

Z-TECH 5000 ASD TUG – PSA POLARIS

TUGBOATS



PRINCIPAL PARTICULARS

Year Built	: 2018
Builder	: Cheoy Lee Shipyards Ltd
Designer	: Robert Allan Ltd
Class	: Lloyd's Register of Shipping +100A1 Tug, + LMC, UMS,*IWS Singapore Coastal Services up to 30 nautical miles from shore
Flag	: Singapore
Call Sign	: 9V5829
IMO No.	: 9830197
Official No.	: 401426

DIMENSIONS

Length overall	: 27.40m
Breadth moulded	: 11.50m
Depth moulded	: 5.03m
Design Draft	: 4.60m (from baseline)
Navigational Draft	: 5.25m (max)
Gross Tonnage	: 333
Net Tonnage	: 99

MACHINERY & EQUIPMENT

Main Engines	: 2 x 1530kW Yanmar 6EY26W @ 750rpm
Generators	: 2 x 96kW Perkins E70TAG1M @ 1500rpm
Propellers	: 2 x Schottel SRP360 FP
Air compressors	: 2 x Sperre HL/77A
Oily water separator	: Taiko Kikai USH-05
Sewage system	: Taiko Kikai SBH-15
CCTV system	: HIKVISION with 8 cameras
Ultrasonic anti-fouling	: Soni 8

ACCOMMODATION (FULLY AIR-CONDITIONED)

Officers	: 2 x1 berth
Crew	: 2 x 2 berths
Total	: 6 berths (MLC 2006 compliance)
Air-con system	: Cruisair (chilled water type)

PERFORMANCE DATA

Max speed	: 12.50 knots	12.50 knots
Bollard pull	: 52.00 tonnes	54.30 tonnes
(ahead)	: 46.10 tonnes	52.50 tonnes

TANK CAPACITIES

Fuel oil	: 112.0m ³
Freshwater	: 25.0m ³
Ballast (FW) aft	: 61.0m ³

TOWING AND DECK EQUIPMENT

Fwd Tow winch	: MacGregor MG-HTW1-*513U02276x2 hydraulic single split drum type
Drum capacity	: 220m x 76mm dia synthetic rope (working drum) 220m x 76mm dia synthetic rope (standby drum)
Brake Holding (up-coil)	: 125 tonnes (static, 1 st layer – working drum)
Brake Holding (down -coil)	: 30 tonnes (static, 1 st layer – standby drum)
Line pull (slack)	: 1.0T @ 0~40m/min
Anchor winch (aft)	: MacGregor MG-HNW1-*302U01424 Hydraulic single drum (up-coil)
Drum capacity	: 140m x 24mm dia SWR + 15.2m x 19mm dia chain
Deck crane	: Palfinger PK11001M SWL – 1.7.0t @ 6m outreach

RADIO AND NAVIGATIONAL EQUIPMENT (GMDSS – A1)

Radar	: Furuno M-1945
VHF transceiver	: Furuno FM-8900S w/ DSC
GPS/ Plotter/Echo Sounder	: Furuno GP-1870F
Portable VHF GMDSS	: 2 x Cobham SP3540
Navtex receiver	: Furuno NX-700A/B
EPIRB	: McMurdo E5
SART	: McMurdo S5
Loudhailer system	: Furuno LH-3000
Wireless 4G LTE router	: TP-Link AC750
VHF (private channel)	: Motorola GP328
Magnetic compass	: Saura Keiki T-150
Satellite compass	: Furuno SC-50
Battery-less Telephone system	: Jotron BTS 4000
AIS	: Furuno FA-170
GPS	: Furuno GP-32
BNWAS	: Furuno BR-500

Note: The information and sketches in this document are given in good faith without any express, implied or statutory warranty or condition.

