



BRASHER TIDE as shown, GARZA TIDE similar

## 70 M FUJIAN MAWEI PLATFORM SUPPLY VESSEL

### Vessel Characteristics

Length, Overall:	229.7 ft	70 m
Beam:	55.1 ft	16.8 m
Depth:	24.6 ft	7.5 m
Maximum Draft:	20.7 ft	6.3 m
Light Draft:	10.8 ft	3.3 m
Minimum Height:	85 ft	25.9 m
Freeboard:	3.9 ft	1.2 m
Displacement:	4,940 lt	5,020 mt
Deadweight:	2,940 lt	2,980 mt
Clear Deck Space:	135 x 46 ft	41 x 14 m
Clear Deck Area:	6,170 ft <sup>2</sup>	570 m <sup>2</sup>
Deck Strength AFT:	1,020 lb/ft <sup>2</sup>	5 t/m <sup>2</sup>
Class Notations:	ABS: +A1, (E), Offshore Support Vessel, FFV-1, +AMS, +DPS-2, UWILD	

### Capacities

Deck Cargo:	1,280 lt	1,300 t
Fuel Oil:	327,000 gal	1,240 m <sup>3</sup>
Potable Water:	41,100 gal	160 m <sup>3</sup>
Fresh Water:	65,100 gal	250 m <sup>3</sup>
Drill/Ballast Water:	169,000 gal	640 m <sup>3</sup>
Bulk Tanks (4 tanks):	6,800 ft <sup>3</sup>	190 m <sup>3</sup>
Liquid Mud (2.5 SG*):	3,760 bbl	600 m <sup>3</sup>
*Max Structural Specific Gravity		
Oil Dispersant:	5,660 gal	21.4 m <sup>3</sup>
Fire Fighting Foam:	5,660 gal	21.4 m <sup>3</sup>

## TIDEWATER

Find out more

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Pg.2 Further Specifications

Pg.4 Capacity Table

Pg.3 General Arrangement

Pg.5 DP Capability Plot

Machinery

Main Engines (2):	Niigata 6L28HX		
Total HP:	4,930		
Z-Drives:	Yes		
Propellers (2):	FPP NIIGATA ZP-41A		
Kort Nozzles:	2		
Primary Generators (3):	800 kw	410 v	50 hz
Driven by:	Cummins KTA38-D(MI)		
Secondary Generators (1):	330 kw	410 v	50 hz
Driven by:	Cummins KTA19		
Emergency Generators (1):	80 kw	410 v	50 hz
Driven by:	Cummins 6BT5.9(M)		
Bow Thruster (2):	Brunvoll FU63-LTC-1550 TT CPP		
Driven by:	1x610kW; 1x575kW Electric Motors		
Total Thrust:	19.8 st	18 mt	

Deck Equipment

Anchors (2):	4067 lbs Stockless Bower HHP
Anchor Chain:	460 m of 46 mm chain per side
Windlass:	Electro-Hydraulic (13t @ 18m/min)
Crane (1):	2.2 t @ 12.2 m
Capstans (2):	10 t Electro-Hydraulic
Tugger (1):	10 t ELECTRO-HYDRAULIC

Accommodations

No. of Berths:	26
Cabins:	4x1-man, 5x2-man & 3x4-man
Certified to Carry:	26
Galley seating:	26
Hospital:	Yes

Registration

Flag: VANUATU	Home Port: PORT VILA
Hull Number: 6188	IMO N <sup>o</sup> : 9539638
Year Built: 2009	Call Sign: YJVU2
Builder:	FUJIAN MAWEI
Tonnage (ITC):	2369 GT710 NT

Performance\*

Fuel Consumption Vs Speed		
Maximum:	20 m³/day (220 gph) @ 13 knots	
Cruising:	16 m³/day (180 gph) @ 11.5 knots	
Economical:	12.3 m³/day (130 gph) @ 10 knots	
Standby:	1.6 m³/day (18.1 gph) @ 0 knots	
Range @ 10 Knots:	25,400 nm	
Transfer Rates		
Fuel Oil:	880 gpm @ 300 ft	200 m³/h @ 90 m
Fresh Water:	660 gpm @ 280 ft	150 m³/h @ 85 m
Drill/Ballast Water:	880 gpm @ 260 ft	200 m³/h @ 80 m
Bulk:	28 cfm @ 220 ft	47.5 m³/h @ 66 m
Liquid Mud:	330 gpm @ 300 ft	75 m³/h @ 90 m

