Kreuz Challenger
Diving support and construction vessel

Purpose-built to very stringent specifications
One-of-its-kind and a highly compliant asset in the eastern hemisphere, meeting a variety of clients and geographic requirements

- DP 2/SPS/Clean design
- 100 t/2000 m offshore crane
- 12-man in-built saturation and air diving arrangements
- 800 m² 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, DYNOPOS-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 kWe = 8500 kWe
Emergency generator  1 x 1200 kW
Thrusters  2 x aft azimuth 2200 kWe each
1 x fwd swing up 880 kWe
2 x fwd tunnel 880 kWe each

DECK CRANES

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

Economical speed  Maximum 14 knots
Economical speed 10.5 knots

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 SYSTEM

Single bell 12-man saturation system certified for water depth up to 300 m
Self-Propelled Hyperbaric Lifeboat (SPHL) for 12 divers + 4 crew
Surface diving (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 m²
Deck strength  10 t/m²

DECK MACHINERY

Windlass  2
Mooring winches  4

TANK CAPACITIES

Fuel oil  1321.5 m³
Freshwater  567.9 m³
Ballast water  2564.3 m³
Brine  326.8 m³
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

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. Provisions are built in the vessel

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