



向陽山號 Sunny Bright Offshore Support Vessel (OSV)



Key Features

台灣籍

CR & BV 雙船級

Hybrid 油電混合工作船

省油與低噪音

台灣最大海洋測繪與 ROV 支援船

具備動態定位系統 DP1

Specification

**All product descriptions and specifications are subject to be changed without notice

General Information

Name.....Sunny Bright
Flag.....Taiwan
Year.....2013
Port registry.....Taichung Port
Call sign.....T2SN5
IMO number.....9668520
MMSI.....210759000
Vessel type.....Offshore Support Vessel
Class.....CR+BV

Diemensions

Length overall.....53.80m
Breadth moulded.....13.00m
Depth.....6.30m
Max./Design draft.....4.80m/4.00m
Deadweight (approx @ max draft).....1,360mt
Gross/Net tonnage.....1,358 /407
Bollard Pull @diesel-mechanicle mode.....40mt
Bollard Pull @boost mode.....50mt

Capacities

Deck area: (5 mt/m2).....(2,300x1,020m)approx. 230m2
Max. deck cargo.....205mt
Domestic MDO: (@97%).....276m3
Cargo MDO.....950m3
Fresh water.....121m3
Ballast water.....519m3
Lub oil.....10m3
Thermal oil.....4m3
Cargo slops.....10m3

Delivery Rates

Cargo MDO.....2x 200 m3/h at 60m
Cargo fresh water.....50 m3/h at 60m
Ballast / Fire pump.....75 m3/h at 50m
Bilge system.....75 m3/h at 50 m
*Main cargo fuel oil tanks equipped with heating system to accept optional charterer supplied, plug and play 500 kW thermal oil heater (capable of heating 895 m3 HFO from 35°C to 50°C in less than 72 hours).

Accommodations

Accommodations for.....30 pers. (including 12 passengers)
Single cabins.....2
2 man cabins.....8
4 man cabins.....3
1 sickbay cabin.....1
*Mess room, laundry, galley, dry provisions, freezer & cargo reefer rooms (+4°C & -21°C), stores, crew changing, seismic recording room, fully air-conditioned.

Machinery / Performance

Propulsion-Machinery

Main diesel engines.....2x1,575bhp
Auxiliary diesel generators.....3x550kw
Eletric motor plant.....2x350kw
Main propulsion.....2x Hybrid propulsion package on CP propellers
Bow tunnel thrusters.....2x 300kW
Emergency generator.....1x 95kW

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Equipment & Electronics

Deck Equipment

Windlass.....1x 10 mt pull @ 11m/mn
 Capstan (2 variable speeds).....5 t @ 15m/mn & 10 t @ 10m/mn
 Towing hook.....70t SWL
 Knuckle boom deck crane (electro-hydraulic).....3 mt @12 m
 Davit for Workboat.....10 t lifting capacity @ 30m/mn
 A-frame.....10t

Safety Equipment

- Life saving arrangement, 6 liferafts with capacity 12 pers.
- 1 fast rescue boat (6 pers) outboard engine 25 hp with davit.

Electronics-Navigation

- 2 Radars with ARPA, 1 DGPS, 1 Gyrocompas, 1 Magnetic compass, 1 Autopilot, 1 Echo sounder, 1 Speed log, 1 ECDIS, loading software.

Electronics-Communication

- 1 radio system compliant with GMDSS A3 rules:
- 2 VHF, 2 Inmarsat C, V-Sat, MF radio system, Navtex with printer,
- weather fax, AIS.
- 1 EPIRB, 1 Fleet broadband 500, 1 Inmarsat mini-C, 2 VHF, 2 UHF.
- 4 portable UHF, 3 portable VHF, Intercom & Public address system.

Special Equipment

- Fuel hose storage reel: 180 m of 4 " hose cap.
- Storage winch for In-line bunkering distance line:120m of polypropylene line capacity
- Blister and moonpool for seismic instruments, storage reel cradles, basket for towing rope (200m of 80mm/ MBL 137 t), TS DIP winch
- Yokohama Fenders: 2x of 2.00m dia x 4.00m length & 2x of 1.00mdia x 2.00m length
- Streamer winch power supply: 440 V, 3P, 250 A, 60 Hz
- Main deck pre-structured to receive foundation for streamer winch based on 20' ISO container (weight: 40 t)
- Reefer sockets for containers
- Optional Survey pole: able to deploy the survey equipment
- Optional Survey room: Monitor, online survey software
- Optional Survey gears: Sonar, Sensors, Gyro, DGPS, INS



ROVs, Subsea Connector
 Subsea Component
 Offshore Wind Farm BoP
 Construction Support
 Vessel Chartering

Taichung HQ

TEL: +886-4-3502-4890
 Email: info@dwtek.com.tw
 Website: www.dwtekmarine.com

Taipei Office

TEL: +886-2- 2726-2868