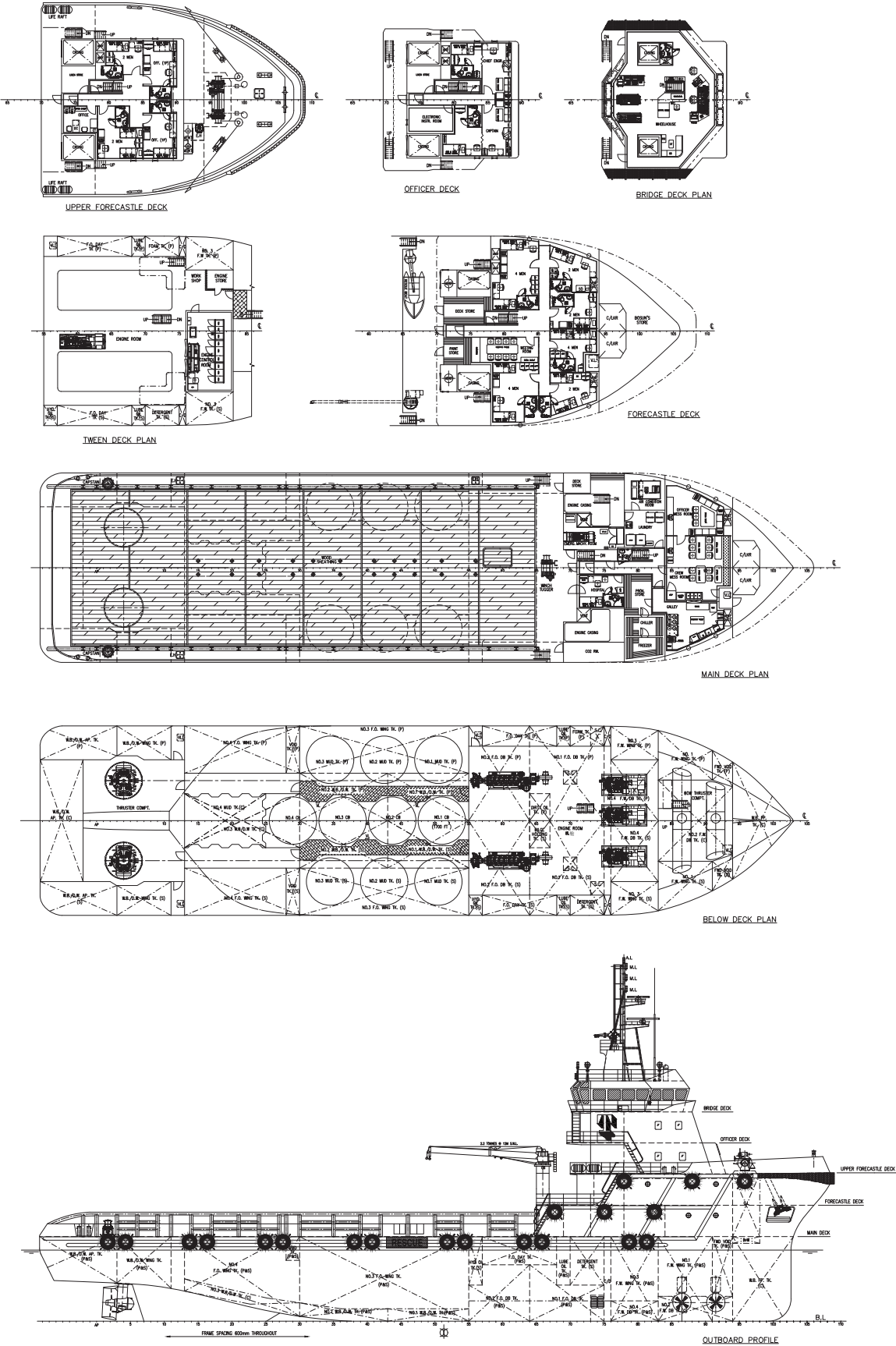
Nav/Comms Equipment

Radar(s):	2
Depth Sounder:	1
Cyro Compass:	2
Wind Speed Indicators:	2
Doppler Log:	1
Radio:	2 x VHF
Sat Com:	1XINMARSAT-C

