



SATURNO



VESSEL SPECIFICATIONS

Name	SATURNO
Port of Registry	Isla del Carmen
Call Signal	XCNY3
IMO Number	9239599
Flag	Mexico
Year of Build	2001
Name and Nationality of Owner	Cotemar S.A. de C.V., Mexican
Class	DNV-GL 1 A 1 DK (+) DPS(2) EO HL(2.5) Ice (C) SF

POWER GENERATION

The SATURNO is equipped with:

- 2 Stamford type-HC.M734H2 shaft generators, 1600 kVA each
- 2 motor generators with a Volvo Penta TAMD122 diesel engine with a Stamford HCM434F generator
- 1 motor generator with a SISU 320 DGS diesel engine and a Stamford generator

DIMENSIONS

Length	71.90 m
Breadth	16.00 m
Depth	7.00 m
Maximum operating draft	5.81 m
Speed	10 knots
Gross tonnage	2,152 t
Net tonnage	1,097 t
Fuel capacity	1047 m ³
Drinking water capacity	453.8 m ³
Drilling fluid capacity	530 m ³
Brine capacity	100 m ³
Bulk cargo capacity	320 m ³

DP SYSTEM

- Class II dynamic positioning system, Kongsberg Model K-pos 21, C- Joy (independent Joystick)
- The vessel has the following 4 main reference systems: RADius (1), DGPS (2), CySCAN (1)



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PROPULSION

The SATURNO is equipped with:

- 2 main Bergen Diesel KRMB9 engines with 9 cylinders 2005 KW@825 RPM each
- 3 Ulstein propellers: 2 bow thrusters and 1 stern thruster, with 590 KW each

NAVIGATION EQUIPMENT

- 1 GPS, FURUNO
- 2 GYROCOMPASSES, SPERRY MARINE AND 1 ALPHATRON
- 1 MAGNETIC COMPASS
- 1 ECHO SOUNDER, FURUNO
- 1 AIS, FURUNO
- 1 NAVTEX, FURUNO
- 1 RADAR, FURUNO 10 CM EL FAR-2807
- 1 RADAR, FURUNO 3 CM MODEL FR-2115
- 1 GMDSS, FURUNO
- 1 ECDIS ON THE COMMAND BRIDGE, FURUNO FMD-3200
- 1 AUTOMATIC PILOT, SPERRY MARINE ADG3000VT
- 1 UHF RADIO STATION, ICOM
- 2 VHF RADIO STATIONS, ICOM
- 1 VDR, FURUNO VR-7010

MAIN DECK AREA AND RESISTANCE

- Cargo area: 243 m² (excluding mud plant)
- Cargo area: 609 m² (including mud plant)
- Resistance on deck: 5 t/m²

Address

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ACCOMMODATIONS

The SATURNO vessel can accommodate 30 people in 13 cabins, which are distributed as follows:

- 2 Cabins with one bed; 7 cabins with two beds each; 2 cabins with three beds each; and 2 cabins with four beds each
- 1 Mess room for twelve people; 1 TV room for 15 people; 1 changing room with closets

AIR CONDITIONING SYSTEM

Integrated air conditioning system with sufficient capacity to comfortably cover the needs of the entire vessel facilities.

DECK EQUIPMENT

- Anchor and mooring winches: 1 Ulstein Brattvaag, type GS660, 12 t max
- 1 Support winch: 2 Ulstein Brattvaag, type WM 4110, 10 t max
- Deck crane: 1 Hydralift, MCVT 1301, SWL. 3.0-ton capacity

FLUID PROCESSING PLANT

The SATURNO has a mud processing plant to generate and recondition drilling fluids with the capacity to generate 630 m³ of drilling fluid in 7 storage tanks. Each tank has stirrers, an air injection system, and a recirculation system.

WASTEWATER TREATMENT SYSTEM

1 Detegasa Delta Bio Type PR 200 wastewater treatment plant (hydraulic load 2.00 m³/day, organic load 1.10 kg/day).

FOOD GRINDER

1 Adalet food grinder, model XCE 121206 N4, 3 phases 460V; 5 HP, which complies with MARPOL standards 73/78, Exhibit V.

FIREFIGHTING SYSTEM

- 1 Emergency pump and 2 general service pumps
- 1 Fire protection system coupled to the gearbox of the main engines

LIFE SAVING EQUIPMENT

- 1 Rescue boat that fits 6 people
- 6 Life rafts that fit 25 people each
- 4 Life buoys with a light and a short rope: 2 on each sideband, with light-smoke signal buoy (MOB)
- 49 Life jackets: 30 in the cabins, one for each crewmember, and on the bridge, machine control room, upper deck, cabins, and laboratory
- 2 Fully equipped firefighting stations

MEDICAL EQUIPMENT

- 1 Neil Robertson stretcher
- 1 Rescue stretcher
- 1 Ambu resuscitator
- 1 Collar
- 1 Emergency oxygen unit
- 1 Portable defibrillator

COMMUNICATIONS

- The vessel has fixed and portable VHF and UHF equipment
- It also has full Global Maritime Distress Signal System (GMDSS) that is ready for navigation on zones A1, A2, and A3
- The vessel is fitted with a Skyfile satellite mail system (for mail service only)
- Public announcements and emergencies equipment
- Direct intercom (command bridge/control room/machine room)