

ICEBREAKER ODEN

Call sign SMLQ
IMO 870 0876
MMSI 265 182 000
Ice class GL 100 A5 ARC3

Main dimensions

Length o.a 107.75 m
Beam 31.20 m
Draught 8.50 m
Air draught 42.50 m
Displacement 13,000 t



The polar classed Oden is designed as a combined escort icebreaker and research vessel. She was the first non-nuclear icebreaker at the North Pole in 1991, with a total of seven visits. Between the years 2006-2011 she conducted five successful cruises to Antarctica. In the course of time, Oden has been upgraded and fitted with advanced scientific equipment. We are proud to present one of the leading research platforms in the polar oceans offering world wide service.

Machinery

Total power 24,500 hp
Main engines 4x8 cylinder Sulzer ZA 40S

Main propellers aft 2 pcs CPP
Rudder 2 pcs

Speed
Speed in open water 16 kts - approx 60-70 m³ HFO/24 hours
Normal sea speed 11 kts - approx 30 m³ HFO/24 hours

Ice breaking capability of 1.9 m level ice at 3 knots.

Auxiliary engines and generators

Diesel generator 4x6 cyl Sulzer AT 25 H each 1,200 kW
Emergency generator 1 Cummins KTA-38G2 600 kW

Heeling pump

With a capacity of 50 m³/sec, the heeling pumps allow the ship to heel from one side to another with a maximum angle of 7° in 15 seconds.

Water lubrication and thrust system

Two water pumps with nozzles at the bow flush the ice which reduces the friction between hull and ice. By directing the nozzles, the system can be used as a thruster in open water pumping 22,000 m³/h at max thrust.

Vessel details

Bollard pull
Continuous forward 250 tonnes.

Towing equipment
Pushes towing winch 150 tonnes.

Life saving equipment
MOB SB Lifeboat
Lifeboat 2 x fully covered Harding MCBR24, 43 persons each.
Liferaft 6 x inflatable rafts, 25 persons each.

Accommodation
Single cabin 44
Double cabin 22
Other 2 saunas, gym, hospital, dayroom, helicopter pad and conference room.

Navigational equipment
GMDSS Area A4
ARPA Consilium Selesmar T-340
ECDIS Consilium Maris
Echo sounder Skipper GDS-101
Gyro compass SIMRAD
GPS compass Furuno
Weather station SMHI
AIS SAAB R4
GPS Javad DGPS, SAAB R4

Scientific equipment
Multibeam Kongsberg EM122 12kHz
Sub-bottom profiler Kongsberg SBP120, System depth range 50-1100 m
Other A-frames, winches and laboratories.

Tank capacities

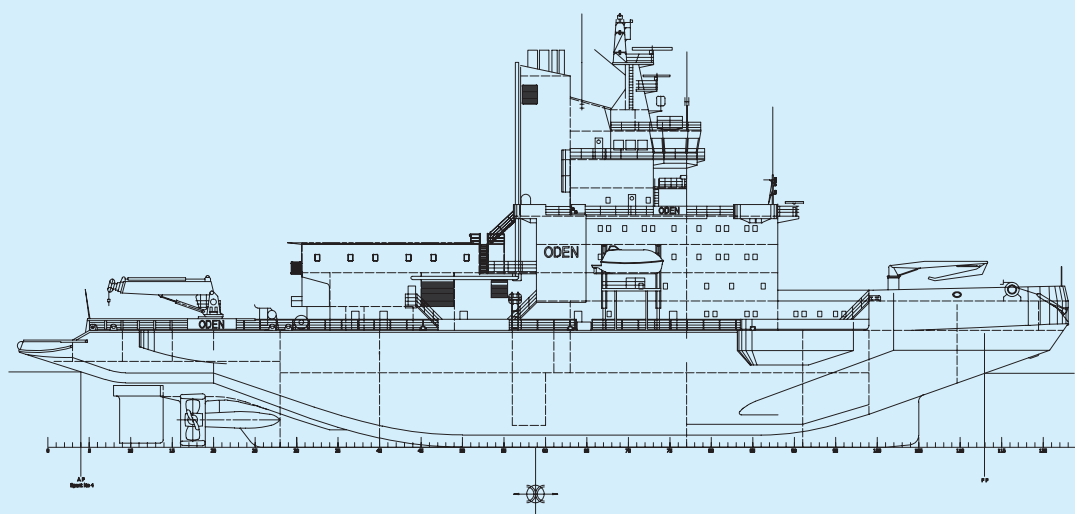
Fresh water 310 m³
Heavy fuel oil 3,380 m³
Diesel 990 m³
Luboil 100 m³

Endurance

27,000 NM/100 days in
open sea.

Potable water produced
onboard.

Contact the vessel
bridge@ib-oden.se



Building yard Götaverken AB, Arendal, Sweden, 1988.