Special Equipment

Firefighting:	FiFi-1
Dynamic Positioning:	DP-2
Ref. Systems:	2 x MRU; 2 x DGPS 1 x Laser-based
Water Maker:	5T/DAY
Mud Circulation System:	Yes
Rescue Zone:	Yes
Rescue Boat:	Solas Approved
Reefer Sockets:	2x 220V 32A; 1x 415V 63A; 5x 415V 32A
Misc:	MSD - 30 Persons

\*Approximate values assuming Ideal Conditions



# GARZA TIDE

## Capacity Table



Tank Table														
Tank	Contents	Volume m <sup>3</sup>	Base Oil	Fuel Oil	Dry Bulk	DW/WB	Potable Water	Fresh Water	Brine	Liquid Mud	Methanol	Lube Oil	Foam	Oil Disp.
WB FP Tk C	DW/WB	151.6				151.6								
No. 1 WB/DW Tk P	DW/WB	31.2				31.2								
No. 1 WB/DW Tk S	DW/WB	31.2				31.2								
No. 2 WB/DW Tk P	DW/WB	31.4				31.4								
No. 2 WB/DW Tk S	DW/WB	31.4				31.4								
No. 3 WB/DW Tk C	DW/WB	51.0				51.0								
WB/DW Wing Tk P	DW/WB	42.9				42.9								
WB/DW Wing Tk S	DW/WB	42.9				42.9								
WB/DW AP Tk P	DW/WB	47.8				47.8								
WB/DW AP Tk S	DW/WB	47.8				47.8								
WB/DW AP Tk C	DW/WB	130.3				130.3								
No.1 FW Wing Tk P	Ships FW	77.9					77.9							
No.1 FW Wing Tk S	Ships FW	77.9					77.9							
No. 2 FW DB Tk C	FW	58.0						58.0						
No.3 FW Wing Tk P	FW	56.9						56.9						
No.3 FW Wing Tk S	FW	56.9						56.9						
No. 4 FW DB Tk P	FW	37.3						37.3						
No. 4 FW DB Tk S	FW	37.3						37.3						
FO Day Tk P	FO	29.1		29.1										
FO Day Tk S	FO	29.1		29.1										
No. 1 FO DB Tk P	FO	89.2		89.2										
No. 1 FO DB Tk S	FO	88.3		88.3										
No. 2 FO DB Tk P	FO	97.1		97.1										
No. 2 FO DB Tk S	FO	97.1		97.1										
No. 3 FO Wing Tk P	FO	228.3		228.3										
No. 3 FO Wing Tk S	FO	228.3		228.3										
No. 4 FO Wing Tk P	FO	205.6		205.6										
No. 4 FO Wing Tk S	FO	205.6		205.6										
No. 1 Mud Tk P	LM	76.7								76.7				
No. 1 Mud Tk S	LM	76.7								76.7				
No. 2 Mud Tk P	LM	76.7								76.7				
No. 2 Mud Tk S	LM	76.7								76.7				
No. 3 Mud Tk P	LM	74.2								74.2				
No. 3 Mud Tk S	LM	74.2								74.2				
No. 4 Mud Tk C	LM	142.4								142.4				
Lube Oil (P)	LO	9.0										9.0		
Lube Oil (S)	LO	9.0										9.0		
Foam Tk	Foam	21.4											21.4	
Detergent Tk	Dispersant	21.4												21.4
No. 1 CEM Tk C	Dry Bulk	48.1			48.1									
No. 2 CEM Tk C	Dry Bulk	48.1			48.1									
No. 3 CEM Tk C	Dry Bulk	48.1			48.1									
No. 4 CEM Tk C	Dry Bulk	48.1			48.1									
Total Volume [m <sup>3</sup> ]			0.0	1,297.5	144.4	639.4	155.8	246.3	0.0	597.5	0.0	18.0	21.4	21.4
Spec Sheet Total Volume [m <sup>3</sup> ]			0.0	1,239.3	144.4	639.4	155.8	246.3	0.0	597.5	0.0	18.0	21.4	21.4

\*Capacities shown are for lead vessel. Actual capacities may vary slightly.

\*Capacities shown in **RED** are excluded from the total volume.

\*Capacities shown in **BLUE** are included in another Tank's Capacity.

\*Capacities shown in **GREEN** are counted for multiple Tank Capacities.



