**KIM HENG** 

# BRIDGEWATER

## **VESSEL PROFILE** Think Better • Do Better • Be Better

#### **Owner & Operator of Marine & Offshore Support Vessels**

- Provision of Ocean Towage & Transportation
- Provision of Heavy-lift & Equipment

KIMHEN

- Emergency Salvage & Pollution Response
- Port & Marine Civil Engineering Infrastructure Projects

Yard: 9 Pandan Crescent Singapore 128465 Office: 48 Penjuru Road Singapore 609152





	VESSEL LIST										
No	VESSEL	Туре	GRT / NRT	BHP	BP (Ton)	LOA (M)	DWT (MT)	Deck Area(M2)	FiFi	Year Built	Flag
	LONG DISTANCE TOWING SALVAGE ANCHOR HANDLING TUG										
1	Bridgewater 161	AHT	2658 / 797	12000	156	68	2800	380	1	2007	SGP
2	Bridgewater 168	AHT	2658 / 797	12000	156	68	2800	380	1	2007	SGP

3	Bridgewater 130	AHTS-DP2	2708 / 812	10800	130	70	2180	500	1	2009	SGP
4	Bridgewater 131	AHTS-DP2	2708 / 812	10800	130	70	2180	500	1	2009	MY
5	Bridgewater 132	AHTS-DP2	2708 / 812	10800	130	70	2180	500	1	2010	MY
6	Bridgewater 108	AHTS-DP2	2759 / 827	8320	110	75	2500	500	1	2012	МІ
7	Mazu 60	AHTS-DP1	1678 / 503	5150	65	60	1356	360	1	2011	MY
8	Bridgewater 63	AHTS	1678 / 503	5150	65	60	1360	360	1	2010	MY
9	Bridgewater 68	AHTS	1678 / 503	5150	60 - 70	60	1360	360	1	2007	MY

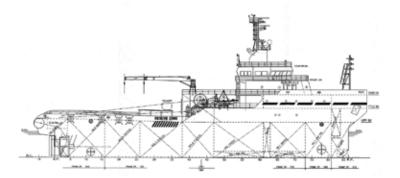


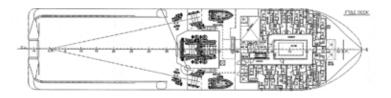
#### BRIDGEWATER 161 12,000BHP 156TBP 68M AHT FiFi 1/2

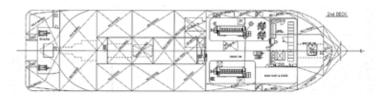


12,000BHP 156TBP Anchor Handling Tug Long Distance Ocean Towage & Salvage

- ► 12,000 BHP (9,000KW) Controllable Pitch Propulsion
- ▶ 800kw Bow Thruster and 600kw Stern Thruster
- ► Fuel Capacity : 2050 MT // Clear Deck 380 m2
- Deadweight Capacity 2,800 MT
- Emergency Rescue & Salvage & Oil Spill Response
- ► Fire-Fighting FiFi ½ Foam / Water Dual Monitor
- V-SAT Ku Band Intellian V85
- Environmental IMO Compliance
- Accommodation for 36 person
- 16 cabins with ensuite bathroom
- ► 6 Single Berth Cabin / 5 Double Berth Cabin / 5 x 4 Berth Cabin
- 1 Ship Office & Instrument Room
- ▶ 1 x 2 Berth Hospital Cabin with Ensuite Bathroom
- Galley with 2 Mess Room
- Recreation Room & Gym Facility
- Laundry Room
- ► PPE Changeout with Ensuite Bathroom

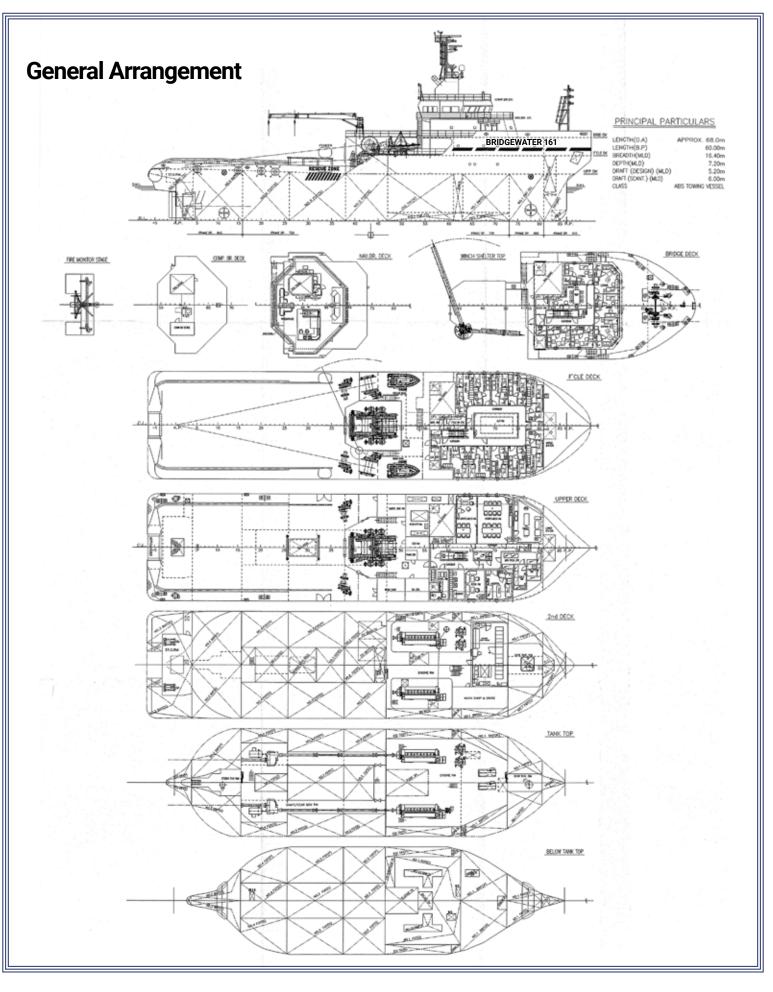








#### BRIDGEWATER 161 12,000BHP 156TBP 68M AHT FiFi 1/2





#### **BRIDGEWATER 161** 12,000BHP 156TBP 68M AHT FiFi 1/2

MAIN PARTICULARS		OWNER / MANAGER	BRIDGEWATER OFFSHORE PTE LTD
Vessel Name	BRIDGEWATER 161		KIM HENG MARINE & OILFIELD PTE LTD
IMO No.	9351842		enquiry@kimheng.com.sg www.kimheng.com.sg
Year Built	2007-03	Telephone / Fax	(65) 6777 9990 / (65) 6778 9990
Place Built Port - Flag Registry	Japan Marine United Corp JAPAN SINGAPORE	BRIDGE NAVIGATION EQUIPMENT	
Callsign	S6HA7	S-Band Radar 10cm ARPA28	1 x Furuno FAR 2117S
Official No.	392061	X-Band Radar 3cm ARPA28	1 x Furuno FAR 2137S
GRT / NRT	2658 / 797	Auto Pilot cw rudder Indicator	Tokimec PR-6000
ABS Class Certificate No.	07161527	Magnetic Compass	2 x Tokimec SH-165A1
Class Notation	ABS AA1 Anchor Handling Towing Salvage	Gyro Compass	Tokimec TG-8000 /8500
	Tug Circle E AMS Unrestricted Navigation	Echo Sounder AIS	Furuno FE-700 with repeater FE720 Furuno FA-150
MMSI	565338000	Navtex	Furuno NX-700 with printer NX-700A
DIMENSIONS		Weather Fax	Furuno FAX-410
Length - OA	68.00 M	Wind Vane Anemometer	Nippon Electric N-52+8205
Length - BP Breadth - Moulded	60.00 M 16.40 M	Doppler Speed Log	Furuno DS-80
Depth - Moulded	7.20 M	DGPS	FURUNO MD-550
Designed Draft	5.20 M	GPS	2 x FURUNO GP-150
Deadweight @ 6.00M draft	2800 tons Indicatively	ECDIS (Multi function display)	TRANSAS Navi-Sailor 4000
Main Cargo Deck ( L x B )	27.0 M X 13.3 M	BRIDGE COMMUNICATION & MON	IITORING EQUIPMENT
Free Deck Area	380 M2	IMMARSAT Comm C	Furuno FELCOM 15
Salvage Rope Hold (on deck)	71 m3	Marine SSB Radio system	Furuno FS2570C / HS2001
BULK CAPACITIES		VHF DSC	2 x Furuno FM8800S
Fuel Oil (LSMGO)	2050 m3	Portable VHF (GMDSS)	3 set ENTEL HT649
Diesel Oil Tank	200 m3	EPIRB 406 / 121.5 mhz /Sart	THRANE SE406-11 / Ocean Signal S100
Fresh Water Water Ballast	185.0 m3 980.0 m3	Potable VHF(fire fighting) Portable VHF Radio	2 ENTEL HT944 5 x Motorola GP328
Diesel Oil Service Tank	17 m3	Towing & Anchoring Handling	Fukushima Control Panel
Lube Oil Tank	24 m3	Loud Hailer TalkBack System	Nippon Hakuyo OHE-3167A
Sludge Tank	25 m3	CCTV surveillance system	Anchor Handling & Bridgewatch
Dirty Oil Tank / Bilge Tank	1 m3 / 7 m3	Auto Telephone	Nippon Electronic OAE-7116
MACHINERY		BNWAS System	Tokyo Keiki ADO-001
Main Engine Propulsion	2 x 4500kw@750rpm Wartsila 9L32 Diesel	V-SAT Ku Band Intellian V85 with	1024/ 512 MIR 128/64 CIR
	Engine SCH75-P53 CPP Propeller in Kort Nozzle	FIRE FIGHTING CAPABILITY - ABS	FiFi Class 1
Bow Tunnel Thruster	1 x 12te thrust @ 800kw RR Kamewa TT1850	Main Ship Fire Pump	1 x 75m3/h @90m head
Stern Tunnel Thruster Auxilliary Diesel Genset	1 x 9.2te thrust @ 590kw RR Kamewa TT1650 2 x 300kw Leroy LSAM47.2M7 MAN D2876LE301	Emergency Fire Pump	1 x 40m3/h @50m head
Shaft Generator	2 x 1200kw 415V/3P/50Hz Wartsila DSG74L2-4W	Dual Foam/Water Monitor	2 x 600m3/h @120m
Emergency / Harbor Genset	1 x 60kw Leroy LSAM44.2VS3 MAN D0824LE201	Ext Fire Pump Jason SRG256K01 Aker Kvarner JASON Eureka Fire F	1 x 1200m3/h @140M head
Main Air Compressor	2 x 22m3/h Sanwa S8A 2 stage Air cooled	Foam (Fire fighting) Tank	13 m3
Aux Service Air Compressor	1 x 30m3/h Sanwa S10A 2 Stage Air cooled	Water Curtain Spray System	Accommodation & main deck
PERFORMANCE & CONSUMPTION		Consilium NSAC-1 Fixed Fire Figh	ting CO2 system
Maximum Speed @design draft	14.5 Kts @ 46 mt/day (@100% MCR)	LIFE SAVING AND STANDBY RESC	
Service Speed (Full Ahead)	13 Kts @ 38 mt/day (@85% MCR)	Fitted in Compliance with IMO SO	
Service Speed (3/4 Ahead)	11 Kts @ 31mt/day (@70% MCR)	NDA16 SWL 21kN Launching & Re	
Economical Speed (Half Ahead) Slow Speed ( Slow Ahead)	9.0 Kts @23 mt/day (@57% MCR) 6.0 kts @21 mt /day (@52% MCR)	NDA16 Davit with 6-pax Norsafe N	
Outport Standby Operations	6.0 mt / day	NDA16 Davit with 6-pax Norsafe N	/K I Rigid Work Boat
Anchor in Port	1.5mt / day	ANTI POLLUTION & SALVAGE CAP	
ANCHOR HANDLING TOWING EQU	IPMENT	Dispersant Storage Capacity	13 m3
Bollard Pull Approximately	156 tonnes	Dispersant Spray Boom 6Mtr	2 Set
Anchor Handling Towing Winch	Double drum waterfall Brattvaag SL300/ BSL300W	Emergency Anti Pollution Kit	1 set
Line Pull Capacity	300 tonnes @ 1st layer	External Oil Recovery System	Optional IMO TIER 1 Capability
Brake Holding Capacity	400 tonnes @ 1st layer	ACCOMMODATION & FACILITIES	
Towing Drum Capacity Max	Wire diameter 76mm x 1500 m length		rconditioning System for 36 Persons
Anchor Handling Drum Max Storage Reel w/spare wire	Wire diameter 76mm x 1500 m length Wire diameter 76mm x 1500 m length		erth; 5 x 4 berth c/w Ensuite Bathroom
Towing Pins	1 x Karmoy Retractable SWL 200 tonnes	1 Hospital cw 2 x Single Berth , Sh	·
Shark Jaws / Karm Fork	1 x Karmoy Retractable SWL 350 tonnes	Galley, Mess Room, Recreation Ro	oom, Gymnasium Room
Stern roller Manabe Zoki	Dia. 2m x Length 4.5m SWL 350 tonnes	Dry Provision Store, Cold Room &	
DECK MACHINERY AND MOORING	EQUIPMENT	1 x Laundry Room ; 1 x PPE Chang	je Out locker Room
Recovery / Tugger Winch	2 x SWL 20 te RECW3-20/610 Dia 26mm x 200m	ENVIRONMENTAL IMO MARPOL O	COMPLIANCE
Capstan	2 x SWL 10 te HCAS-10/450 Electro Capstan	Taiko Kikai SBT40 SCT-200P Sew	
Deck Crane	1 x SWL 2t @14m Hyd Telescopic TTS GPT 80-2-14	15-ppm Taiko Kikai USH-05 Oily V	Vater Separator of 0.5m3/hr
Anchor Windlass	1 x SWL 10te F3236-W210 double	Water Maker Sasakura KE-15 15	-
	gypsy windlass with 2 warping drum	Alfa Laval SA821 fuel Oil Purifier	
Anchor Chain	2 x dia 38 mm x 880 m U3 studlink anchor chain	Anti Air Pollution Engines Exhaust	•
Anchor	2 x AC14 HHP 1710Kg Anchor	Salvage Wreck Recovery & Oil Spil	i containment Capability

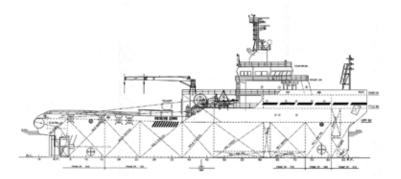


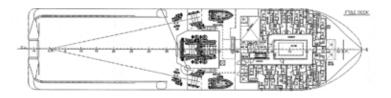
#### BRIDGEWATER 168 12,000BHP 156TBP 68M AHT FiFi 1/2

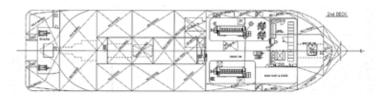


12,000BHP 156TBP Anchor Handling Tug Long Distance Ocean Towage & Salvage

- ► 12,000 BHP (9,000KW) Controllable Pitch Propulsion
- ▶ 800kw Bow Thruster and 600kw Stern Thruster
- ► Fuel Capacity : 2050 MT // Clear Deck 380 m2
- Deadweight Capacity 2,800 MT
- ► Emergency Rescue & Salvage & Oil Spill Response
- ► Fire-Fighting FiFi ½ Foam / Water Dual Monitor
- V-SAT Ku Band Intellian V85
- Environmental IMO Compliance
- Accommodation for 36 person
- 16 cabins with ensuite bathroom
- 6 Single Berth Cabin / 5 Double Berth Cabin
   / 5 x 4 Berth Cabin
- 1 Ship Office & Instrument Room
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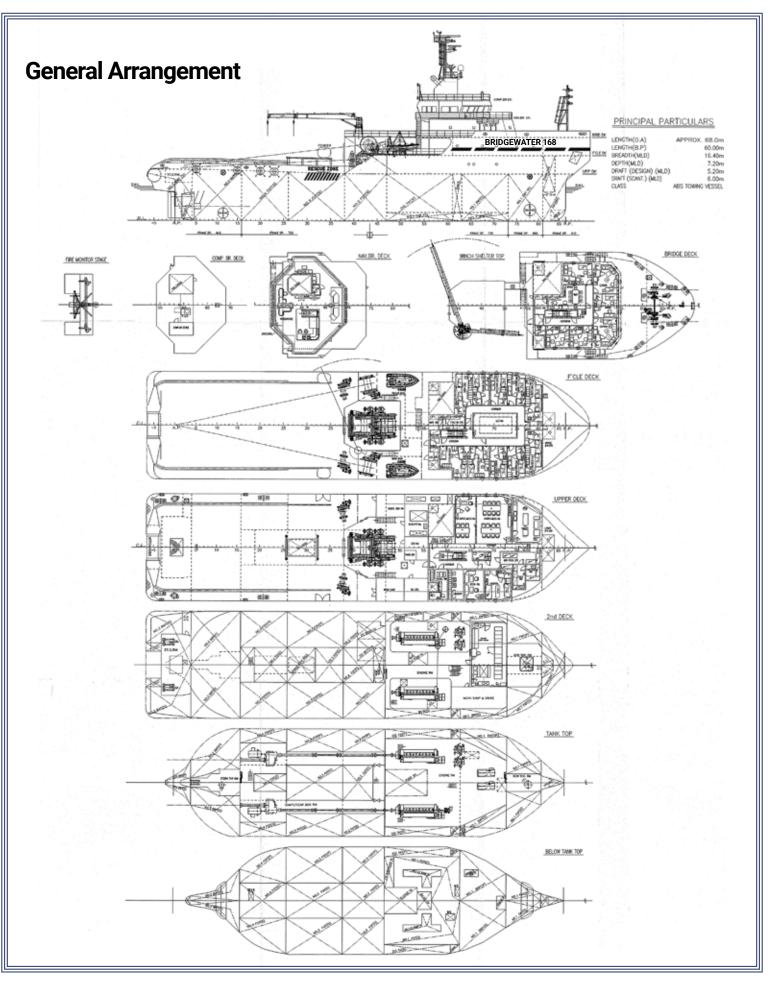








