.7	107.0	100.8	95.1	89.0	83.5	78.3	73.4	68.9	0.167 m/s	
SIGNIFICANT WAVE HEIGHT 1.0 m & MAX WIND SPEED 20m/s	OFFBOARD	262.3	261.9	260.9	259.5	254.3	227.8	212.7	193.7	177.3	163.0	150.5	139.4	129.5	120.7	112.8	105.6	99.1	93.3	87.8	83.0	78.4	74.3	70.5	66.9	63.8	0.20 m/s	
SIGNIFICANT WAVE HEIGHT 2.0 m & MAX WIND SPEED 20m/s	OFFBOARD	169.7	169.7	169.7	169.7	169.7	161.8	158.7	147.2	134.4	123.3	113.5	104.9	97.2	90.4	84.4	78.9	74.0	69.6	65.5	61.9	58.5	55.5	52.7	50.1	47.8	0.30 m/s	
JACKED UP (FIXED PLATFORM) LOAD CHART - FLY HOIST 2 FALL																												
SAFE WORKING LOAD (SWL) IN TONNES - THE FLY HOIST IS RATED FOR PERSONNEL LIFTING																												
RADIUS (m)	13.3	15.3	17.4	19.5	21.6	23.6	25.7	27.8	29.9	31.9	34.0	36.1	38.2	40.2	42.3	44.3	46.4	48.5	50.5	52.6	54.6	56.7	58.7	60.7	62.7	API RECOMMENDED MIN HOOK SPEED AT SUPPLY BOAT ELEVATION		
BOOM ANGLE (DEGREES)	82.2°	80.3°	78.3°	76.3°	74.3°	72.3°	70.3°	68.2°	66.1°	64.0°	61.8°	59.5°	57.3°	54.9°	52.5°	50.0°	47.6°	44.7°	41.9°	38.8°	35.6°	32.0°	28.1°	23.5°	17.8°			
PLATFORM DF=1.33	ONBOARD	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	28.0	21.1	14.5		
	PERSONNEL	8																										
SIGNIFICANT WAVE HEIGHT 0.6 m & MAX WIND SPEED 20m/s	OFFBOARD	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	27.8	21.3	14.6	0.478 m/s
	PERSONNEL	8																										
SIGNIFICANT WAVE HEIGHT 1.0 m & MAX WIND SPEED 20m/s	OFFBOARD	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	25.8	18.5	11.8	0.478 m/s
	PERSONNEL	8																										
SIGNIFICANT WAVE HEIGHT 2.0 m & MAX WIND SPEED 20m/s	OFFBOARD	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	24.5	18.5	12.8	7.4	0.478 m/s
	PERSONNEL	8																										
THIS LOAD CHART IS BASED ON THE GENERAL METHOD OF API 2C 6th ED WITH MAX HEEL ANGLE 2.0° AND MAX TRIM ANGLE 2.0° AND REEVED IN ACCORDANCE WITH DRG No. A3-5000.421 IN THE CRANE MANUAL. SEISMIC LOADS HAVE NOT BEEN INCLUDED IN THE LOAD CHART. ICE OR SNOW LOADING HAVE NOT BEEN INCLUDED IN THE LOAD CHART. THE CRANE IS DESIGNED AND MANUFACTURED BY FAVELLE FAVCO CRANES.																												
LOADS DEPICTED AS SHOWN  DO NOT COMPLY WITH THE MINIMUM API HOISTING SPEED.																												

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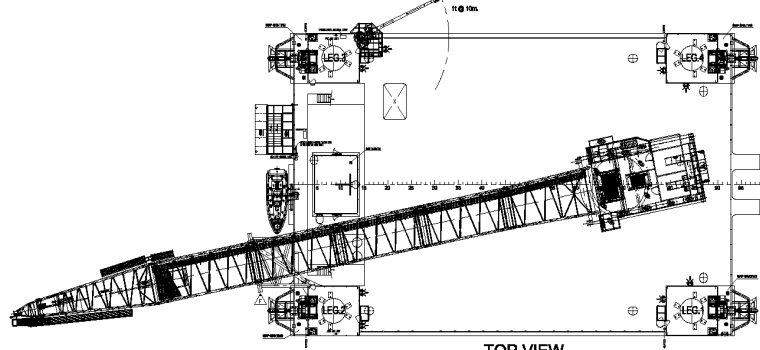
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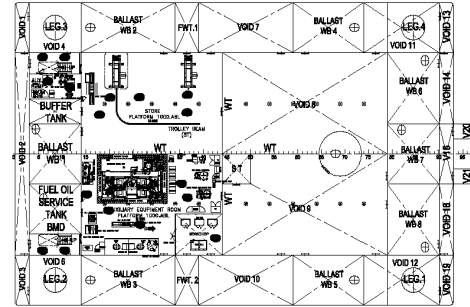
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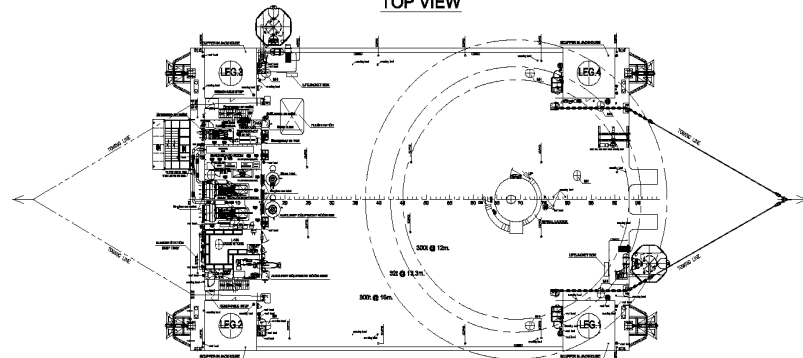
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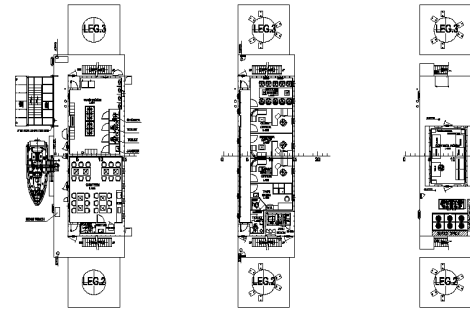
TOP VIEW



