

Atlantic Cougar

Technical Specification

- **Type of vessel:** Multipurpose / Survey
- **Dynamic Positioning** - Hydrographic research vessel/ crew support
- **Personnel Turbines transfer vessel.** (bow transfer system)
- **Aluminum semi displacement Catamaran type hull**
- **Vibration absorbing deckhouse mounting for quiet running**

Built: 985 at Oskarshamns Varv. Yard No: 501.

Material: Aluminum

Length: 30.0 meters over all (27.7m ITC-69)

Beam: 10.0m

Draft: 1.9m in normal condition (2.2m with thruster under keel, moulded depth 3.40m)

Speed: Max 14 Knots / Cruise 12 Knots

Tonnage: 311 Grt/ 91 Nrt

Displacement: light ship 206.2 tonnes (Loaded 323,76 tonnes)

Accommodation: (Total 20 berths)

Passengers: 10/12 charterers in 5/6 Cabins* + 6/7 crew in 3/4 cabins

Propulsion: Twin CP propellers + Stern + Bow thrusters

Positioning & track: Simplex DP0 Dynamic Positioning with DGPS, Survey Auto Track 4 point mooring system with bridge control.

Main engines: 4 x Scania DSI 14 40 M20 SNV 4 x 433hk, 4 x 318kW at 1900 rpm, 2 engines in each hull and each pair powers one of the two variable pitch propellers by reduction transmission type Valmet D2 HC 650 2 PC, 1984, exchange 3,1/1. Ca 24000 running hours. 2 x Kamewa Seffle 38se/3 type D, 1984.

Survey Capability Steering. One independent rudder behind each propeller + 2 x Thrusters fore and aft.

Generators: 2 x Scania DS 8/42 with Hizinger MG 439, 2 x 118kW, 1500 rpm, 1984.

Thrusters: 2 x Hydroland typ PMH 520 TS NV retractable hydraulic thrusters powered by ME fore/aft.

Capacities:

Bunker: Total 20T (Diesel: 2 x 10,3 m³)

Day tank: 2 x 500 litres

FW: 4 x 3,5 m³

Septic: 2.5 m³

Grey water tank: 2,5 m³

Bilge water: 3.5 m³

Lube oil tank: 2 x 200 litres

Ballast tanks: 2 x 19 m³ aft, 2 x 16,2 m³ fore.

Classification: Hull built to DnV regulations 1A1 R90 EO +MV, valid until June 2012

GMDSS-certificate for area A1-A2, Stability documents issued 1989-04-21.

Navigational Equipment:

Furuno DSC FS-1562, Furuno DGPS GP-36, 2 x VHF-DSC Thrane&Thrane Sailor RT5022, Furuno Remote station RB-700, Furuno MF DSC-6A with RX, JRC Navtex NCR-333, SAAB Transponder

AIS R4 navsystem, VHF SRA ME-61, DECCA Bridgemaster Type no. 65821-k, RACAL-DECCA Bright Track,

EMRI Autopilot SEM200, Meridian Gyrocompass SG Brown, Lehnkuhl gyrorepeater,

Consilium Marine SAL

SD1 log, FUSO-403 Boatnav sonar, Stork Kwant engine order telegraph, Kockumation TI-50 typhon, 2 x

Viewsonic screens VP201b/VP2030b, Ericsson inter radio, 2 x 150mm NOR T17 magnetic compass

Unmanned engine rooms: Starting and stopping, as well as monitoring the main and auxiliary machinery can be done from the navigating bridge.

Deck equipment:

5 ton Tow Winch (survey / towages)

Pneumatic Bow Landing System

Effer 14100 14 T Hydraulic crane - max 7000kg - 2050kg Overside. 2 x 2000Kg mini cranes at 6,73m and 1450kg vid 8,63m. 2 x Stern windlasses, 2 x anchors 495kg each. 2 x wire winches SB/BB max weight 2000kg for survey equipment and 4 point mooring.

1 x 3 Ton Hydraulic A frame at the stern with 2 x Man riding winches and diving basket

1 x 5 ton Tow winch suitable for survey and towed array operations.

Safety equipment:

Inergen fire extinguishing SB + BB, automatic closure of ventilation. 2 x Viking life rafts 20 persons, Servoteknik type SFDU-77 thermo- and smoke detectors, Servoteknik SFDU-77 alarm and monitoring system, 3 x air supply units with mask, 2 x additional air containers, 4 x protective overalls, fire axe, 17 x fire extinguisher, McMurdo RT9 SART, McMurdo E3 EPIRB.

General arrangement:

Below deck in each hull contains fore peak with chain box and storage. After that, Storage room with fridges and food. After that engine room, tank room, and steering room. On deck aft is a small workshop. Main deck contains mess/day room, galley, laundry room, storage rooms, 3 x double cabins with sink, 2 x toilets and 1 x shower, equipment room. Tween deck has 5 x double cabins with sink, 1 x toilet, 1 x shower, Office/surveillance room. On bridge is steering equipment for hydrographic operations and engine room surveillance.