#### BRIDGEWATER 168 12,000BHP 156TBP 68M AHT FiFi 1/2





#### **BRIDGEWATER 168** 12,000BHP 156TBP 68M AHT FiFi 1/2

**BRIDGEWATER OFFSHORE PTE LTD** 

MAIN PARTICULARS		OWNER / MANAGER
Vessel Name	BRIDGEWATER 168	
IMO No.	9351830	
Year Built	2007-03	
Place Built	Japan Marine United Corp JAPAN	– Telephone / Fax
Port - Flag Registry	SINGAPORE	BRIDGE NAVIGATION EQUIPME
Callsign	S6HA6	S-Band Radar 10cm ARPA28
Official No.	392060	X-Band Radar 3cm ARPA28
GRT / NRT	2658 / 797	Auto Pilot cw rudder Indicator
ABS Class Certificate No.	07161528	Magnetic Compass
Class Notation	ABS AA1 Anchor Handling Towing Salvage	Gyro Compass
	Tug Circle E AMS Unrestricted Navigation	Echo Sounder
		AIS
MMSI	565337000	_
DIMENSIONS		Navtex
Length - OA	68.00 M	Weather Fax
Length - BP	60.00 M	Wind Vane Anemometer
Breadth - Moulded	16.40 M	Doppler Speed Log
Depth - Moulded	7.20 M	DGPS
Designed Draft	5.20 M	GPS
Deadweight @ 6.00M draft	2800 tons Indicatively	ECDIS (Multi function display)
Main Cargo Deck (L x B)	27.0 M X 13.3 M	
Free Deck Area	380 M2	BRIDGE COMMUNICATION & M
	71 m3	IMMARSAT Comm C
Salvage Rope Hold (on deck)	711113	Marine SSB Radio system
BULK CAPACITIES		VHF DSC
Fuel Oil (LSMGO)	2050 m3	Portable VHF (GMDSS)
Diesel Oil Tank	200 m3	EPIRB 406 / 121.5 mhz /Sart
Fresh Water	185.0 m3	Potable VHF(fire fighting)
Water Ballast	980.0 m3	Portable VHF Radio
Diesel Oil Service Tank	17 m3	Towing & Anchoring Handling
Lube Oil Tank	24 m3	Loud Hailer TalkBack System
Sludge Tank	25 m3	CCTV surveillance system
Dirty Oil Tank / Bilge Tank	1 m3 / 7 m3	Auto Telephone
• •	1 113 / 7 113	BNWAS System
MACHINERY		V-SAT Ku Band Intellian V85 wit
Main Engine Propulsion	2 x 4500kw@750rpm Wartsila 9L32 Diesel	V SAT Ru Band intellian Vos wi
	Engine SCH75-P53 CPP Propeller in Kort Nozzle	FIRE FIGHTING CAPABILITY - A
Bow Tunnel Thruster	1 x 12te thrust @ 800kw RR Kamewa TT1850	– Main Ship Fire Pump
Stern Tunnel Thruster	1 x 9.2te thrust @ 590kw RR Kamewa TT1650	Emergency Fire Pump
Auxilliary Diesel Genset	2 x 300kw Leroy LSAM47.2M7 MAN D2876LE301	Dual Foam/Water Monitor
Shaft Generator	2 x 1200kw 415V/3P/50Hz Wartsila DSG74L2-4W	<ul> <li>Ext Fire Pump Jason SRG256K0</li> </ul>
Emergency / Harbor Genset	1 x 60kw Leroy LSAM44.2VS3 MAN D0824LE201	
Main Air Compressor	2 x 22m3/h Sanwa S8A 2 stage Air cooled	Aker Kvarner JASON Eureka Fin
	1 x 30m3/h Sanwa S10A 2 Stage Air cooled	– Foam (Fire fighting) Tank
Aux Service Air Compressor	1 x 30m3/h Sanwa S10A 2 Stage Air cooled	Water Curtain Spray System
PERFORMANCE & CONSUMPTION	1 x 30m3/h Sanwa S10A 2 Stage Air cooled	
·	1 x 30m3/h Sanwa S10A 2 Stage Air cooled 14.5 Kts @ 46 mt/day (@100% MCR)	Water Curtain Spray System Consilium NSAC-1 Fixed Fire Fi
PERFORMANCE & CONSUMPTION		Water Curtain Spray System Consilium NSAC-1 Fixed Fire Fit
PERFORMANCE & CONSUMPTION Maximum Speed @design draft		Water Curtain Spray System Consilium NSAC-1 Fixed Fire Fit LIFE SAVING AND STANDBY RE Fitted in Compliance with IMO S
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead)	14.5 Kts @ 46 mt/day (@100% MCR) 13 Kts @ 38 mt/day (@85% MCR)	Water Curtain Spray System Consilium NSAC-1 Fixed Fire Fit LIFE SAVING AND STANDBY RE Fitted in Compliance with IMO S NDA16 SWL 21kN Launching &
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (3/4 Ahead)	14.5 Kts @ 46 mt/day (@100% MCR) 13 Kts @ 38 mt/day (@85% MCR) 11 Kts @ 31mt/day (@70% MCR)	Water Curtain Spray System Consilium NSAC-1 Fixed Fire Fit LIFE SAVING AND STANDBY RE Fitted in Compliance with IMO S
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (3/4 Ahead) Economical Speed (Half Ahead)	14.5 Kts @ 46 mt/day (@100% MCR) 13 Kts @ 38 mt/day (@85% MCR) 11 Kts @ 31mt/day (@70% MCR) 9.0 Kts @23 mt/day (@57% MCR)	Water Curtain Spray System Consilium NSAC-1 Fixed Fire Fit LIFE SAVING AND STANDBY RE Fitted in Compliance with IMO S NDA16 SWL 21kN Launching &
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (3/4 Ahead) Economical Speed (Half Ahead) Slow Speed ( Slow Ahead)	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day	Water Curtain Spray System Consilium NSAC-1 Fixed Fire Fit LIFE SAVING AND STANDBY RE Fitted in Compliance with IMO S NDA16 SWL 21kN Launching & NDA16 Davit with 6-pax Norsafe
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (3/4 Ahead) Economical Speed (Half Ahead) Slow Speed ( Slow Ahead) Outport Standby Operations Anchor in Port	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day	Water Curtain Spray System Consilium NSAC-1 Fixed Fire Fit LIFE SAVING AND STANDBY RE Fitted in Compliance with IMO S NDA16 SWL 21kN Launching & NDA16 Davit with 6-pax Norsafe NDA16 Davit with 6-pax Norsafe ANTI POLLUTION & SALVAGE C
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PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (3/4 Ahead) Economical Speed (Half Ahead) Slow Speed ( Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes	Water Curtain Spray System Consilium NSAC-1 Fixed Fire Fit LIFE SAVING AND STANDBY RE Fitted in Compliance with IMO S NDA16 SWL 21kN Launching & NDA16 Davit with 6-pax Norsafe NDA16 Davit with 6-pax Norsafe ANTI POLLUTION & SALVAGE C
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (3/4 Ahead) Economical Speed (Half Ahead) Slow Speed ( Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W	Water Curtain Spray System Consilium NSAC-1 Fixed Fire Fit LIFE SAVING AND STANDBY RE Fitted in Compliance with IMO S NDA16 SWL 21kN Launching & NDA16 Davit with 6-pax Norsafe NDA16 Davit with 6-pax Norsafe ANTI POLLUTION & SALVAGE C Dispersant Storage Capacity
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (3/4 Ahead) Economical Speed (Half Ahead) Slow Speed ( Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes	Water Curtain Spray System           Consilium NSAC-1 Fixed Fire Fit           LIFE SAVING AND STANDBY RE           Fitted in Compliance with IMO S           NDA16 SWL 21kN Launching &           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           ANTI POLLUTION & SALVAGE C           Dispersant Storage Capacity           Dispersant Spray Boom 6Mtr
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (3/4 Ahead) Economical Speed (Half Ahead) Slow Speed ( Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W	Water Curtain Spray System Consilium NSAC-1 Fixed Fire Fit LIFE SAVING AND STANDBY RE Fitted in Compliance with IMO S NDA16 SWL 21kN Launching & NDA16 Davit with 6-pax Norsafe NDA16 Davit with 6-pax Norsafe ANTI POLLUTION & SALVAGE C Dispersant Storage Capacity Dispersant Storage Capacity Dispersant Storage Capacity External Oil Recovery System
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (J4 Ahead) Economical Speed (Half Ahead) Slow Speed (Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer	Water Curtain Spray System           Consilium NSAC-1 Fixed Fire Fit           LIFE SAVING AND STANDBY RE           Fitted in Compliance with IMO S           NDA16 SWL 21kN Launching &           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           ANTI POLLUTION & SALVAGE C           Dispersant Storage Capacity           Dispersant Spray Boom 6Mtr           Emergency Anti Pollution Kit
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (J4 Ahead) Economical Speed (Half Ahead) Slow Speed (Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity Brake Holding Capacity	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 nt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer         400 tonnes @ 1st layer	Water Curtain Spray System Consilium NSAC-1 Fixed Fire Fit LIFE SAVING AND STANDBY RE Fitted in Compliance with IMO S NDA16 SWL 21kN Launching & NDA16 Davit with 6-pax Norsafe NDA16 Davit with 6-pax Norsafe ANTI POLLUTION & SALVAGE C Dispersant Storage Capacity Dispersant Storage Capacity Dispersant Storage Capacity External Oil Recovery System
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (Sl/4 Ahead) Economical Speed (Half Ahead) Slow Speed (Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity Brake Holding Capacity Towing Drum Capacity Max	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer         400 tonnes @ 1st layer         Wire diameter 76mm x 1500 m length	Water Curtain Spray System           Consilium NSAC-1 Fixed Fire Fit           LIFE SAVING AND STANDBY RE           Fitted in Compliance with IMO S           NDA16 SWL 21kN Launching &           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           ANTI POLLUTION & SALVAGE C           Dispersant Storage Capacity           Comparison Storage Capacity
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (J4 Ahead) Economical Speed (Half Ahead) Slow Speed (Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity Brake Holding Capacity Towing Drum Capacity Max Anchor Handling Drum Max	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer         400 tonnes @ 1st layer         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length	Water Curtain Spray System           Consilium NSAC-1 Fixed Fire Fit           LIFE SAVING AND STANDBY RE           Fitted in Compliance with IMO S           NDA16 SWL 21kN Launching &           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           ANTI POLLUTION & SALVAGE C           Dispersant Storage Capacity           Dispersant Storage Capacity           Dispersant Storage System           ACCOMMODATION & FACILITIE           Namirei Showa NSAS-W4004A
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (Sl/4 Ahead) Economical Speed (Half Ahead) Slow Speed (Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity Brake Holding Capacity Towing Drum Capacity Max Anchor Handling Drum Max Storage Reel w/spare wire	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer         400 tonnes @ 1st layer         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length	Water Curtain Spray System           Consilium NSAC-1 Fixed Fire Fit           LIFE SAVING AND STANDBY RE           Fitted in Compliance with IMO S           NDA16 SWL 21kN Launching &           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           ANTI POLLUTION & SALVAGE C           Dispersant Storage Capacity           Dispersant Storage Capacity           Dispersant Storage Capacity           Mispersant Storage Capacity           Dispersant Storage Capacity           Fitter Complexity           Numirei Showa NSAS-W4004A           16 Cabins : 6 Single Berth; 5 x 2
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (J/4 Ahead) Economical Speed (Half Ahead) Slow Speed (Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity Brake Holding Capacity Towing Drum Capacity Max Anchor Handling Drum Max Storage Reel w/spare wire Towing Pins Shark Jaws / Karm Fork	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer         400 tonnes @ 1st layer         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         1 x Karmoy Retractable SWL 200 tonnes         1 x Karmoy Retractable SWL 350 tonnes	Water Curtain Spray System           Consilium NSAC-1 Fixed Fire Fit           LIFE SAVING AND STANDBY RE           Fitted in Compliance with IMO S           NDA16 SWL 21kN Launching &           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           ANTI POLLUTION & SALVAGE C           Dispersant Storage Capacity           Dispersant Spray Boom 6Mtr           Emergency Anti Pollution Kit           External Oil Recovery System           ACCOMMODATION & FACILITIE           Namirei Showa NSAS-W4004A           16 Cabins : 6 Single Berth; 5 x 2           1 Hospital cw 2 x Single Berth ,
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (J/4 Ahead) Economical Speed (Half Ahead) Slow Speed (Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity Brake Holding Capacity Towing Drum Capacity Max Anchor Handling Drum Max Storage Reel w/spare wire Towing Pins	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer         400 tonnes @ 1st layer         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         1 x Karmoy Retractable SWL 200 tonnes	Water Curtain Spray System           Consilium NSAC-1 Fixed Fire Fit           LIFE SAVING AND STANDBY RE           Fitted in Compliance with IMO S           NDA16 SWL 21kN Launching &           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           ANTI POLLUTION & SALVAGE C           Dispersant Storage Capacity           Dispersant Spray Boom 6Mtr           Emergency Anti Pollution Kit           External Oil Recovery System           ACCOMMODATION & FACILITIE           Namirei Showa NSAS-W4004A           16 Cabins : 6 Single Berth; 5 x 2           1 Hospital cw 2 x Single Berth ,           Galley, Mess Room, Recreation
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (J/4 Ahead) Economical Speed (Half Ahead) Slow Speed (Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity Brake Holding Capacity Towing Drum Capacity Max Anchor Handling Drum Max Storage Reel w/spare wire Towing Pins Shark Jaws / Karm Fork	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer         400 tonnes @ 1st layer         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         1 x Karmoy Retractable SWL 200 tonnes         1 x Karmoy Retractable SWL 350 tonnes         Dia. 2m x Length 4.5m SWL 350 tonnes	Water Curtain Spray System           Consilium NSAC-1 Fixed Fire Fit           LIFE SAVING AND STANDBY RE           Fitted in Compliance with IMO S           NDA16 SWL 21kN Launching &           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           Objepersant Storage Capacity           Dispersant Storage Capacity           ACCOMMODATION & FACILITIE           Namirei Showa NSAS-W4004A           16 Cabins : 6 Single Berth; 5 x 2           1 Hospital cw 2 x Sing
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (3/4 Ahead) Economical Speed (Half Ahead) Slow Speed ( Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity Brake Holding Capacity Towing Drum Capacity Max Anchor Handling Drum Max Storage Reel w/spare wire Towing Pins Shark Jaws / Karm Fork Stern roller Manabe Zoki	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer         400 tonnes @ 1st layer         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         1 x Karmoy Retractable SWL 200 tonnes         1 x Karmoy Retractable SWL 350 tonnes         Dia. 2m x Length 4.5m SWL 350 tonnes	Water Curtain Spray System           Consilium NSAC-1 Fixed Fire Fit           LIFE SAVING AND STANDBY RE           Fitted in Compliance with IMO S           NDA16 SWL 21kN Launching &           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           Objepersant Storage Capacity           Dispersant Storage Capacity           ACCOMMODATION & FACILITIE           Namirei Showa NSAS-W4004A           16 Cabins : 6 Single Berth; 5 x 2           1 Hospital cw 2 x Sing
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (J4 Ahead) Economical Speed (Half Ahead) Slow Speed (Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity Brake Holding Capacity Towing Drum Capacity Max Anchor Handling Drum Max Storage Reel w/spare wire Towing Pins Shark Jaws / Karm Fork Stern roller Manabe Zoki DECK MACHINERY AND MOORING	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer         400 tonnes @ 1st layer         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         1 x Karmoy Retractable SWL 200 tonnes         1 x Karmoy Retractable SWL 350 tonnes         Dia. 2m x Length 4.5m SWL 350 tonnes         EQUIPMENT	Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fit         LIFE SAVING AND STANDBY RE         Fitted in Compliance with IMO S         NDA16 SWL 21kN Launching &         NDA16 Davit with 6-pax Norsafe         NDA16 Davit with 6-pax Norsafe         ANTI POLLUTION & SALVAGE C         Dispersant Storage Capacity         Namirei Showa NSAS-W4004A         16 Cabins : 6 Single Berth; 5 x 2         1 Hospital cw 2 x
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (J4 Ahead) Economical Speed (Half Ahead) Slow Speed (Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity Brake Holding Capacity Towing Drum Capacity Max Anchor Handling Drum Max Storage Reel w/spare wire Towing Pins Shark Jaws / Karm Fork Stern roller Manabe Zoki DECK MACHINERY AND MOORING Recovery / Tugger Winch	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer         400 tonnes @ 1st layer         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         Vire diameter 76mm x 1500 m length         1 x Karmoy Retractable SWL 200 tonnes         1 x Karmoy Retractable SWL 350 tonnes         Dia. 2m x Length 4.5m SWL 350 tonnes         EQUIPMENT         2 x SWL 20 te RECW3-20/610 Dia 26mm x 200m	Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fit         LIFE SAVING AND STANDBY RE         Fitted in Compliance with IMO S         NDA16 SWL 21kN Launching &         NDA16 Davit with 6-pax Norsafe         NDA16 Davit with 6-pax Norsafe         ANTI POLLUTION & SALVAGE C         Dispersant Storage Capacity         Namirei Showa NSAS-W4004A         16 Cabins : 6 Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth;         Galley, Mess
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (J4 Ahead) Economical Speed (Half Ahead) Slow Speed (Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity Brake Holding Capacity Towing Drum Capacity Max Anchor Handling Drum Max Storage Reel w/spare wire Towing Pins Shark Jaws / Karm Fork Stern roller Manabe Zoki DECK MACHINERY AND MOORING Recovery / Tugger Winch Capstan Deck Crane	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer         400 tonnes @ 1st layer         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         1 x Karmoy Retractable SWL 200 tonnes         1 x Karmoy Retractable SWL 350 tonnes         Dia. 2m x Length 4.5m SWL 350 tonnes         EQUIPMENT         2 x SWL 20 te RECW3-20/610 Dia 26mm x 200m         2 x SWL 10 te HCAS-10/450 Electro Capstan	Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fit         LIFE SAVING AND STANDBY RE         Fitted in Compliance with IMO S         NDA16 SWL 21kN Launching &         NDA16 Davit with 6-pax Norsafe         NDA16 Davit with 6-pax Norsafe         ANTI POLLUTION & SALVAGE C         Dispersant Storage Capacity         Dispersant Spray Boom 6Mtr         Emergency Anti Pollution Kit         External Oil Recovery System         ACCOMMODATION & FACILITIE         Namirei Showa NSAS-W4004A         16 Cabins : 6 Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 Hospital cw 2 x Single Berth; 5 x 2         1 K Laundry Room ; 1 x PPE Cha <td< td=""></td<>
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (J4 Ahead) Economical Speed (Half Ahead) Slow Speed (Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity Brake Holding Capacity Towing Drum Capacity Max Anchor Handling Drum Max Storage Reel w/spare wire Towing Pins Shark Jaws / Karm Fork Stern roller Manabe Zoki DECK MACHINERY AND MOORING Recovery / Tugger Winch Capstan	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer         400 tonnes @ 1st layer         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         1 x Karmoy Retractable SWL 200 tonnes         1 x Karmoy Retractable SWL 350 tonnes         Dia. 2m x Length 4.5m SWL 350 tonnes         EQUIPMENT         2 x SWL 20 te RECW3-20/610 Dia 26mm x 200m         2 x SWL 10 te HCAS-10/450 Electro Capstan         1 x SWL 2t @14m Hyd Telescopic TTS GPT 80-2-14	Water Curtain Spray System           Consilium NSAC-1 Fixed Fire Fit           LIFE SAVING AND STANDBY RE           Fitted in Compliance with IMO S           NDA16 SWL 21kN Launching &           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           ANTI POLLUTION & SALVAGE C           Dispersant Storage Capacity           Namirei Showa NSAS-W4004A           16 Cabins : 6 Single Berth, 5 x 2           1 Hospital cw 2 x Single Berth,           Galley, Mess Room,
PERFORMANCE & CONSUMPTION Maximum Speed @design draft Service Speed (Full Ahead) Service Speed (J4 Ahead) Economical Speed (Half Ahead) Slow Speed (Slow Ahead) Outport Standby Operations Anchor in Port ANCHOR HANDLING TOWING EQU Bollard Pull Approximately Anchor Handling Towing Winch Line Pull Capacity Brake Holding Capacity Towing Drum Capacity Max Anchor Handling Drum Max Storage Reel w/spare wire Towing Pins Shark Jaws / Karm Fork Stern roller Manabe Zoki DECK MACHINERY AND MOORING Recovery / Tugger Winch Capstan Deck Crane	14.5 Kts @ 46 mt/day (@100% MCR)         13 Kts @ 38 mt/day (@85% MCR)         11 Kts @ 31mt/day (@70% MCR)         9.0 Kts @23 mt/day (@57% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 kts @21 mt /day (@52% MCR)         6.0 mt / day         1.5mt / day         IPMENT         156 tonnes         Double drum waterfall Brattvaag SL300/ BSL300W         300 tonnes @ 1st layer         400 tonnes @ 1st layer         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         Wire diameter 76mm x 1500 m length         1 x Karmoy Retractable SWL 200 tonnes         1 x Karmoy Retractable SWL 350 tonnes         Dia. 2m x Length 4.5m SWL 350 tonnes         EQUIPMENT         2 x SWL 20 te RECW3-20/610 Dia 26mm x 200m         2 x SWL 10 te HCAS-10/450 Electro Capstan         1 x SWL 2t @14m Hyd Telescopic TTS GPT 80-2-14         1 x SWL 10te F3236-W210 double	Water Curtain Spray System           Consilium NSAC-1 Fixed Fire Fit           LIFE SAVING AND STANDBY RE           Fitted in Compliance with IMO S           NDA16 SWL 21kN Launching &           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           NDA16 Davit with 6-pax Norsafe           ANTI POLLUTION & SALVAGE C           Dispersant Storage Capacity           Dispersant Storage Capacity           Dispersant Spray Boom 6Mtr           Emergency Anti Pollution Kit           External Oil Recovery System           ACCOMMODATION & FACILITIE           Namirei Showa NSAS-W4004A           16 Cabins : 6 Single Berth, 5 x 2           1 Hospital cw 2 x Single Berth, Galley, Mess Room, Recreation           Dry Provision Store, Cold Room           1 x Laundry Room ; 1 x PPE Cha           ENVIRONMENTAL IMO MARPO           Taiko Kikai SBT40 SCT-200P So           15-ppm Taiko Kikai USH-05 Oily

