



TOPAZ CAPTAIN



COTEMAR

REGISTRATION

Year built / builder	2001, Soviknes Yard Norway
Port of registry / flag	Isla del Carmen
Design	UT 745 E
Class	ABS, A1, AMS, ACCU, DPS-2, HELIDK, HLC(2.8, Mud Tanks 2, 3, 4, 5)
Managers	Cotemar

DIMENSIONS

Length overall	92.40 m
Length overall (with helideck)	97.80 m
Breadth moulded	18.80 m
Breadth moulded (with helideck)	23.00 m
Depth main deck	7.60 m
Max draft	6.20 m
Depth to 1st deck	7.20 m
Depth to 2nd deck	5.00 m
Deadweight	3,144.635 t
Registered tonnage	GRT 3992 t / NRT 1308



MACHINERY

Propulsion	6250 bhp – 1x2300kw/1x1300kw@195 rpm, ABB Azipods 5 pull
Main engines	4 x Bergen engines KRGB-9, 1990 KW EACH @ 900 rpm
Bow thrusters	2 x Ulstein 250 TV tunnel thrusters, 883 kw each 1 x Ulstein retractable Azimuth thruster, 883 kw
Main generator	4 x AMG 630 M8, 690 V, 2363 kVA, 60Hz
Emergency generator	2 x Scania DI 14, 350 kw @ 1800 rpm 1 x Stamford Gen.HGM 534 C1, 690 v, 438 kVA
Fresh water maker	2 x 25 m ³ / day, seawater desalination with reverse osmosis
Oily water separator	1 x m ³ / hr, Heli-Sep 1000
Sewage treatment plant	10.5 m ³ / day, AquaMar GmbH
Roll damping system	Passive stabilizing system consisting of 3 tanks

DP EQUIPMENT – REFERENCE SYSTEMS

- 1 x DGPS 1 - Fugro Seastar 9205 GNSS
- 1 x DGPS 2 - Sea STAR 3610
- 1 x DGPS 3 - Fugro Seastar 9205 GNSS
- 1 x RADIUS 1000 Dual System
- 1 de Fanbeam - MDL MK 4.

HELIDECK EQUIPMENT

- Super puma, diameter: 20 m, weight: 9.3 t
- Made of aluminium
- Heli-deck monitoring system: SEC-REC HMS
- Motion system SMC 1MU108

OFF-SHORE SUB-SEA CRANE

Model	1 x TTS Norlift – GPCFO 2500 – 10040
Lifting capacity	1 fall - SWL 50 t @ 6 – 9 m / 1 fall – SWL 18 t @ 6-40 m 2 fall - SWL 100 t @ 6-09 m / 2 fall – SWL 10 t @ 6-38.5 m
Maximum water depth	Single fall (50 t) – 1500 m Double fall (100 t) – 750 m
Hoisting speed with working radius	Single fall light load 70 m / min, full load 25 m / min Double fall light load 35 m / min, full load 12.5 m / min
Anti-heeling system	2 x PG – Bornemann VHC 180, 2-85, Capacity: 250 m ³ / hr @ 2 bar
Personnel lift	TTS 100 t, crane only 4% winch capacity (max 2 t including equipment)



DECK MACHINERY AND EQUIPMENT

Air Supply	5 outlets for working air on deck Air capacity: approx. 125 m ³ / hr @ 8 bar
Electrical power	Deck supply : - 3 PCS CEAG 1 – phase - 16 A / 230V (Eex – ed) - 1PCS CEAG 3 – phase - 32A / 230V (Eex – ed) ROV switchboard: 2 pcs circuit, 650 kVA each, 450 v. 60Hz
Stores crane (portside)	1 x HMC Knuckle jib 1077, SWL 2 t @ 12 m
ROV crane (starboardside)	1 x HMC Knuckle jib 1610 SWL 20 T @ 9 m SWL 15 t @ 12 m
Tugger winches	2 x 10 t @ 15 m / min, make: Brattvaag AKM 4110 SWL 10 t
Anchor windlass	1 x 45 bar pressure for 46 mm (dia) chain, make: Rolls Royce
Capstan	2 x Br. Rogne HP
Anchors	Stockless Bower anchors, 2 x 3300 kg
Anchors chains	Stud – link chain cable, 495 M total (NV, K3, 46 mm)

PERFORMANCE

Max speed	7 knots
Service speed	6.5 knots
Consumption	Maxium speed – 28 m ³ / day Service speed – 20 m ³ / day DP operations – 10m ³ / day At port – 2.5 m ³ / day on main generator or 1 m ³ / day on harbour gen

Oil recovery equipment – The vessel is arranged for oil recovery according to NOFO 2000 with min. 1000 m³ capacity

FULL CAPACITY 100%

Fuel oil	1212 m ³
Fresh water	985 m ³
Water ballast	1840 m ³
Drill water	1639 m ³
Liquid mud	669 m ³
Brine	863 m ³
Base oil @ 90%	203 m ³
Slop	337 m ³
Oil recovery	1012 m ³
Methanol @ 90%	155 m ³
Freezer, cooler and dry provisions	Freezer 18 m ³ , Cooler 25 m ³ and Dry Store 20 m ³
Clear deck area	350 m ²
Deck cargo capacity	2600 t @ 10 t / m ²



TRANSFER RATES

Fuel oil / ORO	1 x PG - Bornemann VHC 180 – 74, 0 – 250 m ³ / hr @ 9 bar
Fresh water	1 x PG – Bornemann VHC 180 – 74, 0 – 250 m ³ / hr @ 9 bar
Water ballast / drill water	1 x PG – Bornemann VHC 180, 2 – 65, 0 -250 m ³ / hr @ 9 bar
Brine	2 x PG – Bornemann VHC 180, 2, 100 m ³ / hr @ 24 bar
Liquid mud	2 x PG – Seepex 70 – 18 BN, 75 m ³ / hr @24 bar
Base oil	1 x PG – Bornemann VHC 147 – 73, 150 m ³ / hr @ 9 bar
Slop	1 x PG -Seepex 70 – 18BN, 75 m ³ / hr @ 24 bar
Methanol	2 x PG – Seepex 50 – 250 AT, 50 m ³ / h, 90 mlc
Pipeline connections	5" type WECO for fresh water, ballast / drill water, fuel oil / ORO, brine, mud, base oil

Avenida Paseo de la Reforma #483 Piso 52
Colonia Cuauhtémoc
Código Postal 06500
Ciudad de México
México
contact@cotemar.com.mx
www.cotemar.com.mx

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