



About the vessel

The MMA Crystal is a key marine asset for Cyan. 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



Contact Cyan Renewables

Australia

Perth Office

Level 10
12-14 The Esplanade
Perth WA 6000

Ph: +61 8 9431 7431

South East Asia

Singapore Office

9 Raffles Place, #15-02
Republic Plaza
Singapore 048619

Ph: +65 6265 1010

United Kingdom

Aberdeen Office

Ground Floor, The Exchange 1
62 Market Street
Aberdeen
United Kingdom, AB11 5PJ

Ph: +44 1224 659950

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

cyanrenewables.com

A Perfect Day Every Day



MMA Crystal 克里司朵

Anchor Handling Tug Supply and Survey



Performance			Machinery / Propulsion		A-Frame		Subsea / ROV Equipment	
BHP	BHP	7,965	Main Engines	2 x MAK 9M25, 2,970 kW	SWL	35 T	Bridge Survey Room	1 (online navigation)
Speed - Maximum	Knots	14	Bow Thruster	2 x 600 kW tunnel type	Height (underside cross member)	11.7 m	Forecastle Deck Survey Rooms	2 (1 x client, 1 x survey)
Speed - Economical	Knots	10	Stern Thruster	1 x 600 kW tunnel type	Reach outboard	4 m	ROV	Swift10 Work Class ROV system
Bollard Pull	T	102.14	Shaft Generators	2 x 1,800 kW	Rescue Boat & Fire Fighting		Survey	Quinsey Survey Navigation System
Tank Capacity			Generators	2 x Volvo Penta D12 MG, 370 kW	Rescue Boat			2 x Veripos LD8 DGNSS
Fuel Oil	m³	698.7	Emergency Generators	1 x 99 ekW @ 1,800 rpm	FiFi Class			Sonardyne Ranger
Fresh Water	m³	514.1	Propulsion	2 x CPP	Dynamic Positioning			2 USBL for subsea acoustic tracking
Potable Water	m³	514.1 (same to FW)	Power Supply Details	440 V / 60 Hz	DP - System		Communications	Teledyne Meridian Surveyor Gyro Compass
Foam	m³	15.7	Deck Equipment		DGPS - Quantity			Over the side pole for multi-sensor options
Ballast Water	m³	1,336.4	Crane	PALFINGER Hyd Deck Crane PTM 400 (2 T @ 12m / 5.9 T @ 2.2m)	Fanbeam - Quantity			Intellian V130NX VSAT
Liquid Mud	m³	382	Capstan	2 x Electrohydraulic Brattvaag	HiPAP			Robustal R2000-EL42 4G Modem
Cement	m³	200	Towing Winch	1 x Rolls Royce Electro Hydraulic Waterfall	Accommodation		Navigation Equipment	Clear Comms
Dispersant	m³	15.7	Capacity	200 T @ 0-10 m/min	Cabin (2 Berth)	Qty 18		Magnetic Compass
Dry Bulk	m³	(Refer to Cement)	Wire Capacity	58 mm x 1400 m	Cabin (Single Berth)	10		Gyro Compass c/w Autopilot
Methanol	m³	NA	Brake Holding	250 T	Total Accommodation	46 Pax		GPS Navigator
Discharge Rates			Anchor Handling Winch	1 x Rolls Royce Electro Hydraulic Waterfall	Communication Equipment		Other Equipment	Radar
Fuel Oil	1 x 117 m³/hr @ 80 m head		Capacity	200	Navtex Receiver			Speed Log
Fresh Water	1 x 120 m³/hr @ 90 m head		Wire Capacity	76 mm x 800 m	AIS			
Ballast / Drill Water	1 x 120 m³/hr @ 90 m head		Brake Holding	250 T	Watch Alarm			
Potable Water	1 x 120 m³/hr @ 90 m head		Shark Jaw	1 x 300 tonne Karmfork	SSB		Water Maker	
Dry Bulk	2 x 20 m³/hr @ 5 bar		Towing Pin	2 x 300 tonne Karmoy	Intercom			
Liquid Mud / Brine	2 x 75 m³/hr @ 95 m head		Tugger Winch	2 x 12 tonne Hydraulic	Inmarsat-C			
			Wire Capacity	24mm x 220 m	EPIRB			
			Brake Holding	15 T	GMDSS VHF Radio (MF/HF)			
			Stern Roller	2.2 m x 4.8 m (250 tonne capacity)	GMDSS Handheld VHF			
			Deck Voltage & Sockets - Quantity & Voltage	2 x 440V, 2 x 220V				

Note - vessels can be modified to meet specific charter requirements. Cyan encourages clients to contact the vessel operations team to confirm vessel particulars are accurate.

where blue meets green