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S-Band Radar 10cm ARPA28 X-Band Radar 3cm ARPA28	1 x Furuno FAR 2117S
	1 x Furuno FAR 2137S
Auto Pilot cw rudder Indicator	Tokimec PR-6000
Magnetic Compass	2 x Tokimec SH-165A1
Gyro Compass Echo Sounder	Tokimec TG-8000 /8500 Furuno FE-700 with repeater FE720
AIS	· · · · · · · · · · · · · · · · · · ·
Navtex	Furuno FA-150 Furuno NX-700 with printer NX-700A
Weather Fax	Furuno FAX-410
Weather Fax Wind Vane Anemometer	Nippon Electric N-52+8205
Doppler Speed Log DGPS	Furuno DS-80 FURUNO MD-550
GPS	
	2 x FURUNO GP-150 TRANSAS Navi-Sailor 4000
ECDIS (Multi function display)	I RANSAS Navi-Sallor 4000
BRIDGE COMMUNICATION & MONI	TORING EQUIPMENT
IMMARSAT Comm C	Furuno FELCOM 15
Marine SSB Radio system	Furuno FS2570C / HS2001
VHF DSC	2 x Furuno FM8800S
Portable VHF (GMDSS)	3 set ENTEL HT649
EPIRB 406 / 121.5 mhz /Sart	THRANE SE406-11 / Ocean Signal S100
Potable VHF(fire fighting)	2 ENTEL HT944
Portable VHF Radio	5 x Motorola GP328
Towing & Anchoring Handling	Fukushima Control Panel
Loud Hailer TalkBack System	Nippon Hakuyo OHE-3167A
CCTV surveillance system	Anchor Handling & Bridgewatch
Auto Telephone	Nippon Electronic OAE-7116
BNWAS System	Tokyo Keiki ADO-001
V-SAT Ku Band Intellian V85 with 1	024/ 512 MIR 128/64 CIR
FIRE FIGHTING CAPABILITY - ABS I	FiFi Class 1
Main Ship Fire Pump	1 x 75m3/h @90m head
	1 x 75m3/h @90m head 1 x 40m3/h @50m head
Main Ship Fire Pump	
Main Ship Fire Pump Emergency Fire Pump	1 x 40m3/h @50m head
Main Ship Fire Pump Emergency Fire Pump Dual Foam/Water Monitor	1 x 40m3/h @50m head 2 x 600m3/h @120m 1 x 1200m3/h @140M head
Main Ship Fire Pump Emergency Fire Pump Dual Foam/Water Monitor Ext Fire Pump Jason SRG256K01	1 x 40m3/h @50m head 2 x 600m3/h @120m 1 x 1200m3/h @140M head
Main Ship Fire Pump Emergency Fire Pump Dual Foam/Water Monitor Ext Fire Pump Jason SRG256K01 Aker Kvarner JASON Eureka Fire Fig	1 x 40m3/h @50m head 2 x 600m3/h @120m 1 x 1200m3/h @140M head ghting 1/2 system
Main Ship Fire Pump Emergency Fire Pump Dual Foam/Water Monitor Ext Fire Pump Jason SRG256K01 Aker Kvarner JASON Eureka Fire Fig Foam (Fire fighting) Tank	1 x 40m3/h @50m head 2 x 600m3/h @120m 1 x 1200m3/h @140M head ghting 1/2 system 13 m3 Accommodation & main deck
Main Ship Fire Pump Emergency Fire Pump Dual Foam/Water Monitor Ext Fire Pump Jason SRG256K01 Aker Kvarner JASON Eureka Fire Fig Foam (Fire fighting) Tank Water Curtain Spray System Consilium NSAC-1 Fixed Fire Fighti	1 x 40m3/h @50m head 2 x 600m3/h @120m 1 x 1200m3/h @140M head ghting 1/2 system 13 m3 Accommodation & main deck ng CO2 system
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU	1 x 40m3/h @50m head 2 x 600m3/h @120m 1 x 1200m3/h @140M head ghting 1/2 system 13 m3 Accommodation & main deck ng CO2 system E CAPABIITY
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOLU	1 x 40m3/h @50m head 2 x 600m3/h @120m 1 x 1200m3/h @140M head ghting 1/2 system 13 m3 Accommodation & main deck ng CO2 system E CAPABIITY AS (1974) Approved
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Recompliance	1 x 40m3/h @50m head 2 x 600m3/h @120m 1 x 1200m3/h @140M head ghting 1/2 system 13 m3 Accommodation & main deck ng CO2 system E CAPABIITY AS (1974) Approved overy System for MOB/FRC
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mit	1 x 40m3/h @50m head 2 x 600m3/h @120m 1 x 1200m3/h @140M head ghting 1/2 system 13 m3 Accommodation & main deck ng CO2 system E CAPABIITY AS (1974) Approved overy System for MOB/FRC K II Rigid Fast Rescue Boat
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Recompliance	1 x 40m3/h @50m head 2 x 600m3/h @120m 1 x 1200m3/h @140M head ghting 1/2 system 13 m3 Accommodation & main deck ng CO2 system E CAPABIITY AS (1974) Approved overy System for MOB/FRC K II Rigid Fast Rescue Boat
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mit	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         IE CAPABIITY         AS (1974) Approved         overy System for MOB/FRC <ii boat<="" fast="" rescue="" rigid="" td=""> <i boat<="" rigid="" td="" work=""></i></ii>
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe MI	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         IE CAPABIITY         AS (1974) Approved         overy System for MOB/FRC <ii boat<="" fast="" rescue="" rigid="" td=""> <i boat<="" rigid="" td="" work=""></i></ii>
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe MI         NDA16 Davit with 6-pax Norsafe MI         ANTI POLLUTION & SALVAGE CAPA	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng C02 system         IE CAPABIITY         AS (1974) Approved         overy System for MOB/FRC         KI Rigid Fast Rescue Boat         KI Rigid Work Boat
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Min         NDA16 Davit with 6-pax Norsafe Min         ANTI POLLUTION & SALVAGE CAPA         Dispersant Storage Capacity         Dispersant Spray Boom 6Mtr	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         IE CAPABIITY         AS (1974) Approved         overy System for MOB/FRC         KI Rigid Fast Rescue Boat         KI Rigid Work Boat         BILITY         13 m3
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe MI         NDA16 Davit with 6-pax Norsafe MI         ANTI POLLUTION & SALVAGE CAPA         Dispersant Storage Capacity	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         IE CAPABIITY         AS (1974) Approved         overy System for MOB/FRC         KI Rigid Fast Rescue Boat         KI Rigid Work Boat         BILITY         13 m3         2 Set
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         NDA16 Davit with 6-pax Norsafe Mi         NDA16 Davit with 6-pax Norsafe Mi         DISpersant Storage Capacity         Dispersant Spray Boom 6Mtr         Emergency Anti Pollution Kit	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         IE CAPABIITY         AS (1974) Approved         overy System for MOB/FRC         KI Rigid Fast Rescue Boat         KI Rigid Work Boat         BILITY         13 m3         2 Set         1 set
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         NDA16 Davit with 6-pax Norsafe Mi         NDA16 Davit with 6-pax Norsafe Mi         DISpersant Storage Capacity         Dispersant Spray Boom 6Mtr         Emergency Anti Pollution Kit	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         IE CAPABIITY         AS (1974) Approved         overy System for MOB/FRC         KI Rigid Fast Rescue Boat         KI Rigid Work Boat         BILITY         13 m3         2 Set         1 set
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOLJ         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         NDA16 Davit with 6-pax Norsafe Mi         ANTI POLLUTION & SALVAGE CAPA         Dispersant Storage Capacity         Dispersant Spray Boom 6Mtr         Emergency Anti Pollution Kit         External Oil Recovery System	1 x 40m3/h @50m head 2 x 600m3/h @120m 1 x 1200m3/h @140M head ghting 1/2 system 13 m3 Accommodation & main deck ng CO2 system <b>FE CAPABIITY</b> AS (1974) Approved overy System for MOB/FRC KII Rigid Fast Rescue Boat KI Rigid Work Boat <b>IBILITY</b> 13 m3 2 Set 1 set Optional IMO TIER 1 Capability
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOLJ         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         NDA16 Davit with 6-pax Norsafe Mi         NDA16 Davit with 6-pax Norsafe Mi         Dispersant Storage Capacity         Dispersant Spray Boom 6Mtr         Emergency Anti Pollution Kit         External Oil Recovery System         ACCOMMODATION & FACILITIES         Namirei Showa NSAS-W4004A Airco	1 x 40m3/h @50m head 2 x 600m3/h @120m 1 x 1200m3/h @140M head ghting 1/2 system 13 m3 Accommodation & main deck ng CO2 system <b>FE CAPABIITY</b> AS (1974) Approved overy System for MOB/FRC KII Rigid Fast Rescue Boat KI Rigid Work Boat <b>IBILITY</b> 13 m3 2 Set 1 set Optional IMO TIER 1 Capability
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOLJ         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         NDA16 Davit with 6-pax Norsafe Mi         NDA16 Davit with 6-pax Norsafe Mi         Dispersant Storage Capacity         Dispersant Spray Boom 6Mtr         Emergency Anti Pollution Kit         External Oil Recovery System         ACCOMMODATION & FACILITIES         Namirei Showa NSAS-W4004A Airco	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         PE CAPABILTY         AS (1974) Approved         overy System for MOB/FRC         K II Rigid Fast Rescue Boat         K I Rigid Work Boat         BILITY         13 m3         2 Set         1 set         Optional IMO TIER 1 Capability         onditioning System for 36 Persons         th; 5 x 4 berth c/w Ensuite Bathroom
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOLJ         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         NDA16 Davit with 6-pax Norsafe Mi         Dispersant Storage Capacity         Dispersant Storage Capacity         Dispersant Spray Boom 6Mtr         Emergency Anti Pollution Kit         External Oil Recovery System         ACCOMMODATION & FACILITIES         Namirei Showa NSAS-W4004A Airco         16 Cabins : 6 Single Berth; 5 x 2 Bert	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         PE CAPABILTY         AS (1974) Approved         overy System for MOB/FRC         K II Rigid Fast Rescue Boat         K I Rigid Work Boat         BILITY         13 m3         2 Set         1 set         Optional IMO TIER 1 Capability         onditioning System for 36 Persons         th; 5 x 4 berth c/w Ensuite Bathroom         o Office, Instrument Room
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOLJ         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         NDA16 Davit with 6-pax Norsafe Mi         DIspersant Storage Capacity         Dispersant Storage Capacity         Dispersant Storage Capacity         Dispersant Spray Boom 6Mtr         Emergency Anti Pollution Kit         External Oil Recovery System         ACCOMMODATION & FACILITIES         Namirei Showa NSAS-W4004A Airc         16 Cabins : 6 Single Berth; 5 x 2 Bert         1 Hospital cw 2 x Single Berth , Shig	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         PE CAPABILTY         AS (1974) Approved         overy System for MOB/FRC               K1 Rigid Fast Rescue Boat            K1 Rigid Work Boat         BILITY         13 m3         2 Set         1 set         Optional IMO TIER 1 Capability         onditioning System for 36 Persons         th; 5 x 4 berth c/w Ensuite Bathroom         o Office, Instrument Room         m, Gymnasium Room
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOLJ         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         NDA16 Davit with 6-pax Norsafe Mi         Dispersant Storage Capacity         Dispersant Storage Capacity         Dispersant Spray Boom 6Mtr         Emergency Anti Pollution Kit         External Oil Recovery System         ACCOMMODATION & FACILITIES         Namirei Showa NSAS-W4004A Airc         16 Cabins : 6 Single Berth; 5 x 2 Bert         1 Hospital cw 2 x Single Berth , Ship         Galley, Mess Room, Recreation Room	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         PE CAPABILTY         AS (1974) Approved         overy System for MOB/FRC               K1 Rigid Fast Rescue Boat            K1 Rigid Work Boat         BILITY         13 m3         2 Set         1 set         Optional IMO TIER 1 Capability         onditioning System for 36 Persons         th; 5 x 4 berth c/w Ensuite Bathroom         o Office, Instrument Room         m, Gymnasium Room         reezer Room
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         Namirei Showa NSAS-W4004A Airc         16 Cabins : 6 Single Berth; 5 x 2 Bert         1 Hospital cw 2 x Single Berth; 5	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         PE CAPABIITY         AS (1974) Approved         overy System for MOB/FRC         KII Rigid Fast Rescue Boat         KI Rigid Work Boat         BILITY         13 m3         2 Set         1 set         Optional IMO TIER 1 Capability         onditioning System for 36 Persons         th; 5 x 4 berth c/w Ensuite Bathroom         op Office, Instrument Room         m, Gymnasium Room         reezer Room         Out locker Room
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         Namirei Showa NSAS-W4004A Airc         16 Cabins : 6 Single Berth; 5 x 2 Bert         1 Hospital cw 2 x Single Berth, Shig         Galley, Mess Room, Recreation Roo         Dry Provision Store, Cold Room & F         1 x Laundry Room ; 1 x PPE Cha	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         PE CAPABIITY         AS (1974) Approved         overy System for MOB/FRC         KI Rigid Fast Rescue Boat         KI Rigid Work Boat         ABLITY         13 m3         2 Set         1 set         Optional IMO TIER 1 Capability         onditioning System for 36 Persons         th; 5 x 4 berth c/w Ensuite Bathroom         of Office, Instrument Room         m, Gymnasium Room         reezer Room         Out locker Room         MPLLANCE
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         Namirei Showa NSAS-W4004A Airc         16 Cabins : 6 Single Berth; 5 x 2 Bert         1 Hospital cw 2 x Single Berth, Shig         Galley, Mess Room, Recreation Roo         Dry Provision Store, Cold Room & F         1 x Laundry Room ; 1 x PPE Cha	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         PE CAPABIITY         AS (1974) Approved         overy System for MOB/FRC         KII Rigid Fast Rescue Boat         KI Rigid Work Boat         ABLITY         13 m3         2 Set         1 set         Optional IMO TIER 1 Capability         onditioning System for 36 Persons         th; 5 x 4 berth c/w Ensuite Bathroom         m, Gymnasium Room         reezer Room         Out locker Room         MPLIANCE         ge Treatment Plant
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         Separat Storage Capacity         Dispersant Storage Capacity         Dispersant Spray Boom 6Mtr         Emergency Anti Pollution Kit         External Oil Recovery System         ACCOMMODATION & FACILITIES         Namirei Showa NSAS-W4004A Airc         16 Cabins : 6 Single Berth, Shig         Galley, Mes	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         PE CAPABILTY         AS (1974) Approved         overy System for MOB/FRC         KII Rigid Fast Rescue Boat         KI Rigid Work Boat         ABLITY         13 m3         2 Set         1 set         Optional IMO TIER 1 Capability         onditioning System for 36 Persons         th; 5 x 4 berth c/w Ensuite Bathroom         o Office, Instrument Room         m, Gymnasium Room         reezer Room         Out locker Room         MPLIANCE         ge Treatment Plant         ter Separator of 0.5m3/hr
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         Sepersant Storage Capacity         Dispersant Spray Boom 6Mtr         Emergency Anti Pollution Kit         External Oil Recovery System         ACCOMMODATION & FACILITIES         Namirei Showa NSAS-W4004A Airc         16 Cabins : 6 Single Berth; Shig         Galley, Mess Room, Recreation Roo         Dry Provision Store, Cold Room & F         1 x Laundry Room ; 1 x PPE Change         ENVIRONMENTAL IMO MARPOL CO         Taiko Ki	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         PE CAPABILTY         AS (1974) Approved         overy System for MOB/FRC         KII Rigid Fast Rescue Boat         KI Rigid Work Boat         ABLITY         13 m3         2 Set         1 set         Optional IMO TIER 1 Capability         onditioning System for 36 Persons         th; 5 x 4 berth c/w Ensuite Bathroom         o Office, Instrument Room         m, Gymnasium Room         reezer Room         Out locker Room         MPLIANCE         ge Treatment Plant         ater Separator of 0.5m3/hr         3/day
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         Segresant Storage Capacity         Dispersant Spray Boom 6Mtr         Emergency Anti Pollution Kit         External Oil Recovery System         ACCOMMODATION & FACILITIES         Namirei Showa NSAS-W4004A Airc         16 Cabins : 6 Single Berth; Shig         Galley, Mess Room, Recreation Roo         Dry	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         PE CAPABILTY         AS (1974) Approved         overy System for MOB/FRC         KII Rigid Fast Rescue Boat         KI Rigid Work Boat         BILITY         13 m3         2 Set         1 set         Optional IMO TIER 1 Capability         onditioning System for 36 Persons         th; 5 x 4 berth c/w Ensuite Bathroom         o Office, Instrument Room         m, Gymnasium Room         reezer Room         Out locker Room         OMPLIANCE         ge Treatment Plant         ater Separator of 0.5m3/hr         3/day         elf Sludge Discharge
Main Ship Fire Pump         Emergency Fire Pump         Dual Foam/Water Monitor         Ext Fire Pump Jason SRG256K01         Aker Kvarner JASON Eureka Fire Fig         Foam (Fire fighting) Tank         Water Curtain Spray System         Consilium NSAC-1 Fixed Fire Fighti         LIFE SAVING AND STANDBY RESCU         Fitted in Compliance with IMO SOL/         NDA16 SWL 21kN Launching & Rec         NDA16 Davit with 6-pax Norsafe Mi         Sepersant Storage Capacity         Dispersant Spray Boom 6Mtr         Emergency Anti Pollution Kit         External Oil Recovery System         ACCOMMODATION & FACILITIES         Namirei Showa NSAS-W4004A Airc         16 Cabins : 6 Single Berth; Shig         Galley, Mess Room, Recreation Roo         Dry Provision Store, Cold Room & F         1 x Laundry Room ; 1 x PPE Change         ENVIRONMENTAL IMO MARPOL CO         Taiko Ki	1 x 40m3/h @50m head         2 x 600m3/h @120m         1 x 1200m3/h @140M head         ghting 1/2 system         13 m3         Accommodation & main deck         ng CO2 system         PE CAPABILTY         AS (1974) Approved         overy System for MOB/FRC         KII Rigid Fast Rescue Boat         KI Rigid Work Boat         BILITY         13 m3         2 Set         1 set         Optional IMO TIER 1 Capability         onditioning System for 36 Persons         th; 5 x 4 berth c/w Ensuite Bathroom         o Office, Instrument Room         m, Gymnasium Room         reezer Room         Out locker Room         OMPLIANCE         ge Treatment Plant         tter Separator of 0.5m3/hr         3/day         elf Sludge Discharge         System



