

# ICEBREAKER FREJ

Call sign SBPT
IMO 735 9668

MMSI 265 068 000
Ice class 1A S Ice breaker classed acc. to SOLAS/
International cert.

#### Main dimensions

Length o.a 104.70 m
Beam 23.80 m
Draught 8.30 m
Air draught 45.50 m
Displacement 7,800 t



## Machinery

Total power 25,000 hp

Main engines 5x12 cylinder Wärtsilä S.E.M.T. Pielstistick PC 2.2 each

5,000 hp

Main propellers

Total power 16240 kW/22 000 hp

Fore 2 x Stromberg GTOUL 180/856 each 3210 kW
Aft 2 x Stromberg GTOUL 180/856 each 4910 kW

Rudder 2 pcs

Speed in open water 18 kts - approx 80 m³ HFO/24 hours Normal sea speed 12 kts - approx 20 m³ HFO/24 hours

Ice breaking capability of 1.2 m level ice at 3 knots

Auxiliary engines and generators

Diesel generator 4 x Wärtsilä 624 TS each 900 hp Propeller Motor generator 5 x Stromberg GTOUL 135/455 D1

Emergency generator 1 x Wärtsilä 424 TS 480 hp Supply system 690/400/230V - 50Hz

Heeling pumps 3 x Karhula V 110 Z, electric pumps each with a capacity of 13 800 m³/h. The heeling pumps allows the ship to heel from one side to another with a maximum angle of 13° in 45 seconds.

Frej is designed as an escort icebreaker for the purpose of handling all possible conditions of ice in the Baltic Sea and Gulf of Bothnia. In the last few years Frej has been refitted with new towing equipment, has upgraded it's safety equipment and has had an extensive reconditioning of all systems in the engine department. All of this made to extend the life span of the icebreaker another 20 years.



### Vessel details

#### Bollard pull

Continuous forward 180 tonnes.

#### Towing equipment

Rolls Royce towing winch TW 2500/1000. Pull power 120-140 tonnes. Break hold 250 tonnes.

#### Life saving equipment

MOB 1 x Noreq-RRB-500

Lifeboat 2 x Schat Harding KISS 700, 50 persons each.

Liferaft 4 x Unitor DL liferaft, 25 persons each.

#### Accommodation

Single cabin 27 Double cabin 17

Other Sauna, gym, hospital, dayroom, helicopter pad and

conference room.

#### Navigational equipment

GMDSS Sailor

ARPA Consilium Selesmar ECDIS Consilium Selesmar

Echo sounder Skipper
Gyro compass Anschüts
Weather station SMHI
AIS SAAB
GPS Furuno

Tank capacities

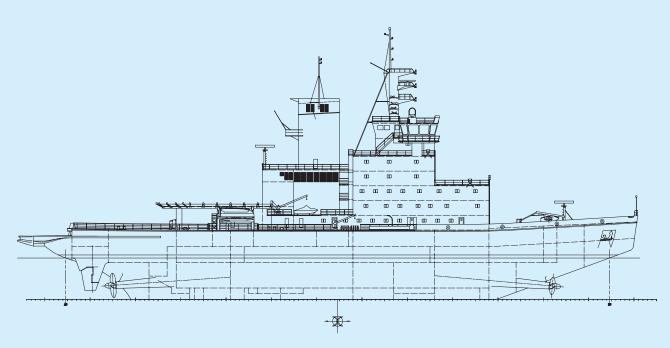
Fresh water 290 m³
Heavy fuel oil 1,400 m³
Diesel 700 m³
Luboil 140 m³

Potable water produced

onboard.

Contact the vessel

bridge@frej.sjofartsverket.se



Building yard OY Wärtsilä AB, Helsinki, Finland in year 1975