



HERCULES



COTEMAR

VESSEL SPECIFICATIONS

Vessel Name	HERCULES
Port of Registration	Isla del Carmen
Call Sign	XCUN3
IMO Number	9483047
Flag	Mexico
Year Built	2012
Owner Name and Nationality	Cotemar, S.A. de C.V., mexicano
Class	✠DNV GL 1A1 CLEAN, COMF-V(3), DK(+) DYNPOS-AUTR, E0,HELDK NAUT-OSV(A), SSC

POWER GENERATION

- The vessel is fitted with four Wärtsilä generators (model: 2x W8L26_ 2x W8L20) with a capacity of 2x 2600KW 2x 1480KW @900rpm
- 1 Emergency Volvo Penta generator with a capacity of 189 KW @1800rpm

DIMENSIONS

Length	93.5 m
Breadth	19.7 m
Draft	7.70 m
Operating draft	6.30 m
Speed	10 knots
Gross Tonnage	4,860 tons
Net Tonnage	2,395 tons
Fuel capacity	1,700 m ³
Potable water capacity	630 m ³

DP SYSTEM

HERCULES has a Dynamic Position System class II, Kongsberg K-POS 21, DP Consol Kongsberg/K-pos DP (2), C-Joy and C-Wing (independent joysticks), with reference position systems based on five different principles (1 RADIUS, 2 X DGPS, 1 CySCAN, and 1 HIPAP).



PROPULSION

The vessel is fitted with two azimuthing WARTSILA LIPS FS-275 S/WN, capacity 2 x 2600 Kw @900 rpm thrusters and three tunnel-type KAWASAKI KT – 157 B5, capacity 3 x 1050 Kw @900 rpm thrusters.

NAVIGATION EQUIPMENT

- 2 x GPS JRC Japan radio Co. Ltd
- 3 x Gyrocompasses Sperry Marine
- 1 x Magnetic compass Cassen & Plath GMBH
- 1 x Echo-sounder JRC Japan radio Co. Ltd
- 1 x AIS Furuno
- 1 x Navtex Furuno
- 1 x Radar S Furuno Electric Co. Ltd
- 1 x Radar X Furuno Electric Co. Ltd
- 2 x Ecdis Wärtsilä Navi-Sailor 4000
- 1 x GMDSS main station
- 1 x GMDSS backup station
- 2 x Manual command station Wartsila/levers
- 1 x Automatic pilot station Raytheon Anschutz
- 1 x VDR Kelvin Hughes
- 2 x Radio station UHF Motorola
- 2 x Radio station VHF radiotelephone Sailor
- 3 x Radio station VHF radiotelephone ICOM

AREA AND RESISTANCE OF THE MAIN DECK

Area: 325 m² 10 t/m² (from frame 1 to 84)
5 t/m² (from frame 84 to 109)

MACGREGOR CRANE

Rotating Offshore 100 T Crane with articulated armw

	Maximum Load	Working Radius
Main hook	100 ton	15 m from the center of the base of the crane
Auxiliary hook	10 ton	32 m from the center of the base of the crane

ACCOMMODATIONS

The HERCULES has the capacity to accommodate 120 people and a housing module for 200 people distributed in 90 cabins as follows:

- 14 single cabins; 36 double cabins; 7 quadruple cabins; 29 sextuple cabins; 3 octuple cabins; and 1 cabin with 12 beds
- The HERCULES has offices; 2 meeting rooms; 1 mess room; 4 rooms specially designed as a recreation area; gym; changing rooms with lockers for men and women; waiting room for personnel disembarking by air; doctor’s office and hospital with a bathroom and observation or recovery room with 1 bed

AIR CONDITIONING SYSTEM

The integrated air conditioning system has sufficient power to cover the entire surface of the facilities.

HELIPAD

The Helipad has a 21 m diameter to operate S92 and equivalent helicopters 28,600 Lbs (13t)

DECK EQUIPMENT

Capstan: 2 x 10-ton Hydraulic
Cranes: 2 x 5 ton @ 15 meters radius
Winches for load securing: 4 x 5 ton

FRESH WATER MAKER

Fresh water generators. 2 Water treatment plants by reverse osmosis of 35 m3/day and 50 m3/day, both of which comply with Mexican standard NOM-127-SSA1-1994.

WASTEWATER TREATMENT PLANT

Two wastewater treatment plants, one model EVAC OY/SPT-125 that can treat up to 10 m3/h and one model SEAHORSE/SHTPS-4500 that can treat up to 26 m3/h. These treatment plants comply with Annex IV of the of MARPOL rules and with Mexican standard NOM 001-SEMARNAT-1996.



TRASH COMPACTOR

Dolphin Compactors 2960 that can process up to six tons of trash and that complies with Annex V and Annex VI of the MARPOL 73/78 rules.

FOOD GRINDER

TUFF GUT 5 HP, with power that complies with Exhibit V of the MARPOL rules.

FIRE MONITORS HELIPAD

Three fire monitors foam base AFFF for helipad.

LIFE SAVING EQUIPMENT

- Two lifeboats with capacity for 50 people each, fitted with a VHF radio and a SART radar
- One rescue boat with capacity for 15 crewmembers
- 18 life rafts with a capacity for 25 people each
- 06 life rafts with a capacity for 35 people each
- 12 lifebuoys with light and support. Three of the lifebuoys are located on either side strip and have an illuminated and smoke buoy (MOB)
- 486 life jackets of which 332 are located in the cabins: one per person. The remaining life jackets are located on the deck in boxes, for a total of 154 life jackets
- 02 fire stations with C.I. equipment and complete smoke diving suits

MEDICAL EQUIPMENT

- 1 Ambu stretcher
- 1 Neil Robertson stretcher
- 1 Rescue stretcher
- 1 spider strap
- 1 Ambu resuscitator
- 1 head immobilizer
- 7 Emergency oxygen units
- 1 Fixed Zoll M Series defibrillator
- 1 Portable Welch Allyn defibrillator

COMMUNICATIONS

- The Hercules is fitted with fixed and portable marine VHF and UHF equipment located at strategic points on board, as well as a fixed and portable VHF equipment for helicopter operations located at the navigation bridge and another with the Helicopter Landing Officer (HLO)
- The vessel has a complete Global Maritime Distress Signal System (GMDSS) that is ready for navigation on zones A1, A2, A3, and A4

Satellite Communication System	Skyfile mail satellite systems (for mail service only)
Public Announcement System	Emergency and public announcement equipment
Internal Communication System	Direct Intercom (bridge/control room/radio station/engine rooms, and high voltage room)
Intercom	Machinery area
Sideband System	Furuno, model FS-2575 C.

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