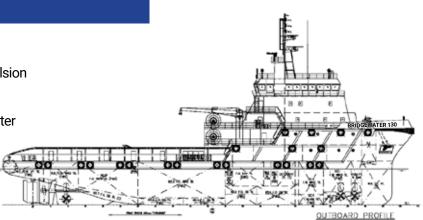
### BRIDGEWATER 130 10,800BHP 70M AHTS DP2 FIFI 1

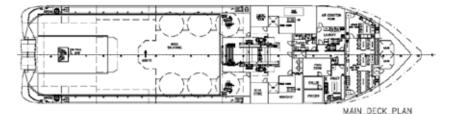


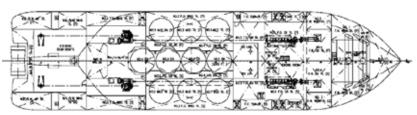
10,800BHP 130TBP DP2 FIFI 1 Anchor Handling Tug Supply Standby Escort Rescue Tug

#### Features

- ▶ 10,800 BHP ( 8,000KW ) Controllable Pitch Propulsion
- ▶ 120MT to 135MT Bollard Pull
- ▶ 2 x 800kw Bow Thruster & 1 x 800kw Stern Thruster
- ► Fuel Capacity: 1200 MT // Clear Deck : 500 M2
- Deadweight Capacity : 2180MT
- Dynamic Positioning DP-2 System
- ► Fire-Fighting FiFi Class 1
- CCTV Ship Security & Operations
- V-SAT Ku Band Intellian V85
- Anti Pollution Oil Spill Response
- Environmental IMO Compliance
- Accommodation Total 40 Berths
- 27 Cabins c/w Ensuite Bathroom
- ▶ 10 Single & 15 Double Cabin
- 1 Hospital Cabin
- 1 Ship Office Cabin
- Galley with Messroom for 30 persons
- Recreation & Laundry Room



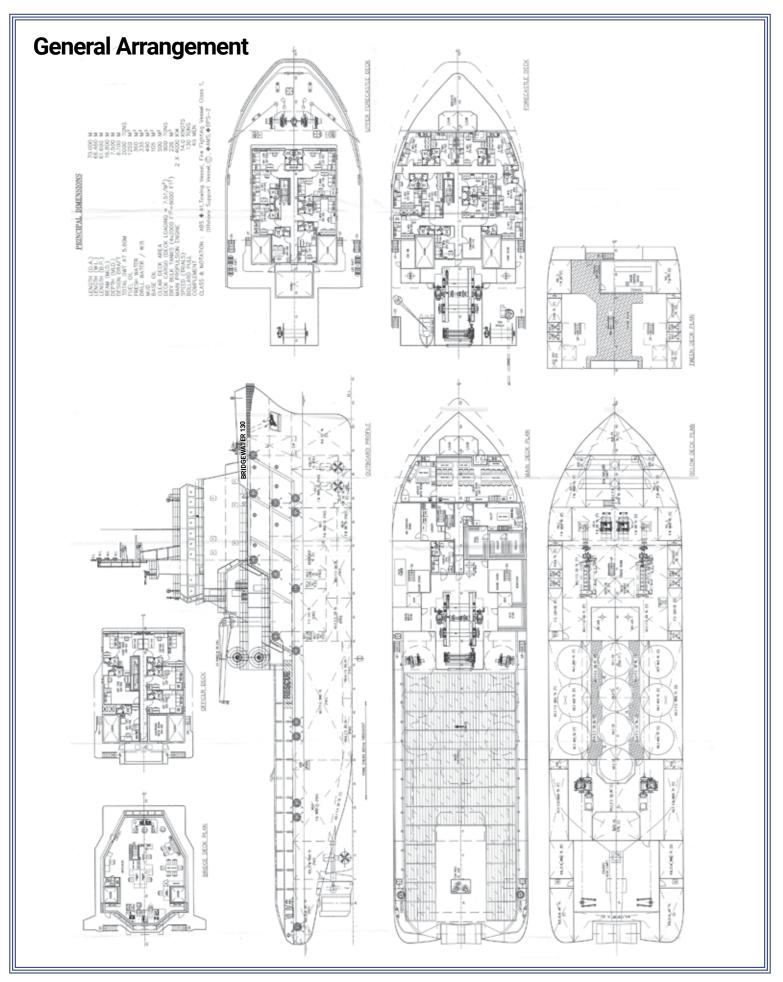




BELOW DECK PLAN



### BRIDGEWATER 130 10,800BHP 70M AHTS DP2 FIFI 1





MAIN PARTICULARS			
Vessel Name	BRIDGEWATER 130		
IMO No.	9555395		
Year Built	2009-08		
Place Built	Fujian Southeast Shipyard-China		
Port - Flag Registry	SINGAPORE		
Callsign	9V5660		
Official No.	401182		
GRT / NRT	2708 / 812		
Class Notation A B S	★A1 Anchor Handling Towing Vessel FiFi Class		
	1 Offshore Support Vessel ( E ) 🕸 AMS 🕸 DPS-2		

Unrestricted Navigation

Law with 0.4	70.00 M	
Length - OA	70.00 M	
Length - BP	64.00 M	
Breadth - Moulded	16.80 M	
Depth - Moulded	7.50 M	
Draft - Moulded	6.10 M	
Deadweight Max Capacity	2180 tonnes	
Deck cargo capacity	700 tonnes	
Main Cargo Deck ( L x B )	33.5M X 13.5M	
Deck Strength	7.5 Tonnes /M2	
Deck Area	500 M2	

BULK CAPACITIES		TRANSFER RATE
Fuel Oil	1221 m3	1 x 150m3/h @75m head
Fresh Water	393.5 m3	1 x 150m3/h @75m head
Ballast/Drill Water	1339.7 m3	1 x 150m3/h @75m head
Liquid Mud / Brine	490 m3	2 x 75m3/h @75m head
Base Oil	104 m3	1 x 61m3/h @90m head
Dry bulk mud / cement	226 m3	2 x 18m3/h @80psi

N/ A	CHI	MED	v
MA	CHI	NER	Y

2 x 4000kw@750rpm Wartsila 8L32 Diesel Engine
CPP Propeller in Kort Nozzle Total 10800bhp
2 x 600kw(800bhp) Wartsila CT175H-D 9.5te thrust
1 x 600kw(800bhp) Wartsila CT175H-D 9.5te thrust
2 x 350kw Leroy 415V/3P/50Hz Caterpillar C18
2 x 1600kw 415V/3P/50Hz Marelli Motori
1 x 65kw/415V/3P/50Hz Caterpillar C4.4
2 x Airman SWS125/18m3/h x 80 PSI
2 x Sperre PL2 /77 3.3Mpa

PERFORMANCE & CONSUMPTION

14 Kts @ 35 mt/day (@100% MCR)	
12 Kts @ 23 mt/day	
10 Kts @ 18 mt/day	
23 mt / day	
15 mt / day	
9 mt / day	
0.9 mt / day	
	12 Kts @ 23 mt/day 10 Kts @ 18 mt/day 23 mt / day 15 mt / day 9 mt / day

ANCHOR HANDLING TOWING EQUIPMENT		
Bollard Pull	125 tonnes 135 tonnes approximately	
Anchor Handling Towing Winch	Double drum waterfall Brattvaag SL300/ BSL300W	
Line Pull Capacity	300 tonnes @ 1st layer	
Brake Holding Capacity	450 tonnes @ 1st layer	
Towing Drum Capacity	Wire diameter 76mm x 2000 m length	
Anchor Handling Drum	Wire diameter 76mm x 2000 m length	
Storage Reel w/spare wire	Wire diameter 76mm x 2000 m length	
Storage Reel w/spare wire	Pendant wires & 300m work wire dia 76mm	
Rig Chain Gypsy	1 x 76mm 1 x 90mm	
Chain Locker	2 x 70 m3	
Towing Pins	1 x Karmoy Retractable SWL 500 tonnes	
Shark Jaws / Karm Fork	1 x Karmoy Retractable SWL 500 tonnes	
Stern roller	Dia 2.2m x Length 5m SWL 500 tonnes	

DECK MACHINERY AND MOORING EQUIPMENT	
Tugger Winch	2 x SWL 10 tonnes Brattvaag LAKMX41015
Capstan	2 x SWL 10 tonnes Rolls Royce LC-XX41015
Deck Crane	1 x SWL 5ton @ 15m Telescopic Provision Crane
Anchor Windlass	1 x SWL 14 tonnes Brattvaag double
	gypsy windlass with 2 warping drum
Anchor Chain	2 x dia 46 mm x 440 m studlink anchor chain
Anchor	2 x AC14 HHP 2046Kg anchor

### BRIDGEWATER 130 10,800BHP 70M AHTS DP2 FiFi 1

OWNER / MANAGER	BRIDGEWATER OFFSHORE PTE LTD
	KIM HENG MARINE & OILFIELD PTE LTD
	enquiry@kimheng.com.sg www.kimheng.com.sg
Telephone / Fax	(65) 6777 9990 / (65) 6778 9990
BRIDGE NAVIGATION EQUIPMENT	
S-Band Radar 10cm ARPA28	1 x Furuno FAR 2117S
X-Band Radar 3cm ARPA28	1 x Furuno FAR 2137S
Auto Pilot	Raytheon Anschutz Pilot Star D NP-2015
Magnetic Compass	Saura ME-150
GPS Echo Sounder	Furuno GP-150 Furuno FE-700 with printer
AIS	Furuno FA-150
Navtex	Furuno NX-700
Weather Fax	Furuno FAX-408
Anemometer	2 x Young Wind Tracker
Doppler Speed Log	Furuno DS-80
DYNAMIC POSITIONING SYSTEM	ABS & DPS-2
DP Control System	Converteam DP-21
Gyro Compass	3 x Raytheon Anschutz STD22
DGPS Reference System	2 x DGPS Veripos LD3-G1 Cyscan MK2
VRU	1 x TSS DMS RP30
Wind Sensor	3 x Gill Wind Observer 2
BRIDGE COMMUNICATION & MONI	
IMMARSAT Comm C	Furuno FELCOM 15
Marine SSB Radio system	Furuno FS2570C / HS2001
VHF DSC	2 x Furuno FM8800S
Portable VHF (GMDSS)+battery	3 set McMurdo SART S4
EPIRB 406 / 121.5 mhz	McMurdo E3
Satellite Phone	Sailor Thrane & Thrane
Portable VHF Radio	2 x ICOM GM-1500
Towing & Anchoring Handling Bulk Handling System	Rolls Royce AHT Control panel Unislip Bulk Handling System
CCTV surveillance system	Anchor Handling & Bridgewatch
PA System	Vingtor 250W
BNWAS System	Fitted
V-SAT Ku Band Intellian V85 with 1	024/ 512 MIR 128/64 CIR
FIRE FIGHTING CAPABILITY - ABS	FIFI CLASS 1
Main Ship Fire Pump	1 x 75m3/h @90m head
Emergency Fire Pump	1 x 35m3/h @50m head
Water / Foam Monitor	2 x 1200m3/h @160m Throw
External FiFi Pump	2 x 1500m3/h @14bar
FFS/Scanpump SPP250 x 350 HD H	
FOAM Capacity	21.5m3
Water Curtain Spray System	Accommodation & main deck
Fixed Fire Fighting CO2 system for	
LIFE SAVING AND STANDBY RESCUE CAPABIITY	
Fitted in Compliance with IMO SOL	
SWL 21kN Launching & Recovery S	
Fast Rescue Craft FRC-6pax	Zodiac Inflatable Rescue Craft
RESCUE ZONE	2 Zones Scrambling Net fitted
ANTI POLLUTION CAPABILITY	
Dispersant Storage Capacity	<u>21.5m3</u>
Dispersant Spray Boom 6Mtr	2 Set
Emergency Anti Pollution Kit	1 set
External Oil Recovery System	Optional IMO TIER 1 Capability
ACCOMMODATION & FACILITIES	
Accommodation fitted with Aircond	ditioning System
Accommodation fitted with Aircond	
25 Cabins -Total 40 Persons	10 x Single Berth 15 x Double Berth
25 Cabins -Total 40 Persons 1 x Hospital Cabin Single Berth	10 x Single Berth 15 x Double Berth Ship Office, DP2 Instrument Cabin
25 Cabins -Total 40 Persons 1 x Hospital Cabin Single Berth Galley, Mess Room, Recreation Roo	10 x Single Berth 15 x Double Berth Ship Office, DP2 Instrument Cabin om, Gymnasium Room
25 Cabins - Total 40 Persons 1 x Hospital Cabin Single Berth Galley, Mess Room, Recreation Roo 2 x JCU IVY Refrigeration fitted Co	10 x Single Berth 15 x Double Berth Ship Office, DP2 Instrument Cabin om, Gymnasium Room Id Room , 1 x dry provision store
25 Cabins -Total 40 Persons 1 x Hospital Cabin Single Berth Galley, Mess Room, Recreation Roo 2 x JCU IVY Refrigeration fitted Co Laundry Room and Workwear PPE	10 x Single Berth 15 x Double Berth Ship Office, DP2 Instrument Cabin om, Gymnasium Room Id Room , 1 x dry provision store Changeout Zone
25 Cabins -Total 40 Persons 1 x Hospital Cabin Single Berth Galley, Mess Room, Recreation Roo 2 x JCU IVY Refrigeration fitted Co Laundry Room and Workwear PPE ENVIRONMENTAL IMO MARPOL CO	10 x Single Berth 15 x Double Berth Ship Office, DP2 Instrument Cabin om, Gymnasium Room Id Room , 1 x dry provision store Changeout Zone OMPLIANCE
25 Cabins -Total 40 Persons 1 x Hospital Cabin Single Berth Galley, Mess Room, Recreation Roo 2 x JCU IVY Refrigeration fitted Co Laundry Room and Workwear PPE ENVIRONMENTAL IMO MARPOL C WCB-50 pax holding capacity Sever	10 x Single Berth 15 x Double Berth Ship Office, DP2 Instrument Cabin om, Gymnasium Room Id Room , 1 x dry provision store Changeout Zone OMPLIANCE age Treatment Plant
25 Cabins -Total 40 Persons 1 x Hospital Cabin Single Berth Galley, Mess Room, Recreation Roo 2 x JCU IVY Refrigeration fitted Co Laundry Room and Workwear PPE ENVIRONMENTAL IMO MARPOL C WCB-50 pax holding capacity Sewe 15-ppm Taiko Kikai Oily Water Sep	10 x Single Berth 15 x Double Berth         Ship Office, DP2 Instrument Cabin         om, Gymnasium Room         Id Room , 1 x dry provision store         Changeout Zone         OMPLIANCE         age Treatment Plant         arator of 1m3/hr
25 Cabins -Total 40 Persons 1 x Hospital Cabin Single Berth Galley, Mess Room, Recreation Roo 2 x JCU IVY Refrigeration fitted Co Laundry Room and Workwear PPE ENVIRONMENTAL IMO MARPOL C WCB-50 pax holding capacity Sewa 15-ppm Taiko Kikai Oily Water Sep Water Maker Sea Recovery Coral S	10 x Single Berth 15 x Double Berth         Ship Office, DP2 Instrument Cabin         om, Gymnasium Room         Id Room , 1 x dry provision store         Changeout Zone         OMPLIANCE         age Treatment Plant         arator of 1m3/hr         ea 2800 Rev Osmosis 10 m3/day
25 Cabins -Total 40 Persons 1 x Hospital Cabin Single Berth Galley, Mess Room, Recreation Roo 2 x JCU IVY Refrigeration fitted Co Laundry Room and Workwear PPE ENVIRONMENTAL IMO MARPOL C WCB-50 pax holding capacity Sewe 15-ppm Taiko Kikai Oily Water Sep	10 x Single Berth 15 x Double Berth         Ship Office, DP2 Instrument Cabin         om, Gymnasium Room         Id Room , 1 x dry provision store         Changeout Zone         OMPLIANCE         age Treatment Plant         arator of 1m3/hr         ea 2800 Rev Osmosis 10 m3/day         rs Hydrophore tank unit

