



### About the vessel

The MMA Monarch operates predominately for our clients in the South East Asia region and has a strong track record operating in Malaysia. The vessel is an ideal asset for anchor handling scopes, ocean towing and general supply requirements.

The vessel's dynamic positioning provides ideal manoeuvrability for working alongside offshore facilities and its cargo capacity provides reliable supply support.

## MMA Monarch

Anchor Handling Tug Supply



### Contact Cyan Renewables

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General		Dimensions	
Official No	900029	LOA	75.4 m
Call Sign	9WNB4	Breadth - moulded	16.8 m
IMO No	9494888	Depth - moulded	7.5 m
Year Built	2010	Draft	5 m
Port of Registry	Labuan	GRT	2,952 T
Flag	Malaysia	NRT	885 T
Class	American Bureau of Shipping	Deadweight	2,193 T
Notation	✕A1, Towing Vessel, Fire Fighting Vessel Class 1, Offshore Support Vessel AH, (E), ✕AMS, ✕ACCU, ✕DPS-2, BP 157.12 tonne	Free Deck Area	515 m <sup>2</sup>
		Deck Strength	7.5 T/m <sup>2</sup>

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A Perfect Day Every Day



# MMA Monarch

## Anchor Handling Tug Supply



Performance		
BHP	BHP	12,069
Speed - Maximum	Knots	14.8
Speed - Economical	Knots	12
Bollard Pull	T	157.12

Tank Capacity		
Fuel Oil	m <sup>3</sup>	1,263
Fresh Water	m <sup>3</sup>	430
Potable Water	m <sup>3</sup>	430 (same as FW)
Foam	m <sup>3</sup>	7.5
Ballast Water	m <sup>3</sup>	431
Liquid Mud	m <sup>3</sup>	516
Cement	m <sup>3</sup>	226
Dispersant	m <sup>3</sup>	7.5
Dry Bulk	m <sup>3</sup>	(refer to cement)

Discharge Rates		
Fuel Oil	1 x 200 m <sup>3</sup> /hr @ 90 m head	
Fresh Water	1 x 150 m <sup>3</sup> /hr @ 90 m head	
Ballast / Drill Water	1 x 200 m <sup>3</sup> /hr @ 90 m head	
Potable Water	1 x 150 m <sup>3</sup> /hr @ 90 m head	
Dry Bulk	2 x 20 m <sup>3</sup> /hr @ 5.5 bar	
Liquid Mud / Brine	2 x 75 m <sup>3</sup> /hr @ 90 m head	

Machinery / Propulsion	
Main Engines	2 x Wartsila 9L32, 4,500 kW
Bow Thruster	2 x 600 kW
Stern Thruster	1 x 600 kW
Generators	2 x 410 kW Caterpillar
Emergency Generator	1 x 76 ekW @1,800 rpm
Propulsion	2 x CPP

Deck Equipment	
Crane	North Pacific MCT 1040 (2.2 T @ 12.2 m, 5.9 T @ 6m)
Capstan	2 x 10 tonne Electro Hydraulic Brattvaag CM4110
Towing Winch	1 x Rolls Royce Brattvaag SL300W / BSL300W Waterfall
Capacity	300 T @ 15 m/min
Wire Capacity	76 mm x 2000 m
Brake Holding	450 T
Anchor Handling Winch	1 x Brattvaag SL300W / BSL300W
Capacity	300 T @ 15 m/min
Wire Capacity	73 mm x 2000 m
Brake Holding	450 T
Shark Jaw	2 x 650 tonne Karmoy
Towing Pin	2 x 300 tonne Karmoy
Tugger Winch	2 x 10 tonne Hydraulic
Wire Capacity	22 mm x 200 m
Brake Holding	15 T
Stern Roller	4.5 m x 2.3 m (500 tonne capacity)
Deck Voltage & Sockets - Quantity & Voltage	2 x 440 V, 4 x 230 V

Rescue & Fire Fighting	
FRC	1 x 6 person Narwhal SV-480 RB
FiFi Class	Class 1

Dynamic Positioning	
DP - System	DP-2
DGPS - Quantity	2
Fanbeam - Quantity	1 x Fanbeam

Accommodation	
Cabin (6 Berth)	Qty 4
Cabin (2 Berth)	8
Cabin (Single Berth)	10
Total Accommodation	50 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

Navigation Equipment	
Magnetic Compass	Qty 1
Gyro Compass c/w Autopilot	1
GPS Navigator	1
Radar	1
Speed Log	1

Other Equipment	
Water Maker	10 m <sup>3</sup> /day