



About the vessel

The MMA Crystal is a key marine asset for MMA. The vessel has a strong track record in South East Asia and Australasia carrying out various towing and anchor handling scopes and now operates in Taiwan.

The vessel is fitted with 35T A-Frame and working class ROV as well as extensive survey equipment capable of geophysical and geotechnical operations.

MMA Crystal 克里司朵

Anchor Handling Tug Supply and Survey



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General		Dimensions	
Official No	016607	LOA	70.05 m
Call Sign	BHJ J	Breadth - moulded	17 m
IMO No	9594212	Depth - moulded	7.5 m
Year Built	2012	Draft	6.1 m
Port of Registry	Tai Chung (台中)	GRT	2,763 T
Flag	Taiwan	NRT	829 T
Class	Republic of China	Deadweight	2,515 T
Class (Secondary)	American Bureau of Shipping	Free Deck Area (A-Frame fitted)	275 m ²
Notation	✱A1, Offshore Support Vessel (AH), Fire Fighting Vessel Class 1, Towing Vessel, ✱AMS, ✱DPS-2	Free Deck Area (A-Frame removed)	450 m ²
		Deck Strength	7.5 T/m ²
		Mezzanine Deck	84 m ² @ 2T m ² / W 12m x L 7m

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A PERFECT DAY EVERY DAY



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Performance		
BHP	BHP	7,965
Speed - Maximum	Knots	14
Speed - Economical	Knots	10
Bollard Pull	T	102.14
Tank Capacity		
Fuel Oil	m ³	698.7
Fresh Water	m ³	514.1
Potable Water	m ³	514.1 (same to FW)
Foam	m ³	15.7
Ballast Water	m ³	1,336.4
Liquid Mud	m ³	382
Cement	m ³	200
Dispersant	m ³	15.7
Dry Bulk	m ³	(Refer to Cement)
Methanol	m ³	NA
Discharge Rates		
Fuel Oil	1 x 117 m ³ /hr @ 80 m head	
Fresh Water	1 x 120 m ³ /hr @ 90 m head	
Ballast / Drill Water	1 x 120 m ³ /hr @ 90 m head	
Potable Water	1 x 120 m ³ /hr @ 90 m head	
Dry Bulk	2 x 20 m ³ /hr @ 5 bar	
Liquid Mud / Brine	2 x 75 m ³ /hr @ 95 m head	
Machinery / Propulsion		
Main Engines	2 x MAK 9M25, 2,970 kW	
Bow Thruster	2 x 600 kW tunnel type	
Stern Thruster	1 x 600 kW tunnel type	
Shaft Generators	2 x 1,800 kW	
Generators	2 x Volvo Penta D12 MG, 370 kW	
Emergency Generators	1 x 99 ekW @ 1,800 rpm	
Propulsion	2 x CPP	
Power Supply Details	440 V / 60 Hz	
Deck Equipment		
Crane	PALFINGER Hyd Deck Crane PTM 400 (2 T @ 12m / 5.9 T @ 2.2m)	
Capstan	2 x Electrohydraulic Brattvaag	
Towing Winch	1 x Rolls Royce Electro Hydraulic Waterfall	
Capacity	200 T @ 0-10 m/min	
Wire Capacity	58 mm x 1400 m	
Brake Holding	250 T	
Anchor Handling Winch	1 x Rolls Royce Electro Hydraulic Waterfall	
Capacity	200	
Wire Capacity	76 mm x 800 m	
Brake Holding	250 T	
Shark Jaw	1 x 300 tonne Karmfork	
Towing Pin	2 x 300 tonne Karmoy	
Tugger Winch	2 x 12 tonne Hydraulic	
Wire Capacity	24mm x 220 m	
Brake Holding	15 T	
Stern Roller	2.2 m x 4.8 m (250 tonne capacity)	
Deck Voltage & Sockets - Quantity & Voltage	2 x 440V, 2 x 220V	
A-Frame		
SWL	35 T	
Height (underside cross member)	11.7 m	
Reach outboard	4 m	
Rescue Boat & Fire Fighting		
Rescue Boat	1 x 6 person Neuvisa RR-40 RB	
FiFi Class	Class 1	
Dynamic Positioning		
DP - System	MT Class II DYNPOS / DP2	
DGPS - Quantity	2 x Fugro	
Fanbeam - Quantity	1 x Cyscan	
HiPAP	Sonardyne Ranger2 (HPT5000)	
Accommodation		
Cabin (2 Berth)	Qty 18	
Cabin (Single Berth)	Qty 10	
Total Accommodation	46 Pax	
Communication Equipment		
Navtex Receiver	Qty 1	
AIS	1	
Watch Alarm	1	
SSB	1	
Intercom	1	
Inmarsat-C	2	
EPIRB	1	
GMDSS VHF Radio (MF/HF)	2 x VHF, 1 x MF/HF	
GMDSS Handheld VHF	3	
Subsea / ROV Equipment		
Bridge Survey Room	1 (online navigation)	
Forecastle Deck Survey Rooms	2 (1 x client, 1 x survey)	
ROV	Swift10 Work Class ROV system	
	Quinsey Survey Navigation System	
	2 x Veripos LD8 DGNSS	
	Sonardyne Ranger	
	2 USBL for subsea acoustic tracking	
	Teledyne Meridian Surveyor Gyro Compass	
	Over the side pole for multi-sensor options	
	Intellian V130NX VSAT	
	Robustal R2000-EL42 4G Modem	
	Clear Comms	
Survey		
Communications		
Navigation Equipment		
Magnetic Compass	Qty 1	
Gyro Compass c/w Autopilot	3	
GPS Navigator	1	
Radar	2	
Speed Log	1	
Other Equipment		
Water Maker	2 x 5 m ³ /day	

TRANSFORMING THE WAY MARINE SERVICES ARE DELIVERED