Bulk Cargo load/discharge station spill containment



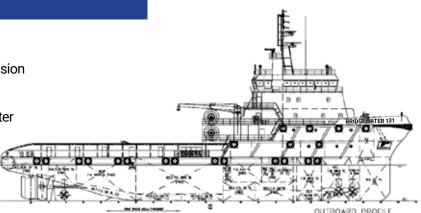
### BRIDGEWATER 131 10,800BHP 70M AHTS DP2 FIFI 1

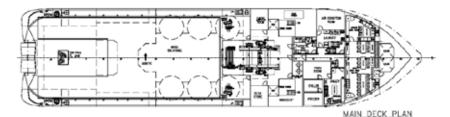


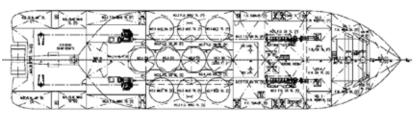
10,800BHP 130TBP DP2 FIFI 1 Anchor Handling Tug Supply Standby Escort Rescue Tug

#### Features

- ▶ 10,800 BHP ( 8,000KW ) Controllable Pitch Propulsion
- ▶ 120MT to 135MT Bollard Pull
- ▶ 2 x 800kw Bow Thruster & 1 x 800kw Stern Thruster
- ► Fuel Capacity: 1200 MT // Clear Deck : 500 M2
- Deadweight Capacity : 2180MT
- Dynamic Positioning DP-2 System
- ► Fire-Fighting FiFi Class 1
- CCTV Ship Security & Operations
- V-SAT Ku Band Intellian V85
- Anti Pollution Oil Spill Response
- Environmental IMO Compliance
- Accommodation Total 40 Berths
- 27 Cabins c/w Ensuite Bathroom
- ▶ 10 Single & 15 Double Cabin
- 1 Hospital Cabin
- 1 Ship Office Cabin
- Galley with Messroom for 30 persons
- Recreation & Laundry Room



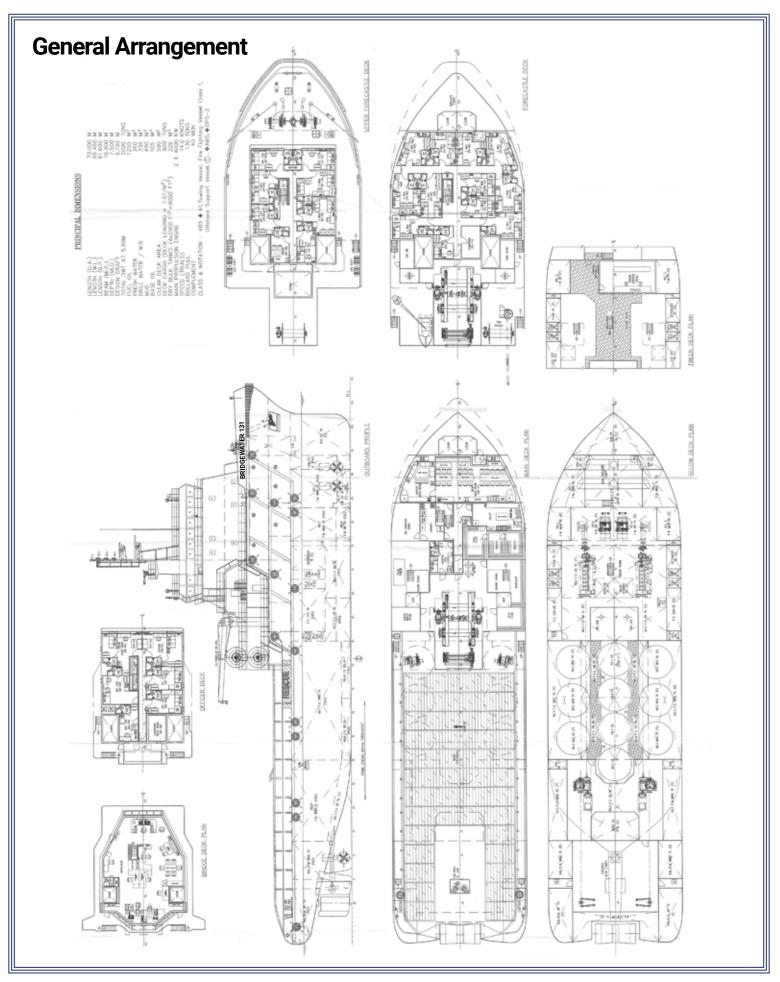




BELOW DECK PLAN



### BRIDGEWATER 131 10,800BHP 70M AHTS DP2 FIFI 1





MAIN PARTICULARS	
Vessel Name	BRIDGEWATER 131
IMO No.	9555412
Year Built	2009-12
Place Built	Fujian Southeast Shipyard-China
Port - Flag Registry	Port Kelang, Malaysia
Callsign	9MYE2
Official No.	336814
GRT / NRT	2708 / 812
Class Notation A B S	
	1 Offshore Support Vessel ( E )强AMS 🕸 DPS-2

Unrestricted Navigation

	Unrestricted Navigation	
DIMENSIONS		
Length - OA	70.00 M	
Length - BP	64.00 M	
Breadth - Moulded	16.80 M	
Depth - Moulded	7.50 M	
Draft - Moulded	6.10 M	
Deadweight Max Capacity	2180 tonnes	
Deck cargo capacity	700 tonnes	
Main Cargo Deck ( L x B )	33.5M X 13.5M	
Deck Strength	7.5 Tonnes /M2	
Deck Area	500 M2	
BULK CAPACITIES		TRANSFER RATE
Fuel Oil	1221 m3	1 x 150m3/h @75m head
Fresh Water	393.5 m3	1 x 150m3/h @75m head
Ballast/Drill Water	1339.7 m3	1 x 150m3/h @75m head
Liquid Mud / Brine	490 m3	2 x 75m3/h @75m head
Base Oil	104 m3	1 x 61m3/h @90m head
Dry bulk mud / cement	226 m3	2 x 18m3/h @80psi
MACHINERY		
Main Engine Propulsion	2 x 4000kw@750rpm Wa	
	CPP Propeller in Kort Noz	
Bow Tunnel Thruster CPP	2 x 600kw(800bhp) Warts	sila CT175H-D 9.5te thrust
Stern Tunnel Thruster CPP	1 x 600kw(800bhp) Warts	sila CT175H-D 9.5te thrust
Auxilliary Diesel Generator	2 x 350kw Leroy 415V/3F	•
Shaft Generator	2 x 1600kw 415V/3P/50H	Iz Marelli Motori
Emergency Generator	1 x 65kw/415V/3P/50Hz Caterpillar C4.4	
Bulk Air Compressors	2 x Airman SWS125/18m	
Service Air Compressors	2 x Sperre PL2 /77 3.3Mp	a
PERFORMANCE & CONSUMPTION		
Maximum Speed	14 Kts @ 35 mt/day (@10	00% MCR)
Service Speed	12 Kts @ 23 mt/day	
Ecnomical Speed	10 Kts @ 18 mt/day	
Anchor Handling Towing	23 mt / day	
DP Operations	15 mt / day	
Outport Standby	9 mt / day	
Anchor in Port	0.9 mt / day	
ANCHOR HANDLING TOWING EQU		
Bollard Pull	125 tonnes 135 tonnes	s approximately
Anchor Handling Towing Winch		attvaag SL300/ BSL300W
Line Pull Capacity	300 tonnes @ 1st layer	
Brake Holding Capacity	450 tonnes @ 1st layer	
Towing Drum Capacity	Wire diameter 76mm x 20	000 m length
Anchor Handling Drum	Wire diameter 76mm x 20	
Storage Reel w/spare wire	Wire diameter 76mm x 20	
Storage Reel w/spare wire	Pendant wires & 300m w	
Rig Chain Gypsy	1 x 76mm 1 x 90mm	
Chain Locker	2 x 70 m3	
Towing Pins	1 x Karmoy Retractable S	WL 500 tonnes
Shark Jaws / Karm Fork	1 x Karmoy Retractable S	
Stern roller	Dia 2.2m x Length 5m SW	
DECK MACHINERY AND MOORING	EQUIPMENT	
Tugger Winch	2 x SWL 10 tonnes Brattv	aag LAKMX41015
Capstan	2 x SWL 10 tonnes Rolls I	Royce LC-XX41015
Deck Crane	1 x SWL 5ton @ 15m Telescopic Provision Crane	
Anchor Windless	1 x SWL 14 tonnes Bratty	aan double gynsy

1 x SWL 14 tonnes Brattvaag double gypsy windlass with 2 warping drum

2 x dia 46 mm x 440 m studlink anchor chain

2 x AC14 HHP 2046Kg anchor

Anchor Windlass

Anchor Chain

Anchor

### BRIDGEWATER 131 10,800BHP 70M AHTS DP2 FiFi 1

OWNER / MANAGER	BRIDGEWATER OFFSHORE PTE LTD
	<b>KIM HENG MARINE &amp; OILFIELD PTE LTD</b>
	enquiry@kimheng.com.sg www.kimheng.com.sg
Telephone / Fax	(65) 6777 9990 / (65) 6778 9990
BRIDGE NAVIGATION EQUIPMENT	
S-Band Radar 10cm ARPA28	1 x Furuno FAR 2117S
X-Band Radar 3cm ARPA28	1 x Furuno FAR 2137S
Auto Pilot Magnetic Compass	Raytheon Anschutz Pilot Star D NP-2015 Saura ME-150
GPS	Furuno GP-150
Echo Sounder	Furuno FE-700 with printer
AIS	Furuno FA-150
Navtex	Furuno NX-700
Weather Fax Anemometer	Furuno FAX-408 2 x Young Wind Tracker
Doppler Speed Log	Furuno DS-80
DYNAMIC POSITIONING SYSTEM A DP Control System	Converteam DP-21
Gyro Compass	3 x Raytheon Anschutz STD22
DGPS Reference System	2 x DGPS Veripos LD3-G1 Cyscan MK2
VRU	1 x TSS DMS RP30
Wind Sensor	3 x Gill Wind Observer 2
BRIDGE COMMUNICATION & MONI	TORING EQUIPMENT
IMMARSAT Comm C	Furuno FELCOM 15
Marine SSB Radio system	Furuno FS2570C / HS2001
VHF DSC Portable VHF (GMDSS)+battery	2 x Furuno FM8800S 3 set McMurdo SART S4
EPIRB 406 / 121.5 mhz	McMurdo E3
Satellite Phone	Sailor Thrane & Thrane
Portable VHF Radio	2 x ICOM GM-1500
Towing & Anchoring Handling	Rolls Royce AHT Control panel
Bulk Handling System	Unislip Bulk Handling System
CCTV surveillance system PA System	Anchor Handling & Bridgewatch Vingtor 250W
BNWAS System	Fitted
V-SAT Ku Band Intellian V85 with 1	024/ 512 MIR 128/64 CIR
FIRE FIGHTING CAPABILITY - ABS	FIFI CLASS 1
Main Ship Fire Pump	1 x 75m3/h @90m head
Emergency Fire Pump	1 x 35m3/h @50m head
Water / Foam Monitor	2 x 1200m3/h @160m Throw
External FiFi Pump FFS/Scanpump SPP250 x 350 HD F	2 x 1500m3/h @14bar Ivdrakit system
FOAM Capacity	21.5m3
Water Curtain Spray System	Accommodation & main deck
Fixed Fire Fighting CO2 system for	machinery system
LIFE SAVING AND STANDBY RESCU	JE CAPABIITY
Fitted in Compliance with IMO SOL	AS (1974) Approved
SWL 21kN Launching & Recovery S	
Fast Rescue Craft FRC-6pax	Zodiac Inflatable Rescue Craft
RESCUE ZONE	2 Zones Scrambling Net fitted
ANTI POLLUTION CAPABILITY	
Dispersant Storage Capacity	21.5m3 2 Set
Dispersant Spray Boom 6Mtr Emergency Anti Pollution Kit	2 Set
External Oil Recovery System	Optional IMO TIER 1 Capability
ACCOMMODATION & FACILITIES	
Accommodation fitted with Aircond	litioning System
25 Cabins -Total 40 Persons	10 x Single Berth 15 x Double Berth
1 x Hospital Cabin Single Berth	Ship Office, DP2 Instrument Cabin
Galley, Mess Room, Recreation Roo	
2 x JCU IVY Refrigeration fitted Col	
Laundry Room and Workwear PPE (	-
ENVIRONMENTAL IMO MARPOL CO	
WCB-50 pax holding capacity Sewa	
15-ppm Taiko Kikai Oily Water Sepa Water Maker Sea Recovery Coral Se	
Domestic Sanitary system 500Litre	÷
Anti Air Pollution Engines Exhaust	

Anti Air Pollution Engines Exhaust System Bulk Cargo load/discharge station spill containment

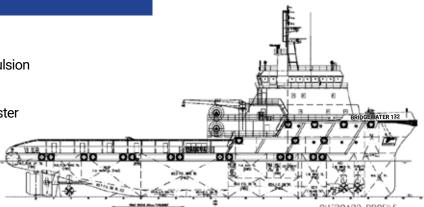


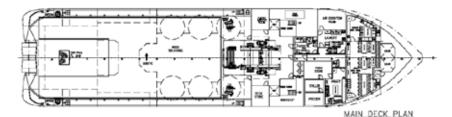
### BRIDGEWATER 132 10,800BHP 70M AHTS DP2 FiFi 1

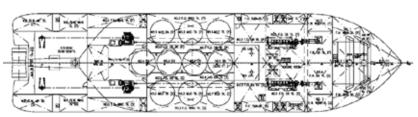


10,800BHP 130TBP DP2 FIFI 1 Anchor Handling Tug Supply Standby Escort Rescue Tug

- ▶ 10,800 BHP ( 8,000KW ) Controllable Pitch Propulsion
- ▶ 120MT to 135MT Bollard Pull
- ▶ 2 x 800kw Bow Thruster & 1 x 800kw Stern Thruster
- ► Fuel Capacity: 1200 MT // Clear Deck : 500 M2
- Deadweight Capacity : 2180MT
- Dynamic Positioning DP-2 System
- ► Fire-Fighting FiFi Class 1
- CCTV Ship Security & Operations
- V-SAT Ku Band Intellian V85
- Anti Pollution Oil Spill Response
- Environmental IMO Compliance
- Accommodation Total 40 Berths
- 27 Cabins c/w Ensuite Bathroom
- ▶ 10 Single & 15 Double Cabin
- 1 Hospital Cabin
- 1 Ship Office Cabin
- Galley with Messroom for 30 persons
- Recreation & Laundry Room

