

# Jack-Up Barge Santa Fe

# **Profile and Data Sheet**

March 2024











The Santa Fe is a multi-purpose, self-elevating, marine construction platform. Designed by Gusto MSC, the Santa Fe provides flexibility for the development of nearshore marine infrastructure. With the flexibility to operate with a crawler crane or tower crane, the integrated helipad and the availability of 12M leg extensions; the Santa Fe can be customised to suit your needs.

#### Jacking system

Make	IHC Gusto Engineering
System	Positive engagement
Leg type	Square
Capacity (preload)	1000 ton/leg
Pontoon lifting speed	12 m/hr
Standard leg length	49 m
Maximum operational water dep	th 30-45 m

## **Crane Options**

Tower Crane	Favelle Favco
Model	M2480D
Previous capacity main hoist	132 ton @ 20 meter
Previous boom length	64.8m

# **Crawler Crane**

Design crane	Kobelco SL6000
Max. operating weight of crane	445 ton
Previous capacity main hoist	130 ton @ 16 meter
Previous boom length	54m

#### Pontoon

Dimensions	35.0 X 30.3 X 4.1 m
Draft	3.1 m
Jacking Payload capacity	680t with M2480D
Classification	B.V, Offshore service unit
Capacity fuel tank	26 m³
Capacity fresh water tank	14 m³
Capacity sewage tank	1.5m <sup>3</sup>
Flag State	Dampier / Australia

#### Accommodation

Main deck: deck store, machinery rooms Tween deck: mess room and kitchenette, jacking office, spare office, male and female toilets with showers. Upper deck: two large offices, meeting room, emergency accommodation for eight personnel. Vessel to Vessel transfer stairway Helipad



# Power sources

Jacking generators Auxiliary generators 2 x 380V 400 kVA 2 x 415v 100 kVA

# Mooring system

Number of winches
Pulling force
Holding force
Wire diameter
Drum capacity
Anchors

6 30 ton 60 ton 34 mm 300 m 6 x 5T Delta Flipper (Not currently fitted)

## Foundation equipment

A wide range of piling and drilling equipment can be made available for the installation of piles. The Santa Fe 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

#### Helipad

The removable helipad has been designed to comply with Cap 437. It is currently rated for a Eurocopter AS350 B3 with a MTOW of 2500kg or equivalent.

The helipad is upgradeable to suit a Eurocopter EC145 with a MTOW of 3585kg.

_			225				
				4-#4 H	OLES		
+			LOAD CHART	r	<del>4</del> 2		1
			8m BOOM				- 1
				110			- 1
		MAIN HOIS	T: THREE FA				
				OAD (SWL) IN TOP	-		
RADIUS	BOOM ANGLE		SIGNIFICANT WAVE HEIGHT 0.5 METRES	SIGNIFICANT WAVE HEIGHT 1.0 METRE	SIGNIFICANT WAVE HEIGHT 1.5 METRES		
(METRES)	(DEGREES)	ON PLATFORM	OFFBOARD	OFFBOARD	OFFBOARD		- 1
7.3	85.9	165.0	165.0	121.4	96.2		
10.0	83.5	165.0	157.0	115.7	92.1		- 1
12.5	81.3	165.0	149.4	112.4	90.2		- 1
15.0	79.0	165.0	143.5	109.1	88.2		- 1
17.5	76.7	165.0	138.2	105.1	85.3		- 1
20.0	74.4	165.0	132.3	101.4	82.7		- 1
22,5	72,1	165.0	126.8	98.0	80,4		- 1
25.0	69.7	165.0	120.3	94.9	78.2		- 1
27.5	67.3	157.1	113.8	91.9	76.2		- 1
30.0	64.9	141.3	107.9	89.2	74,4		- 1
32.5	62.4	127.9	102.4	86.6	72.6		330
35.0	59-8	116-4	97.5	84.1	71.0		~
37.5	57.2	106.5	92.9	81.7	69.4		- 1
40.0	54.4	97.8	88.6	79.4	67.9		- 1
42.5	51.6	90.1	84.4	77.1	66.4		- 1
45.0	48.6	83.3	78.5	74.8	65.0		- 1
47.5	45.5	77.2	72.8	69.8	63.6		- 1
50.0	42.2	71.8	67.4	64.9	62.0		- 1
52.5	38.7	66.9	62.3	60.2	57.7		- 1
55.0	34.8	62.5	57.1	55.5	53.4		- 1
57.5	30.5	58.4	52.0	50.7	49.0		- 1
60.0	25.5	54.8	46.7	45.7	44.5		- 1
62.5	19.2	51.5	40.7	40.1	39,3		- 1
63.7	15.3	50.0	37.3	36.8	36.3		
			CTURE WITH MAX				
MAX. ALLOW	ED OFFLEAD/SI	DELEAD ANGLE 2.	5º/1.2º FOR SIGIN	FICANT WAVE HE	IGHT UP TO 1.0m	0.	- 1
MAX. ALLOW	ED OFFLEAD/SI	DELEAD ANGLE 3.	0º/1.5º FOR SIGIN	IFICANT WAVE HE	IGHT UP TO 1.5m	6 TYP	
<u>₽</u> <sup>н</sup>	OOK WEIGHT -	4.5 TONNE		A2170-1	402 REV. A		
		DET	AIL ITEM 1		6 TYP	- 1	
		REFER DXF	A2170-1402-001	A			

Date		Description			Rev
TOLER	ANCES				16 16 1940
Machine	d Dimensions:	Tolerances requi	red UNO		1000
≤30 ±0.2	>30 - ≤100 ±0,3	>100 - ≤300 ±0.5	>300 - ≤1000 ±0.8	>1000 - ≤2000 ±1.2	a sum of a
		Tolerances regul			X 8 2 8
	1000 - ≤2000	>2000 - ≤3000		>6000 - 29000	O
±1	<u>±2</u>	±3	±4	±5	91
FAVELLE FAVCO CRANES PTY. LTD, Australia Aux. 29 067 562 449 A scientific of MUH0B34H ENGINEERING BHD					
TRie					
M2480D LOAD CHART - 64.8m BOOM - THREE FALLS					
Drawn	Draft Checked	Eng Checked	Approved	Scale: S	iheet:
DPR	JQP	JQP	JPD	1:1.5	1 OF 1
A-	1 Wwight	First Used On 5/9			
WE:	- 1	1775	A	2170-1402	

R6 TYP -/



