

SWIWAR SURYA

10,800 BHP DP2 FiFi 1 Anchor Handling Tug/ Supply



GENERAL SPECIFICATION

General Particulars

Year Built	2010
Flag	Singapore
Class	ABS
Notation	✕ A1 (E), ✕ AMS, Towing Vessel, Offshore Support Vessel, FiFi Class 1, DPS-2

Principal Dimensions

Length Overall	70.00m
Length Waterline	66.46m
Length between perpendicular	61.80m
Breadth Moulded	16.80m
Depth Moulded	7.50m
Design Draft	6.10m
GRT / NRT	2,708T / 812T

Machinery & Propulsion

Main Engine	2 x 4,000kW @ 750rpm, Wartsila 8L32
Main Propulsion	2 x CPP
Main Generator	2 x 383kW, 415V/3ph/50Hz @ 1,500rpm, Caterpillar C18
Shaft Driven Alternator	2 x 1,600kW @ 415V/3ph/50Hz
Emergency Generator	1 x 65kW @1500rpm, Caterpillar C4.4
Bow Tunnel Thruster	2 x 9 Tons controllable pitch
Stern Tunnel Thruster	1 x 9 Tons controllable pitch type

Performance & Consumption

Bollard Pull	135 Tons
Maximum Speed	14 Knots
Fuel Consumption with tow condition	21.13 Tons/day
without tow condition	16.90 Tons/day
Deck Strength	7.5 Ton/m ²
Clear Deck Area	450m ²

Deck Machinery

Towing Winch	1 x Brattvaag towing/anchor handling winch waterfall type, S1300W/BSL300W
Tow Drum	Ø900mm x Ø2,650mm x 2,500mm length
Gypsies suitable for Brake Holding Load	From Ø64mm to Ø120mm 450 Tons, 1 st layer
Tugger Winch	2 x 10 Tons pull @ 0-32m/min, Brattvaag
Windlass	1 x 14 Tons pull @ 0-17m/min, Brattvaag
Stern Roller	1 x Ø2.3m x 4.65m length @ SWL 500MT
Tow Pin/ Shark Jaw	1 set 400 Tons, Karmoy
Capstan	2 x Rolls-Royce
Crane	1 x 5T @ 15m

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Accommodation

10 x 1 man cabin	10 men
15 x 2 men cabin	<u>30 men</u>
	<u>40 men</u>
Hospital	1 man

DP System

	ConverTeam DP2
Gyrocompass	3 x Raytheon, STD.22
Wind Sensors	3 x Gill Instruments/ WindOsberver II
DGPS	3 x Veripos, LD3-G1
VRU	1 x TSS DMS, RP-30
Position Reference	1 x CyScan Mk 20

Tank

	Capacity	Discharge rates
Fuel Oil	1,245m ³	1 x 150m ³ /hr @ 75m head
Fresh Water	360m ³	1 x 150m ³ /hr @ 75m head
W.B./D.W.	440m ³	1 x 150m ³ /hr @ 75m head
Liquid Mud/ Brine	490m ³	2 x 75m ³ /hr @ 75m head
Dry Bulk/ Cement	226m ³	1 x 18m ³ /min @ 80 psi
Base Oil	105m ³	1 x 61m ³ /hr @ 90m head
Detergent	20m ³	
Foam	20m ³	

GMDSS System

GMDSS System	1 x Furuno, RT-1800T 150W for Area A1/A2/A3
EPIRB	1 x Mcurdo, E3
SART	2 x Mcurdo, S4
Navtex Receiver	1 x Furuno, NX-700
Portable VHF Radio	2 x Icom, GM-1500

Navigation Equipment

S-Band Radar	1 x Furuno, FAR-2137
X-Band Radar	1 x Furuno, FAR-2117S
Echo Sounder	1 x Furuno, FE-701
Doppler Speed Log	1 x Furuno, DS-80
Weather Facsimile Receiver	1 x Furuno FAX-408
GPS	1 x Furuno, GP-150
Magnetic Compass	1 x Saura, MR-150
Autopilot	1 x Raytheon, NP-2015
PA System	1 x Vingtor, 250W
AIS	1 x Furuno, FA-1502

Fire Fighting/ Extinguishing System

Meet FiFi Class 1 with water spray curtain	
External FiFi Pump	2 x FFS/ Scanpump, SFP 250x350 HD Hydrakit
Capacity	1,744m ³ /hr @14 bar
Fire Monitor	1 x FFS, FFS1200/300LB Dual Flow
	1 x FFS, FFS1200LB
Throw length	120m @ 12 bar
Emergency Fire Pump	1 x Itur, 35m ³ /hr @ 4.5 bar

Life Saving/ Rescue Equipment

SOLAS Compliant

Miscellaneous/ Others

Fresh Water Maker	1 x Sea Recovery, Coral Sea 2800, 10T/day, Reverse Osmosis
Sewage Treatment Plant	1 x 50Pax, Taixing
Oily Water Separator	1 x 1m ³ /hr @ 15ppm, Taiko Kikai

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