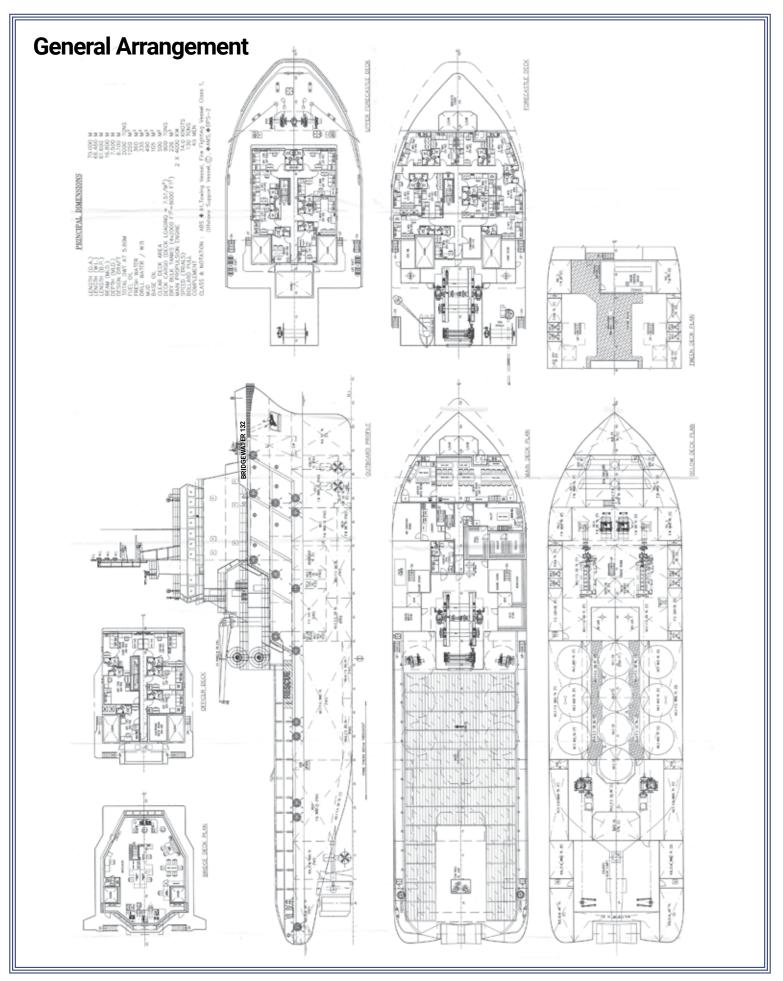








### BRIDGEWATER 132 10,800BHP 70M AHTS DP2 FIFI 1





BRIDGEWATER 132
9555424
2010-02
Fujian Southeast Shipyard-China
Port Kelang, Malaysia
9MYS9
336926
2708 / 812
★A1 Anchor Handling Towing Vessel FiFi Class
1 Offshore Support Vessel ( E )承AMS 🕸 DPS-2

Unrestricted Navigation

DIMENSIONS	
Length - OA	70.00 M
Length - BP	64.00 M
Breadth - Moulded	16.80 M
Depth - Moulded	7.50 M
Draft - Moulded	6.10 M
Deadweight Max Capacity	2180 tonnes
Deck cargo capacity	700 tonnes
Main Cargo Deck ( L x B )	33.5M X 13.5M
Deck Strength	7.5 Tonnes /M2
Deck Area	500 M2

BULK CAPACITIES		IRANSFER RATE
Fuel Oil	1221 m3	1 x 150m3/h @75m head
Fresh Water	393.5 m3	1 x 150m3/h @75m head
Ballast/Drill Water	1339.7 m3	1 x 150m3/h @75m head
Liquid Mud / Brine	490 m3	2 x 75m3/h @75m head
Base Oil	104 m3	1 x 61m3/h @90m head
Dry bulk mud / cement	226 m3	2 x 18m3/h @80psi

MACHINERY	
Main Engine Propulsion	2 x 4000kw@750rpm Wartsila 8L32 Diesel Engine
	CPP Propeller in Kort Nozzle Total 10800bhp
Bow Tunnel Thruster CPP	2 x 600kw(800bhp) Wartsila CT175H-D 9.5te thrust
Stern Tunnel Thruster CPP	1 x 600kw(800bhp) Wartsila CT175H-D 9.5te thrust
Auxilliary Diesel Generator	2 x 350kw Leroy 415V/3P/50Hz Caterpillar C18
Shaft Generator	2 x 1600kw 415V/3P/50Hz Marelli Motori
Emergency Generator	1 x 65kw/415V/3P/50Hz Caterpillar C4.4
Bulk Air Compressors	2 x Airman SWS125/18m3/h x 80 PSI
Service Air Compressors	2 x Sperre PL2 /77 3.3Mpa

 PERFORMANCE & CONSUMPTION

 Maximum Speed
 14 Kts @ 35 mt/day (@100% MCR)

 Service Speed
 12 Kts @ 23 mt/day

 Ecnomical Speed
 10 Kts @ 18 mt/day

 Anchor Handling Towing
 23 mt / day

 DP Operations
 15 mt / day

 Outport Standby
 9 mt / day

0.9 mt / day

Anchor in Port

Bollard Pull	125 tonnes 135 tonnes approximately
Anchor Handling Towing Winch	Double drum waterfall Brattvaag SL300/ BSL300W
Line Pull Capacity	300 tonnes @ 1st layer
Brake Holding Capacity	450 tonnes @ 1st layer
Towing Drum Capacity	Wire diameter 76mm x 2000 m length
Anchor Handling Drum	Wire diameter 76mm x 2000 m length
Storage Reel w/spare wire	Wire diameter 76mm x 2000 m length
Storage Reel w/spare wire	Pendant wires & 300m work wire dia 76mm
Rig Chain Gypsy	1 x 76mm 1 x 90mm
Chain Locker	2 x 70 m3
Towing Pins	1 x Karmoy Retractable SWL 500 tonnes
Shark Jaws / Karm Fork	1 x Karmoy Retractable SWL 500 tonnes
Stern roller	Dia 2.2m x Length 5m SWL 500 tonnes

DECK MACHINERY AND MOORING EQUIPMENT	
Tugger Winch	2 x SWL 10 tonnes Brattvaag LAKMX41015
Capstan	2 x SWL 10 tonnes Rolls Royce LC-XX41015
Deck Crane	1 x SWL 5ton @ 15m Telescopic Provision Crane
Anchor Windlass	1 x SWL 14 tonnes Brattvaag double
	gypsy windlass with 2 warping drum
Anchor Chain	2 x dia 46 mm x 440 m studlink anchor chain
Anchor	2 x AC14 HHP 2046Kg anchor

### BRIDGEWATER 132 10,800BHP 70M AHTS DP2 FiFi 1

OWNER / MANAGER	BRIDGEWATER OFFSHORE PTE LTD
	KIM HENG MARINE & OILFIELD PTE LTD
	enquiry@kimheng.com.sg www.kimheng.com.sg
Telephone / Fax	(65) 6777 9990 / (65) 6778 9990
BRIDGE NAVIGATION EQUIPMENT	
S-Band Radar 10cm ARPA28	1 x Furuno FAR 2117S
X-Band Radar 3cm ARPA28 Auto Pilot	1 x Furuno FAR 2137S Raytheon Anschutz Pilot Star D NP-2015
Magnetic Compass	Saura ME-150
GPS	Furuno GP-150
Echo Sounder	Furuno FE-700 with printer
AIS	Furuno FA-150
Navtex Weather Fax	Furuno NX-700 Furuno FAX-408
Anemometer	2 x Young Wind Tracker
Doppler Speed Log	Furuno DS-80
DYNAMIC POSITIONING SYSTEM A	BS # NPS-2
DP Control System	Converteam DP-21
Gyro Compass	3 x Raytheon Anschutz STD22
DGPS Reference System	2 x DGPS Veripos LD3-G1 Cyscan MK2
VRU	1 x TSS DMS RP30
Wind Sensor	3 x Gill Wind Observer 2
BRIDGE COMMUNICATION & MONI	
IMMARSAT Comm C	Furuno FELCOM 15
Marine SSB Radio system VHF DSC	Furuno FS2570C / HS2001           2 x Furuno FM8800S
Portable VHF (GMDSS)+battery	3 set McMurdo SART S4
EPIRB 406 / 121.5 mhz	McMurdo E3
Satellite Phone	Sailor Thrane & Thrane
Portable VHF Radio	2 x ICOM GM-1500
Towing & Anchoring Handling Bulk Handling System	Rolls Royce AHT Control panel Unislip Bulk Handling System
CCTV surveillance system	Anchor Handling & Bridgewatch
PA System	Vingtor 250W
BNWAS System	Fitted
V-SAT Ku Band Intellian V85 with 1	024/ 512 MIR 128/64 CIR
FIRE FIGHTING CAPABILITY - ABS	FIFI CLASS 1
Main Ship Fire Pump	1 x 75m3/h @90m head
Emergency Fire Pump	1 x 35m3/h @50m head
Water / Foam Monitor External FiFi Pump	2 x 1200m3/h @160m Throw 2 x 1500m3/h @14bar
FFS/Scanpump SPP250 x 350 HD H	*
FOAM Capacity	21.5m3
Water Curtain Spray System	Accommodation & main deck
Fixed Fire Fighting CO2 system for	machinery system
LIFE SAVING AND STANDBY RESCU	
Fitted in Compliance with IMO SOLA	
SWL 21kN Launching & Recovery Sy Fast Rescue Craft FRC-6pax	ystem for MOB/FRC Zodiac Inflatable Rescue Craft
RESCUE ZONE	2 Zones Scrambling Net fitted
ANTI POLLUTION CAPABILITY	• •
Dispersant Storage Capacity	21.5m3
Dispersant Spray Boom 6Mtr	2 Set
Emergency Anti Pollution Kit	1 set
External Oil Recovery System	Optional IMO TIER 1 Capability
ACCOMMODATION & FACILITIES	
Accommodation fitted with Aircond	itioning System
25 Cabins - Total 40 Persons	10 x Single Berth 15 x Double Berth
1 x Hospital Cabin Single Berth	Ship Office, DP2 Instrument Cabin
Galley, Mess Room, Recreation Roo 2 x JCU IVY Refrigeration fitted Colo	
Laundry Room and Workwear PPE C	
ENVIRONMENTAL IMO MARPOL CO	
WCB-50 pax holding capacity Sewa	
15-ppm Taiko Kikai Oily Water Sepa	
Water Maker Sea Recovery Coral Se	
Domestic Sanitary system 500Litres	
Anti Air Pollution Engines Exhaust S	system

Bulk Cargo load/discharge station spill containment

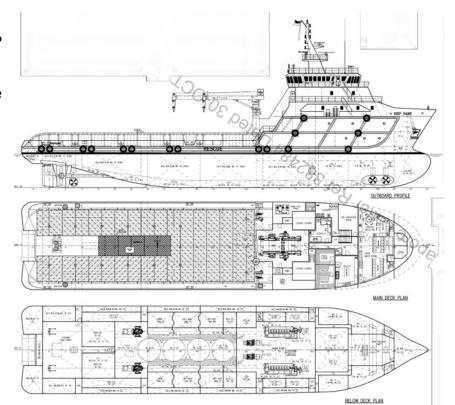


#### BRIDGEWATER 108 8,320 BHP 75M AHTS DP2 FIFI 1



Anchor Handling Tug Supply Standby Escort Rescue Tug

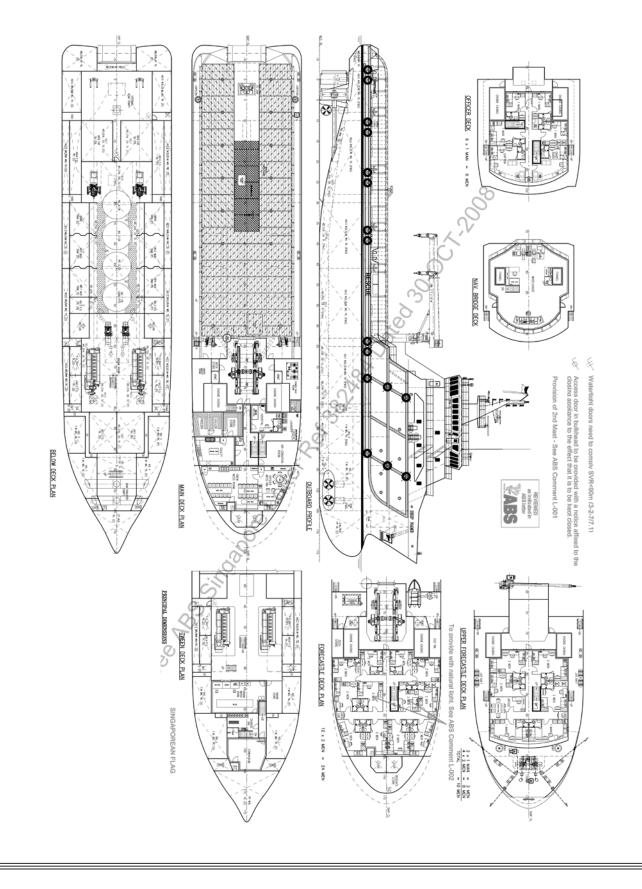
- 8,320 BHP (6120Kw) BERG BCP-850 CPP
- ▶ 101-118 MT Estimate Bollard Pull
- 2 X 600 Kw (800BHP) Bow thruster 9.5te
- 1 X 600 Kw (800BHP) Stern thruster 9.5te
- Dynamic Positioning DPS-2 Kongsberg
- Fire-Fighting FiFi Class 1
- ► Fuel Capacity 858 M3 approx.
- Potable Water 375 M3 approx.
- Dry Bulk 226 m3 approx.
- Brine 210 m3 approx.
- Liquid Mud 395 m3 approx.
- Clear Deck 500 M2 / 800te Deck Cargo
- Chain Locker 2 X 80 m3 approx.
- Deadweight Cap 2,500 MT
- CCTV Surveillance System equipped
- Anti Pollution Oil Spill Response
- V-SAT Ku Band Intellian V85
- Environmental IMO Compliance
- Accommodation for 40 Persons
- ▶ 26 Cabins w Ensuite Bathroom
- ▶ 8 x Single berth; 16 x double Berth
  - Hospital Cabin & Ship Office
    - Galley, Mess Room, Recreation Room
    - Laundry & PPE Change Out Zone





#### BRIDGEWATER 108 8,320 BHP 75M AHTS DP2 FIFI 1

### **General Arrangement**





BRIDGEWATER 108
9578816
2012-11
Guangzhou Hangtong Shipbuilding, China
Majuro, Marshall islands
V7ZA2
4776
2759 / 827
Offshore Support Vessel ( E )⊛AMS 🕸 DPS-2
Unrestricted Navigation

DIMENSIONS			
Length - OA	75.00 M		
Length - BP	68.00 M		
Breadth - Moulded	16.00M		
Depth - Moulded	7.50 M		
Draft - Moulded	6.10 M		
Deadweight Max Capacity	2500 tonnes		
Deck cargo capacity	800 tonnes		
Main Cargo Deck (L x B)	33.5M X 13.5M		
Deck Strength	7.5 Tonnes /M2		
Deck Area	500 M2		
BULK CAPACITIES	0502	TRANSFER RATE	
Fuel Oil	858 m3	1 x 150m3/h @75m head	
Fresh Water	385 m3	1 x 150m3/h @75m head	
Ballast/Drill Water	1370 m3	1 x 150m3/h @75m head	
Liquid Mud	395 m3	2 x 100m3/h @75m head	
Brine	210 m3	1 x 75m3/h @90m head	
Dry bulk	226 m3	2 x 30m3/h @80psi	
MACHINERY			
Main Engine Propulsion	2 x 3060kw@1000rpm	Wartsila 9L26 Diesel Engine	
	BERG BCP-850 CPP Prop	eller in Kort Nozzle Total 8320bhp	
Bow Tunnel Thruster CPP	2 x 600kw(800bhp) Wa	rtsila CT175H-D 9.5te thrust	
Stern Tunnel Thruster CPP	1 x 600kw(800bhp) Wartsila CT175H-D 9.5te thrust		
Auxilliary Diesel Generator	2 x 380kw Leroy 415V/3	2 x 380kw Leroy 415V/3P/50Hz Cummins KT-19	
Shaft Generator	2 x 1600kw 415V/3P/50	0Hz Leroy Somer	
Emergency Generator	1 x 95kw/415V/3P/50H	1 x 95kw/415V/3P/50Hz Cummins	
Bulk Air Compressors	2 x Airman SWS125/18m3/h x 80 PSI		
Service Air Compressors	2 x Sperre PL2 /77 3.3Mpa		
PERFORMANCE & CONSUMPTION	N		
Maximum Speed	14 Kts @ 25 mt/day (@	100% MCR)	
Service Speed	12 Kts @ 15 mt/day	i	
Ecnomical Speed	10 Kts @ 12 mt/day		
Anchor Handling Towing	18 mt / day		
DP Operations	12 mt / day		
Outport Standby	8 mt / day		
Anchor in Port	0.9 mt / day		
ANCHOR HANDLING TOWING EQU			
Bollard Pull	101 tonnes 118 tonn		
Anchor Handling Towing Winch	Double drum waterfall 2		
Line Pull Capacity	200 tonnes @ 1st layer		
Brake Holding Capacity	300 tonnes @ 1st layer	1500 1 11	
Towing Drum Capacity	Wire diameter 64mm x		
Anchor Handling Drum	Wire diameter 64mm x		
Storage Reel w/spare wire	Wire diameter 64mm x		
Storage Reel w/spare wire	Pendant wires & 64m w	ork wire dia 200mm	
Rig Chain Gypsy	1 x 76mm 1 x 90mm		
Chain Locker	2 x 80 m3	011/1 000 -	
Towing Pins	1 x Karmoy Retractable		
Shark Jaws / Karm Fork	1 x Karmoy Retractable		
Stern roller	Dia 1.8m x Length 5m S	SWL 300 TONNES	
DECK MACHINERY AND MOORING			
Tugger Winch	2 x SWL 10 tonnes ZICC	M	
Capstan	2 x SWL 5 tonnes ZICO		
Deck Crane		S Marine Telescopic Crane	
Anchor Windlass	1 x SWL 8.5 tonnes ZIC		
	windlace with 2 warning	n drum	