KONGSBERG

DP Capability Plot

VMW618

Case number : 4  
Case description : All thrusters enabled, 1kt of current  
Thrusters active : T1-T4  
Rudders active :

Version : StatCap v. 2.9.0  
Input file reference : Foot\_2479\_RevB.scp  
Last modified : 2013-11-26 13.49

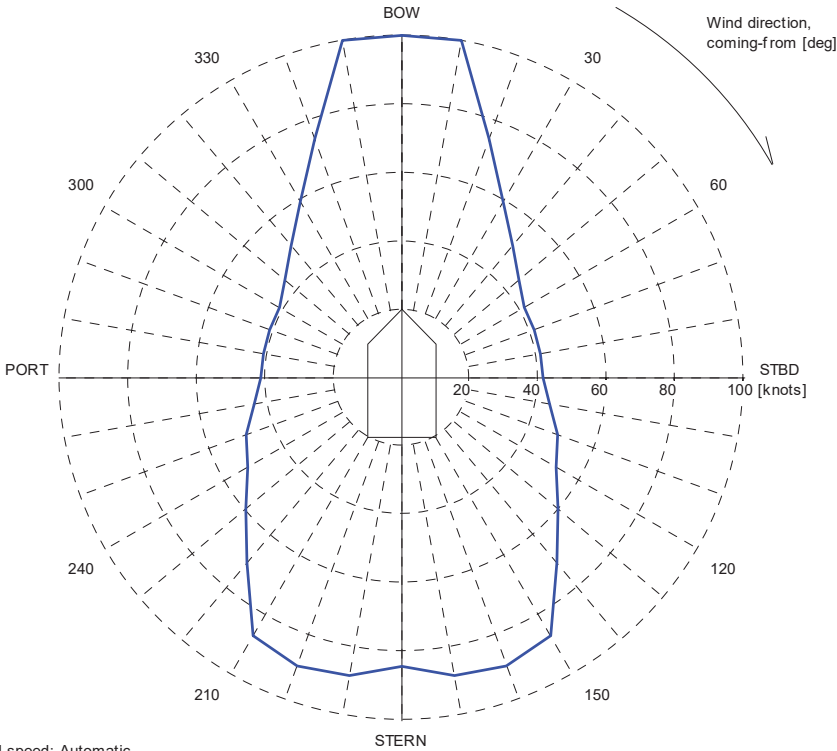
Length overall : 70.0 m  
Length between perpendiculars : 61.6 m  
Breadth : 16.8 m  
Draught : 6.3 m  
Displacement : 4600.0 t (Cb = 0.69)  
Longitudinal radius of inertia : 15.4 m (= 0.25 \* Lpp)  
Pos. of origin ahead of Lpp/2 (Xo) : 0.0 m  
Wind load coefficients : Calculated (Blendermann)  
Current load coefficients : Calculated (Strip-theory)  
Wave-drift load coefficients : Database (Scaled by Breadth/Length)

Tidal current direction offset : 0.0 deg  
Wave direction offset : 0.0 deg  
Wave spectrum type : JONSWAP (gamma = 3.30)  
Wind spectrum type : NPD  
Current - wave-drift interaction : OFF  
Load dynamics allowance : 1.0 \* STD of thrust demand  
Additional surge force : 0.0 tf  
Additional sway force : 0.0 tf  
Additional yawing moment : 0.0 tf.m  
Additional force direction : Fixed  
Density of salt water : 1026.0 kg/m³  
Density of air : 1.226 kg/m³ (15 °C)

Power limitations : OFF  
Thrust loss calculation : ON

#	Thruster	X [m]	Y [m]	F+ [tf]	F- [tf]	Max [%]	Pe [kW]	Rudder
1	TUNNEL	24.0	0.0	9.1	-9.1	100	610	
2	TUNNEL	21.0	0.0	8.6	-8.6	100	575	
3	AZIMUTH	-28.3	3.5	30.0	-18.5	100	1700	
4	AZIMUTH	-28.3	-3.5	30.0	-18.5	100	1700	

VARIABLE WIND AND WAVES  
Limiting 1 hour mean wind speed in knots  
at 10 m above sea level



Wind speed: Automatic  
Significant wave height: Gulf of Mexico  
Mean zero up-crossing period: Gulf of Mexico

Rotating tidal current: 1.00 knots  
Rotating wind induced current: 0.000\*Uwi knots