

DSV Challenger

Diving support and construction vessel



Purpose-built to very stringent specification

One-of-a-kind and a highly compliant asset in the eastern hemisphere, meeting a variety of client and geographic requirements

- DP 2/SPS/Clean design
- 100 t/2000m AHC offshore crane
- 12-man in-built saturation and air diving arrangements
- 800m² deck
- Four point mooring system
- 105 accommodation

Primary activities

- ◆ Subsea construction and installation work
- ◆ Diving support operations, saturation and air diving
- ◆ Subsea inspection, repair and maintenance works
- ◆ Light trenching support
- ◆ Survey and ROV operations

GENERAL INFORMATION

Classification	DNV, 1A1, SF, E0, SPS, DYNPOS-AUTR, DK (+), clean design, recyclable, COMF-V(3) C(3), NAUT-OSV, BWM-T, crane, HELDK, DSV SAT, DSV SURFACE
Build	2017 by VARD
Flagstate	Singapore
Port of registry	Singapore

DIMENSIONS AND CAPACITIES

Length overall	91.20 m
Breadth	21.50 m
Draught (min/max)	5.0 to 6.6 m
Deadweight	3000 t
Gross tonnage	7055 t
Net tonnage	2117 t

DYNAMIC POSITIONING SYSTEMS

DP classification	DP 2
DP system	Kongsberg K POS DP - 21
Reference systems	2 x DPS 700 (differential position system) 2 x taut wires 1 x spot track 1 x HiPAP 3 x anemometers 3 x motion reference units

MACHINERY AND PROPULSION SYSTEMS

Main engines/generators	5 x 1700 kW _e = 8500 kW _e
Emergency generator	1 x 1200 kW
Thrusters	2 x aft azimuth 2200 kW _e each 1 x fwd swing up 880 kW _e 2 x fwd tunnel 880 kW _e each

DECK CRANES

AHC Main crane (1 off)	100 t @ 9.0 m working radius (2 fall), wire capacity 2000 m
Auxiliary winch	10 t @ 32 m (1 fall); 20 t @ 29.5 m (2 fall)
Auxiliary crane (1 off)	10 t at 15 m radius

SPEED/CONSUMPTION PER 24HR

Maximum 12 knots:	28m ³	At anchor:	5m ³
Econ speed 10.5 knots:	20m ³	On DP:	11m ³

COMMUNICATION AND NAVIGATION EQUIPMENT

Communication	Email/Fax/VSAT/F77/ Intercom/PA
Radio	GMDSS, VHF, UHF, AERO VHF
Radar	2
Gyro compass	3
ELDIS	2
Conning stations	2

DIVING SYSTEMS (Built-In)

Single bell 12-man saturation system certified for 300msw. 16,000m ³ @200 bar below deck gas storage
Self-Propelled Hyperbaric Lifeboat (SPHL) for 12 divers + 4 crew (Fits to our onshore HRF)
Surface diving 50msw (twin LARS 2 baskets)

ACCOMMODATION

Total capacity	105 with full AC and TV/ satellite service in all cabins
1-man cabins	25
2-man cabins	40
Mess room	1
Recreation room	1
Offices	2
Gymnasium	1
Workshop	1
Hospital	1

DECK

Clear work area	800 m ²
Deck strength	10 t/m ²

DECK MACHINERY

Windlass	2
Mooring/Anchor winches	4

TANK CAPACITIES

Fuel oil	1321.5 m ³
Freshwater	567.9 m ³
Ballast water	2564.3 m ³
Brine	326.8 m ³
Endurance	36 days

LIFE-SAVING APPLIANCES

Lifeboats	2 with 53 pax capacity
MOB boat	6 pax capacity
Life rafts	4 x 16 pax capacity

MOON POOLS

Diving moon pool	1 unit x 3.9 m x 3.9 m
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HELIDECK

21 m diameter; aluminium pancake for Sikorsky S-92/S61N, to comply with Class HELDK, IMO regulations and UK Civil Aviation Authorities CAP 437; fitted with HMS system.

ROV SYSTEMS

Can be outfitted with two ROVs based on client needs. Current ROVs onboard (2022):

- SMD Quasar
- SeaEye Cougar