windlass with 2 warping drum

2 x AC14 HHP 1850Kg anchor

2 x dia 44 mm x 468 m u2 studlink anchor chain

Anchor Chain

Anchor

#### BRIDGEWATER 108 8,320 BHP 75M AHTS DP2 FiFi 1

OWNER / MANAGER	BRIDGEWATER OFFSHORE PTE LTD
	KIM HENG MARINE & OILFIELD PTE LTD
Telephone / Fax	enquiry@kimheng.com.sg www.kimheng.com.sg (65) 6777 9990 / (65) 6778 9990
BRIDGE NAVIGATION EQUIPMENT	
S-Band Radar 10cm ARPA28	1 x Furuno FAR 2117S
X-Band Radar 3cm ARPA28	1 x Furuno FAR 2137S
Auto Pilot Magnetic Compass	Raytheon Anschutz Pilot Star D NP-2015 Cassens & Plath
GPS	Furuno GP-150
Echo Sounder	Furuno FE-700 with printer
AIS Navtex	Furuno FA-150 Furuno NX-700
Weather Fax	Furuno FAX-408
Anemometer	2 x Young Wind Tracker
Doppler Speed Log	Furuno DS-80
DYNAMIC POSITIONING SYSTEM A	
DP Control System Gyro Compass	Kongsberg 3 x Raytheon Anschutz STD22
DGPS Reference System	2 x DGPS Veripos LD3-G1 Cyscan MK2
VRU	1 x TSS DMS RP30
Wind Sensor	3 x Gill Wind Observer 2
BRIDGE COMMUNICATION & MONIT	
IMMARSAT Comm C Marine SSB Radio system	Furuno FELCOM 15 Furuno FS2570C / HS2001
VHF DSC	2 x Furuno FM8800S
Portable VHF (GMDSS)+battery	3 set McMurdo SART S4
EPIRB 406 / 121.5 mhz	McMurdo E3
Satellite Phone Portable VHF Radio	Sailor Thrane & Thrane 2 x ICOM GM-1500
Towing & Anchoring Handling	Rolls Royce AHT Control panel
Bulk Handling System	Unislip Bulk Handling System
CCTV surveillance system	Anchor Handling & Bridgewatch
PA System BNWAS System	Vingtor 250W Fitted
V-SAT Ku Band Intellian V85 with 1	024/ 512 MIR 128/64 CIR
FIRE FIGHTING CAPABILITY - ABS	FIFI CLASS 1
Main Ship Fire Pump	1 x 75m3/h @90m head
Emergency Fire Pump	1 x 35m3/h @50m head
Water / Foam Monitor External FiFi Pump	2 x 1200m3/h @160m Throw 2 x 1500m3/h @12bar
FFS/Scanpump SPP250 x 350 HD H	
FOAM Capacity	21.5m3
Water Curtain Spray System	Accommodation & main deck
Fixed Fire Fighting CO2 system for	
LIFE SAVING AND STANDBY RESCU	
Fitted in Compliance with IMO SOLA SWL 21kN Launching & Recovery S	
Fast Rescue Craft FRC-6pax	Zodiac Inflatable Rescue Craft
RESCUE ZONE	2 Zones Scrambling Net fitted
ANTI POLLUTION CAPABILITY	
Dispersant Storage Capacity	21.5m3
Dispersant Spray Boom 6Mtr	2 Set
Emergency Anti Pollution Kit External Oil Recovery System	1 set Optional IMO TIER 1 Capability
ACCOMMODATION & FACILITIES	
Accommodation fitted with Aircond	itioning System
25 Cabins - Total 40 Persons	8 x Single Berth 16 x Double Berth
1 x Hospital Cabin Single Berth	Ship Office, DP2 Instrument Cabin
Galley, Mess Room, Recreation Roo 2 x JCU IVY Refrigeration fitted Col	
Laundry Room and Workwear PPE C	
ENVIRONMENTAL IMO MARPOL CO	
WCB-50 pax holding capacity Sewa	
15-ppm HELI-SEP Oily Water Separator of 1m3/hr	
Water Maker Sea Recovery Coral Se	÷
Domestic Sanitary system 500Litres	
Anti Air Pollution Engines Exhaust System	

Bulk Cargo load/discharge station spill containment

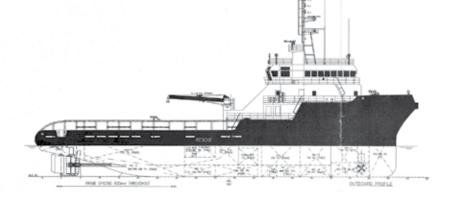


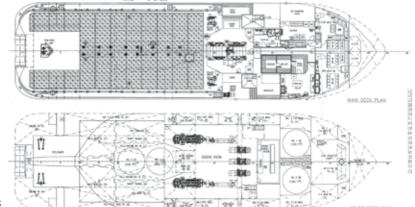
### **MAZU 60** 5150 BHP 59M AHTS DP1 FiFi 1



5150BHP 65TBP DP1 FiFi 1 Anchor Handling Tug Supply Standby Escort & Rescue Tug

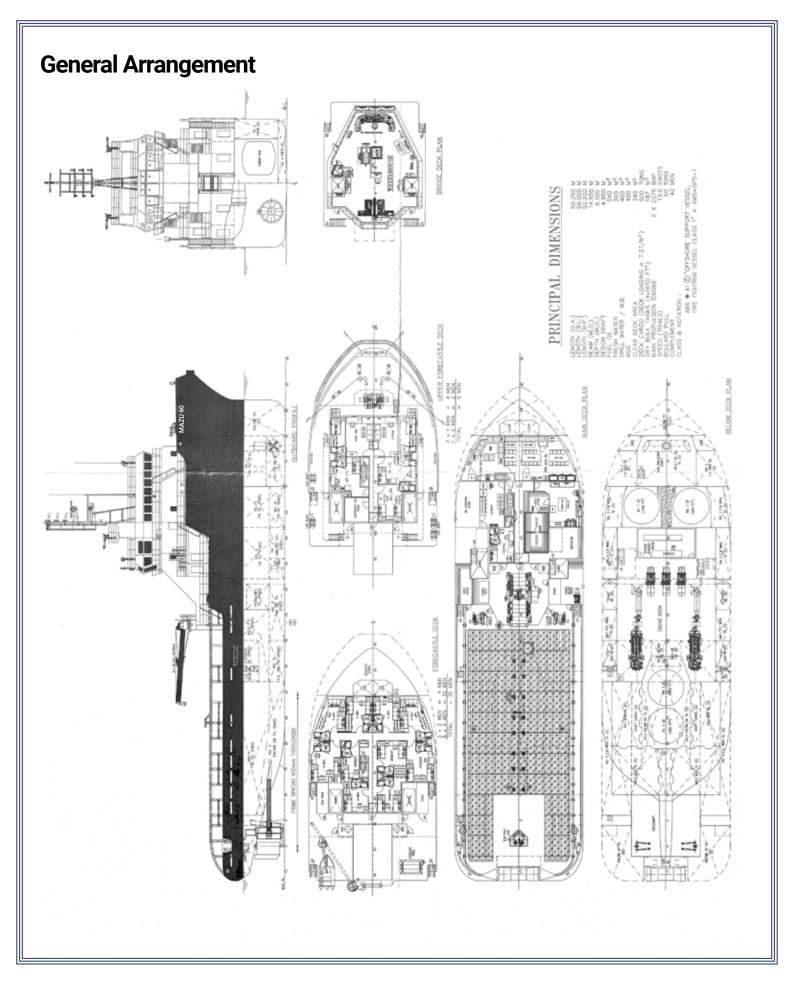
- ▶ 5,150 BHP 65TBP BERG CPP
- ▶ 60 MT to 70 MT Estimate Bollard Pull
- ▶ 390Kw Kawasaki 6te Bow thruster
- Dynamic Positioning DPS-1
- ► Fire-Fighting FiFi Class 1
- ► Fuel Capacity 550 M3 approx.
- ▶ Potable Water 373 M3 approx.
- Cement Bulk 180 m3 approx.
- ▶ Liquid Mud 413 m3 approx.
- ► Clear Deck 360 M2 // 500te Deck Cargo
- Deadweight Cap 1,356 MT
- CCTV Surveillance System equipped
- Anti Pollution Oil Spill Response
- V-SAT Ku Band Intellian V85
- Environmental IMO Compliance
- Accommodation for 42 Persons
- ▶ 15 Cabins w Ensuite Bathroom
- 4 x Single berth; 3 x double Berth; 8 x 4 berths
  - Hospital Cabin & Ship Office
  - Galley, Mess Room, Recreation Room
    - Laundry & PPE Change Out Zone







### MAZU 60 5150 BHP 60M AHTS DP1 FiFi 1





MAIN PARTICULARS	
Vessel Name	MAZU 60
IMO No.	9563366
Year Built	2011-08
Place Built	CHONGQING JINLONG SHIPBUILDING -CHINA
Port - Flag Registry	PORT KELANG, MALAYSIA
Callsign / Official No	9WNC9
MMSI	563 3690000
GRT / NRT	1678 / 503
ABS Class certificate No.	11203475
Class Notation A B S	
	1 Offshore Support Vessel ( E ) 🕸 AMS 🕸 DPS-1
	Unrestricted Navigation

DIMENSIONS	
Length - OA	59.30 M
Length - BP	52.20 M
Breadth - Moulded	15.0 M
Depth - Moulded	6.10 M
Draft - Moulded	4.95 M
Displacement / Deadweight	2897.5 tonnes / 1356 tonnes @4.95m approx
Deck cargo capacity	500 tonnes approx
Main Cargo Deck ( L x B )	27.5M X 12.4M 340 M2 approx
Deck Strength	7.5 Tonnes /M2

BULK CAPACITIES		TRANSFER RATE
Fuel Oil	540 m3	1 x 150 m3/h @75m head
Potable Water	373 m3 approx	1 x 100 m3/h @75m head
Drill Water / Sea water Ballast	396.6 m3 approx	1 x 100 m3/h @75m head
Liquid Mud / Brine / Base Oil	413 m3 approx	2 x 75m3/h @75m head
Dry bulk (4 tanks x 1,650cuft)	186.9 m3	2 x 13.0 m3/h @80psi
Detergent ( Oil Polution )	13 m3 approx	
Foam (Fire fighting)	13 m3 approx	
Dirty Oil Tk / Bilge Oil Tk	6.5 m3 / 6.5 m3 each	

MACHINERY	
Main Engine Propulsion	2 x 1921kw(2575BHP)@1600rpm CAT3516B-HD
	Engine BERG BCP690 CPP Propeller in Kort Nozzle
Bow Tunnel Thruster FPP	1 x 390kw Kawasaki KT-55B3 6.0 t thruster
Auxilliary Diesel Generator	3 x 350kw CAT C18 450V/3P/50Hz
Shaft Generator	2 x 450kw Leroy Somer LSAM471L11 440V/3P/50Hz
Emergency Generator	1 x 65 kw/450V/3P/50Hz Perkin Generator

<b>PERFORMANCE &amp; CONSUMPTI</b>	ON	
Maximum Speed	13 Kts @ 20 m3/24 hr	
Service Speed	10 Kts @ 12 m3/24 hr	
Ecnomical Speed	8 Kts @ 9 m3/24 hr	
Anchor Handling Towing	18 m3 / day	
Outport Standby	6 m3 / day	
Anchor in Port	2.5 m3 / day	

Bollard Pull	60 t - 72.8 t approximately
Anchor Handling Towing Winch	Electro Hydraulic Double drum MEP-AHTW/WF-150-200
Line Pull Capacity	150 tonnes @ 1st layer
Brake Holding Capacity	200 tonnes @ 1st layer
Towing Drum Capacity	Wire diameter 56mm x 1000 m length
Anchor Handling Drum	Wire diameter 56mm x 1000 m length
Storage Reel w/spare wire	Wire diameter 56mm x 1000 m length
Storage Reel w/spare wire	Pendant wires & 300m work wire dia 56mm
Hydraulic Bollard	2 x Triplex P-150 Quick Release 150Mt
Towing Pins	1 x Karmfork Retractable SWL 160 tonnes
Shark Jaws for up to 3.1/2"	1 x Karmfork Retractable SWL 300 tonnes
Stern roller	5.0m x 1.6m diameter SWL 200 tonnes
Chain Chaser	1 x 110t J Hook / 1 x 110t 4-Prong Grapnel

DECK MACHINERY AND MOORING EQUIPMENT	
Tugger Winch	2 X SWL10t MEP-10/25 90Mx 19mm wire
Capstan	2 x SWL 5 tonnes MEP-HC-5
Deck Crane West Marine	WME-FC3090 Hydraulic crane SWL 3 tonne @9m
Anchor Windlass	1 x SWL 9t MEP double
	gypsy windlass with 2
Anchor Chain	ଅଙ୍ଗୁଗୁରୁଟ୍ୟାମ୍ମ x 220m (17 shackle) anchor chain
Anchor	2 x AC14 HHP 1490Kg anchor

### **MAZU 60** 5150 BHP 60M AHTS DP1 FiFi 1

OWNER / MANAGER	BRIDGEWATER OFFSHORE PTE LTD KIM HENG MARINE & OILFIELD PTE LTD
	enquiry@kimheng.com.sg www.kimheng.com.sg
Telephone / Fax	(65) 6777 9990 / (65) 6778 9990
BRIDGE NAVIGATION EQUIPMENT	
S-Band Radar 10cm ARPA28	1 x Furuno FR 1510 MK3
X-Band Radar 3cm ARPA28	1 x Furuno FAR 2117
Auto Pilot Magnetic Compass Class A	Raytheon Anschutz Pilotstar D 2 x Cassens & Plath Reflecta1
GPS	Furuno GP-150
Echo Sounder	Furuno FE-700
AIS	Furuno FA-150
Navtex Weather Fax	Furuno NX-700B Furuno FAX-408
Anemometer	1 x Raymarine ST60+
Doppler Speed Log	Furuno DS-80
DYNAMIC POSITIONING SYSTEM A Magnetic Compass CPLATH	BS & DPS-1 2 x Cassens & Plath Reflecta1
Gyro Compass	1 x Raytheon Anschutz STD-22
DGPS Reference System	1 x Furuno GP-150
Kongsberg Cjoy Joystick	fitted
BRIDGE COMMUNICATION & MONI	
IMMARSAT B + C Comm	Furuno +FELCOM-15
Marine SSB Radio system	Furuno FS2571C
VHF RADIO + DSC	2 x Furuno FM-8800
Portable VHF (GMDSS)+battery	3 set SART
EPIRB 406 / 121.5 mhz GMDSS (Area 3)	McMurdo E5 Furuno RC-1500T 1 T
Portable VHF Radio	2 x YAESU ICOM GM-1500
Towing & Anchoring Handling	Rolls Royce AHT Control panel
Bulk Handling System	Fitted
CCTV surveillance system	Anchor Handling & Bridgewatch VINGTOR ACM-M36 250W / VSP
PA System / Sound Telephone BNWAS System	Fitted
Multi Gas Detector system	Fitted
V-SAT Ku Band Intellian V85 with 1	024/ 512 MIR 128/64 CIR
FIRE FIGHTING CAPABILITY - ABS	FIFLCLASS 1
Main Ship Fire Pump	1 x 75m3/h @90m head
Emergency Fire Pump	1 x 60m3/h @70m head
Water / Foam Monitor	2 x 1200m3/h @160m Throw
External FiFi Pump	2 x 1500m3/h @14bar
FOAM Mixer /Capacity Water Curtain Spray System	13m3 Accommodation & main deck
Fixed Fire Fighting CO2 system for	
Fire Detection & Alarm Control	Fitted
LIFE SAVING AND STANDBY RESCL	
Fitted in Compliance with IMO SOL	
WME-SAD14 SWL 1.35TE West Mar	
Fast Rescue Craft FRC	6 Pax FRP boat JY45KR OB Mercury 25 hp
RESCUE ZONE	2 Zones
ANTI POLLUTION CAPABILITY	
Dispersant Pump / Capacity	Fitted
Dispersant Spray Boom 6 Mtr	2 Set
Emergency Anti Pollution Kit	1 set
ACCOMMODATION & FACILITIES	
Accommodation for 42 Persons	4 x 1-berth, 3 x 2-berth, 8 x 4 Berth
15 Cabins w Ensuite Bathroom	Ship Office, Hospital, Meeting room
Galley, Mess Room, Recreation Roo	
2 x Refrigeration fitted Cold Room , 1 x dry provision store Laundry Room and Workwear PPE Changeout Zone	
ENVIRONMENTAL IMO MARPOL CO	
15-ppm Oily Water Separator FORV	
Sewage Treatment 1 x 50 pax Jiang RO Water Maker 1 x 5t/day Peter Ta	
Anti Air Pollution Engines Exhaust S	
Bulk Cargo load/dischargo station s	

Specifications given herein are believed to be correct but no guaranteed

Bulk Cargo load/discharge station spill containment

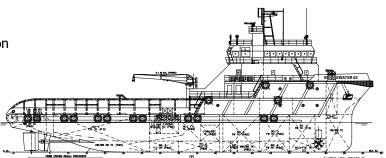


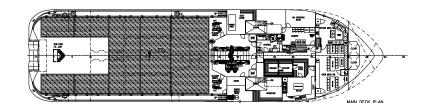
#### BRIDGEWATER 63 5150 BHP 60M AHTS FIFI 1

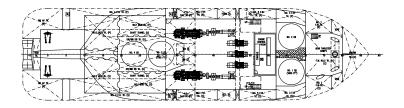


### Anchor Handling Tug Supply Standby Escort & Rescue Tug

- ► 5,150 BHP (3840kw) Controllable Pitch Propulsion
- ▶ 60 MT to 70 MT Estimate Bollard Pull
- ▶ 390Kw Kawasaki 6te Bow thruster
- ► Fuel Capacity 550 M3 approx.
- ► Potable Water 360 M3 approx.
- Drillwater 400M3 approx.
- Cement Bulk 187 M3 approx.
- Liquid Mud 413 m3 approx.
- Clear Deck 360 M2 / 500te Deck Cargo
- Deadweight Cap 1,360 MT
- Fire-Fighting FiFi Class 1
- Anti Pollution Oil Spill Response
- Environmental IMO Compliance
- V-SAT Ku Band Intellian V85
- ► CCTV Surveillance System equipped
- Accommodation for 42 Persons
- ▶ 15 Cabins w Ensuite Bathroom
- 4 x Single berth; 3 x double Berth; 8 x 4 berths
  - Hospital Cabin & Ship Office
  - Galley, Mess Room, Recreation Room
  - Laundry & PPE Change Out Zone