BELOW MAIN DECK



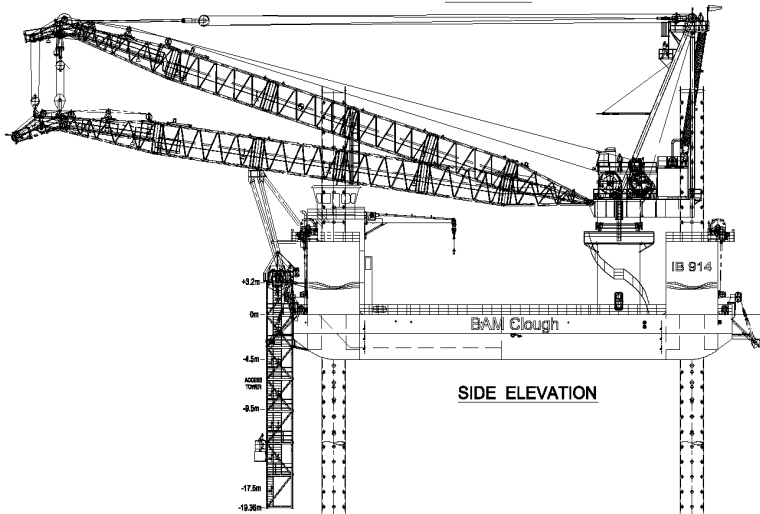
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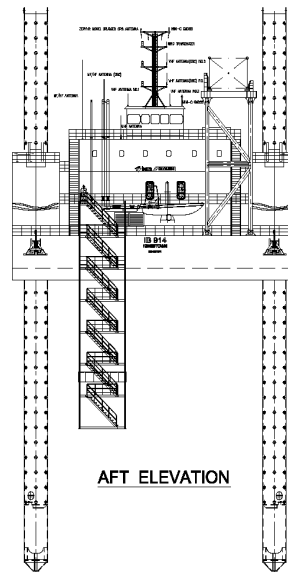
TWAIN DECK

UPPER DECK

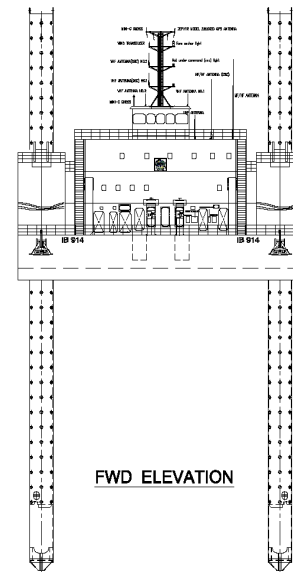
BRIDGE DECK



SIDE ELEVATION



AFT ELEVATION



FWD ELEVATION

MAIN DIMENSIONS
 LENGTH 48.5 m.
 WIDTH 30.3 m.
 DEPTH 4.5 m.
 LEG LENGTH 55.0 m.

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OWNER	1
CLASS	-
HULL	-
MACH	-
PIPING	-
OUTF/C	-
HVAC	-
E&I	-
SHOP	-
PJM	1
QA/QC	-
HSE	-
TC-NI	-
TD-NI	-
Total	2

NO	DESCRIPTIONS & NOTES	BY	DATE
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LIST OF ALTERATIONS

ITEM	DWG NO	DRAWING NAME OR DOCUMENTS TITLE
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LIST OF REFERENCED DRAWINGS AND DOCUMENTS

DATE	REV	DESCRIPTION	DWN	CHKD	APPD
2013/07/15	E	AS BUILD	ALL	LTL	GX
2013/07/11	D	AS BUILD	ALL	LTL	GX
2013/06/03	C	AS BUILD	ALL	LTL	GX
2012/12/10	B	ISSUE FOR CONSTRUCTION	ALL	LTL	GX
2012/11/20	A	ISSUE FOR APPROVAL	ALL	LTL	GX

BUILDER	COSCO (NANTONG) SHIPYARD CO. LTD	SCALE	1:200	NO	1099
		DWG			208

OWNER	McCConnell Dowell
PROJECT	BAM CLOUGH JV IB914
DWG TITLE	GENERAL ARRANGEMENT

DWG No.	N499-M102-01
SY No.	N/A
SCALE	1:200
SHEET	1/1
STATUS	AS BUILT

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