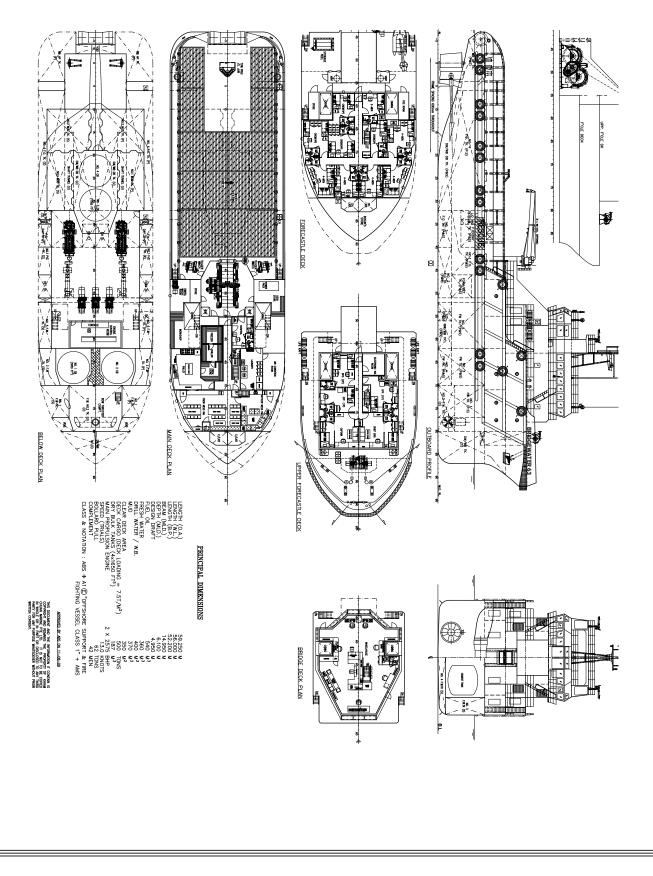






#### BRIDGEWATER 63 5150 BHP 59M AHTS FIFI 1

### **General Arrangement**



Specifications given herein are believed to be correct but no guaranteed



BRIDGEWATER 63
9552240
2010-06
FUJIAN SOUTH EAST SHIPYARD, CHINA
PORT KELANG, MALAYSIA
9WGN7 / 900066
533130184
1678 / 503
AA1 Anchor Handling Towing Vessel FiFi Class
1 Offshore Support Vessel ( E )∰AMS
Unrestricted Navigation

DIMENSIONS		
Length - OA	59.30 M	
Length - BP	52.20 M	
Breadth - Moulded	15.0 M	
Depth - Moulded	6.10 M	
Draft - Moulded	4.95 M	
Displacement / Deadweight	2897.5 tonnes / 1356	tonnes @4.95m approx
Deck cargo capacity	500 tonnes approx	
Main Cargo Deck ( L x B )	27.5M X 12.4M	340 M2 approx
Deck Strength	7.5 Tonnes /M2	

BULK CAPACITIES		TRANSFER RATE
Fuel Oil	540 m3	1 x 150 m3/h @75m head
Potable Water	373 m3 approx	1 x 100 m3/h @75m head
Drill Water / Sea water Ballast	396.6 m3 approx	1 x 100 m3/h @75m head
Liquid Mud / Brine / Base Oil	413 m3 approx	2 x 75m3/h @75m head
Dry bulk (4 tanks x 1,650cuft)	186.9 m3	2 x 13.0 m3/h @80psi
Detergent ( Oil Polution )	13 m3 approx	
Foam (Fire fighting)	13 m3 approx	
Dirty Oil Tk / Bilge Oil Tk	6.5 m3 / 6.5 m3 each	

#### MACHINERY

MACHINERT	
Main Engine Propulsion	2 x 1921kw(2575BHP)@1600rpm CAT3516B-HD
	Engine BERG BCP690 CPP Propeller in Kort Nozzle
Bow Tunnel Thruster FPP	1 x 390kw Kawasaki KT-55B3 6.0 t thruster
Auxilliary Diesel Generator	3 x 350kw CAT C18 450V/3P/50Hz
Shaft Generator	2 x 450kw Leroy Somer LSAM471L11 440V/3P/50Hz
Emergency Generator	1 x 65 kw/450V/3P/50Hz Perkin Generator

PERFORMANCE & CONSUMPTI	ON
Maximum Speed	13 Kts @ 20 m3/24 hr
Service Speed	10 Kts @ 12 m3/24 hr
Ecnomical Speed	8 Kts @ 9 m3/24 hr
Anchor Handling Towing	18 m3 / day
Outport Standby	6 m3 / day
Anchor in Port	2.5 m3 / day

#### ANCHOR HANDLING TOWING EQUIPMENT

Bollard Pull	60 t - 72.8 t approximately
Anchor Handling Towing Winch	Electro Hydraulic Double drum MEP-AHTW/WF-150-200
Line Pull Capacity	150 tonnes @ 1st layer
Brake Holding Capacity	200 tonnes @ 1st layer
Towing Drum Capacity	Wire diameter 56mm x 1000 m length
Anchor Handling Drum	Wire diameter 56mm x 1000 m length
Storage Reel w/spare wire	Wire diameter 56mm x 1000 m length
Storage Reel w/spare wire	Pendant wires & 300m work wire dia 56mm
Hydraulic Bollard	2 x Triplex P-150 Quick Release 150Mt
Towing Pins	1 x Karmfork Retractable SWL 160 tonnes
Shark Jaws for up to 3.1/2"	1 x Karmfork Retractable SWL 300 tonnes
Stern roller	5.0m x 1.6m diameter SWL 200 tonnes
Chain Chaser	1 x 110t J Hook / 1 x 110t 4-Prong Grapnel

DECK MACHINERY AND MOOF	
Tugger Winch	2 X SWL10t MEP-10/25 90Mx 19mm wire
Capstan	2 x SWL 5 tonnes MEP-HC-5
Deck Crane West Marine	WME-FC3090 Hydraulic crane SWL 3 tonne @9m
Anchor Windlass	1 x SWL 9t MEP double gypsy windlass
	with 2 warping drum
Anchor Chain	2 x dia 38 mm x 220m (17 shackle) anchor chain
Anchor	2 x AC14 HHP 1490Kg anchor

#### BRIDGEWATER 63 5150 BHP 60M AHTS FIFI 1

OWNER / MANAGER	BRIDGEWATER OFFSHORE PTE LTD
	KIM HENG MARINE & OILFIELD PTE LTD
	enquiry@kimheng.com.sg www.kimheng.com.sg
Telephone / Fax	(65) 6777 9990 / (65) 6778 9990

BRIDGE NAVIGATION EQUIPMENT	r
S-Band Radar 10cm ARPA28	1 x Furuno FR 1510 MK3
X-Band Radar 3cm ARPA28	1 x Furuno FAR 2117
Auto Pilot	Raytheon Anschutz Pilotstar D
Magnetic Compass Class A	2 x Cassens & Plath Reflecta1
GPS	Furuno GP-150
Echo Sounder	Furuno FE-700
AIS	Furuno FA-150
Navtex	Furuno NX-700B
Weather Fax	Furuno FAX-408
Anemometer	1 x Raymarine ST60+
Doppler Speed Log	Furuno DS-80

BRIDGE COMMUNICATION & MON	IITORING EQUIPMENT
IMMARSAT B + C Comm	Furuno +FELCOM-15
Marine SSB Radio system	Furuno FS2571C
VHF RADIO + DSC	2 x Furuno FM-8800
Portable VHF (GMDSS)+battery	3 set SART
EPIRB 406 / 121.5 mhz	McMurdo E5
GMDSS (Area 3)	Furuno RC-1500T 1 T
Portable VHF Radio	2 x YAESU ICOM GM-1500
Towing & Anchoring Handling	Rolls Royce AHT Control panel
Bulk Handling System	Fitted
CCTV surveillance system	Anchor Handling & Bridgewatch
PA System / Sound Telephone	VINGTOR ACM-M36 250W / VSP
BNWAS System	Fitted
Multi Gas Detector system	Fitted
V-SAT Ku Band Intellian V85 with	1024/ 512 MIR 128/64 CIR

FIRE FIGHTING CAPABILITY - ABS	S FIFI CLASS 1
Main Ship Fire Pump	1 x 75m3/h @90m head
Emergency Fire Pump	1 x 60m3/h @70m head
Water / Foam Monitor	2 x 1200m3/h @160m Throw
External FiFi Pump	2 x 1500m3/h @14bar
FOAM Mixer /Capacity	13m3
Water Curtain Spray System	Accommodation & main deck
Fixed Fire Fighting CO2 system fo	r machinery system
Fire Detection & Alarm Control	Fitted

LIFE SAVING AND STANDBY	RESCUE CAPABIITY
Fitted in Compliance with IMC	) SOLAS (1974) Approved
WME-SAD14 SWL 1.35TE We	st Marine Single arm davit for MOB/FRC
Fast Rescue Craft FRC	6 Pax FRP boat JY45KR OB Mercury 25 hp
RESCUE ZONE	2 Zones

ANTI POLLUTION CAPABILITY		
Dispersant Pump / Capacity	Fitted	
Dispersant Spray Boom 6 Mtr	2 Set	
Emergency Anti Pollution Kit	1 set	

Accommodation for 42 Persons	4 x 1-berth, 3 x 2-berth, 8 x 4 Berth			
15 Cabins w Ensuite Bathroom	Ship Office, Hospital, Meeting room			
Galley, Mess Room, Recreation Room				
2 x Refrigeration fitted Cold Room , 1 x dry provision store				
Laundry Room and Workwear PPE Changeout Zone				

ENVIRONMENTAL IMO MARPOL COMPLIANCE		
15-ppm Oily Water Separator FORWIN ZYFM(NJ)-1 1.0M3/HR		
Sewage Treatment 1 x 50 pax Jiangsu Nanji WCB-50		
RO Water Maker 1 x 5t/day Peter Taboada SW-Y 30/52		
Anti Air Pollution Engines Exhaust System		
Bulk Cargo load/discharge station spill containment		

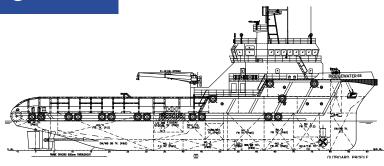


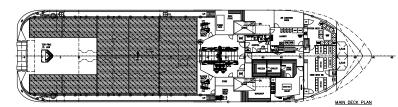
#### BRIDGEWATER 68 5150 BHP 60M AHTS FIFI 1

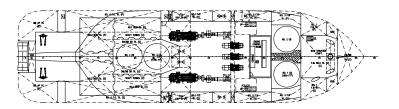


### 5150BHP 65TBP FiFi 1 Anchor Handling Tug Supply Standby Escort & Rescue Tug

- ▶ 5,150 BHP (3840kw) Controllable Pitch Propulsion
- ▶ 60 MT to 70 MT Estimate Bollard Pull
- > 390Kw Kawasaki 6te Bow thruster
- ▶ Fuel Capacity 550 M3 approx.
- Potable Water 360 M3 approx.
- Drillwater 400M3 approx.
- Cement Bulk 187 M3 approx.
- Liquid Mud 413 m3 approx.
- Clear Deck 360 M2 / 500te Deck Cargo
- Deadweight Cap 1,360 MT
- Fire-Fighting FiFi Class 1
- Anti Pollution Oil Spill Response
- Environmental IMO Compliance
- V-SAT Ku Band Intellian V85
- CCTV Surveillance System equipped
- Accommodation for 42 Persons
- ▶ 15 Cabins w Ensuite Bathroom
- 4 x Single berth; 3 x double Berth; 8 x 4 berths
  - Hospital Cabin & Ship Office
  - Galley, Mess Room, Recreation Room
  - Laundry & PPE Change Out Zone



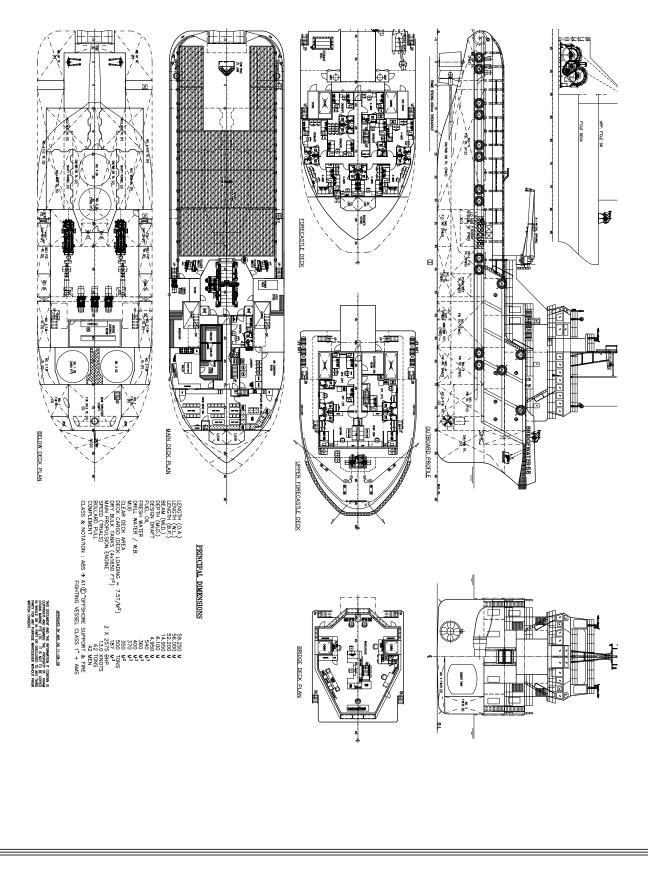






#### **BRIDGEWATER 68** 5150 BHP 60M AHTS FIFI 1

#### **General Arrangement**





#### MAIN PARTICULARS

MAIN FANTICOLANS			
Vessel Name	BRIDGEWATER 68		
IMO No.	9425588	9425588	
Year Built	2007-06		
Place Built	FUJIAN SOUTH EAST SHIPYARD, CHINA		
Port - Flag Registry	PORT KELANG, MALAYSIA		
Callsign / Official No	9MFE2 / 332372		
GRT / NRT	1678 / 503		
Class Notation BV			
	Offshore Support Vesse Unrestricted Navigation	I(E)∯AMS	
	onicothotea nangation		
DIMENSIONS			
Length - OA		59.30 M	
Length - BP	52.20 M		
Breadth - Moulded		15.0 M	
Depth - Moulded		6.10 M	
Draft - Moulded	4.95 M		
Displacement / Deadweight		2897.5 tonnes / 1356 tonnes @4.95m approx	
Deck cargo capacity	500 tonnes approx		
Main Cargo Deck ( L x B )	27.5M X 12.4M	340 M2 approx	
Deck Strength	7.5 Tonnes /M2		
BULK CAPACITIES		TRANSFER RATE	
Fuel Oil	540 m3	1 x 150 m3/h @75m head	
Potable Water	373 m3 approx	1 x 100 m3/h @75m head	
Drill Water / Sea water Ballast	396.6 m3 approx	1 x 100 m3/h @75m head	
Liquid Mud / Brine / Base Oil	413 m3 approx	2 x 75m3/h @75m head	
Dry bulk (4 tanks x 1,650cuft)	186.9 m3	2 x 13.0 m3/h @80psi	
Detergent ( Oil Polution )	13 m3 approx		
Foam (Fire fighting)	13 m3 approx		
Dirty Oil Tk / Bilge Oil Tk	6.5 m3 / 6.5 m3 each		
MACHINERY			
	2 x 1021/m/(2E7EDLID)@1		
Main Engine Propulsion		600rpm CAT3516B-HD Engine	
	BERG BCP690 CPP Prop		
Bow Tunnel Thruster FPP	1 x 390kw Kawasaki KT-	55B3 6.0 t thruster	
Auxilliary Diesel Generator	3 x 350kw CAT C18 450	V/3P/50Hz	
Shaft Generator	2 x 450kw Leroy Somer L	SAM471L11 440V/3P/50Hz	
Emergency Generator	1 x 65 kw/450V/3P/50H	z Perkin Generator	
ANCHOR HANDLING TOW	NG EQUIPMENT		
Bollard Pull	60 t - 72.8 t approximately		
Anchor Handling Towing Winch	Electro Hydraulic Double	Electro Hydraulic Double drum MEP-AHTW/WF-150-200	
Line Pull Capacity	150 tonnes @ 1st layer		
Brake Holding Capacity	200 tonnes @ 1st layer		
Towing Drum Capacity	Wire diameter 56mm x 10	Wire diameter 56mm x 1000 m length	
Anchor Handling Drum	Wire diameter 56mm x 1	000 m length	
Storage Reel w/spare wire	Wire diameter 56mm x 1	Wire diameter 56mm x 1000 m length	
Storage Reel w/spare wire	Pendant wires & 300m v	Pendant wires & 300m work wire dia 56mm	
Hydraulic Bollard	2 x Triplex P-150 Quick I	2 x Triplex P-150 Quick Release 150Mt	
Towing Pins	1 x Karmfork Retractable SWL 160 tonnes		
Shark Jaws for up to 3.1/2"	1 x Karmfork Retractable SWL 300 tonnes		
Stern roller	5.0m x 1.6m diameter S	5.0m x 1.6m diameter SWL 200 tonnes	
Chain Chaser	1 x 110t J Hook / 1 x 11	0t 4-Prong Grapnel	
DECK MACHINERY AND M			
	-	My 10mm wire	
Tugger Winch		2 X SWL10t MEP-10/25 90Mx 19mm wire	
Capstan Anchor Windless	2 x SWL 5 tonnes MEP-H		
Anchor Windlass	1 x SWL 9t MEP double		
An chief Ohielin	windlass with 2 warping o		
Anchor Chain	2 x dia 38 mm x 220m (17 shackle) anchor chain		
	2 v A014 UUD 1400K	nohor	
Anchor	2 x AC14 HHP 1490Kg a	nchor	

## **BRIDGEWATER 68**

5150 BHP 60M AHTS FiFi 1

OWNER / MANAGER	RUHM MAZU SDN BHD		
	www.kimheng.com.sg		
	enquiry@kimheng.com.sg		
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Anti Air Pollution Engines Exhaust System

Bulk Cargo load/discharge station spill containment



















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