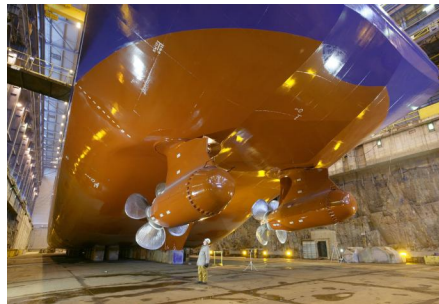


Icebreaking Supply and Standby Vessel **Fesco Sakhalin**

Aker Arctic



Icebreaking stand-by and supply vessel for Far-Eastern Shipping Company (FESCO)

In 2003, Far-Eastern Shipping Company PLC (FESCO), Russia, placed an order at Aker Yards Oy, Helsinki for an icebreaking stand-by and supply vessel for the Sakhalin-1 project in Russia, following evaluation by ExxonMobil, operator of the Sakhalin-1 project. The vessel was delivered in May 2005, and is operating in the harsh Okhotsk Sea environment in the Sakhalin area in the Far-East of Russia.

The vessel has a length over all of 100 metres and a deadweight of 4.000 dwt. The shaft power is 13 MW and the ship is fitted with azimuthing electric propulsion.

The ship design is based on the “double-acting” concept for icebreakers, which was developed by Aker Arctic.

The “double-acting” concept has now become an industry standard. In this concept the vessel meets the most difficult ice conditions moving with the ship’s stern first, using azimuthing electric propulsion. By this, less power is needed and the ship’s bow can be optimised for efficient open water operation. The operating conditions in the Sakhalin area are demanding with freezing temperatures down to -40 degrees C and difficult ice conditions with ice ridges up to 20 metres deep and solid ice exceeding 1,5 meters in thickness.

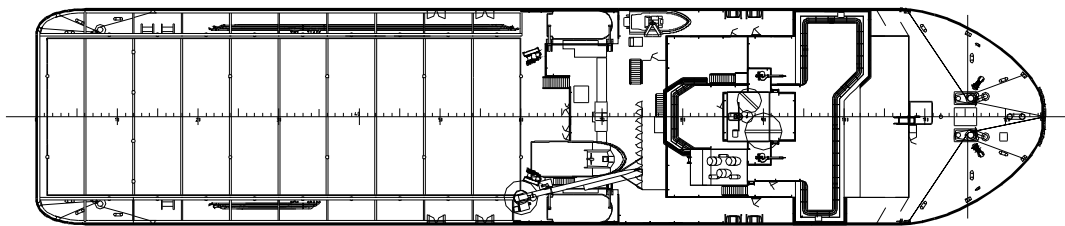
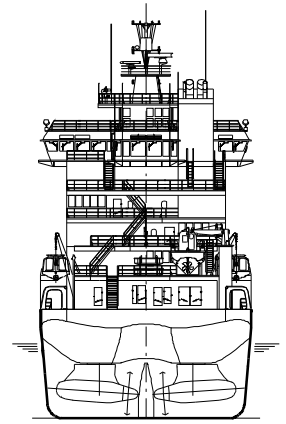
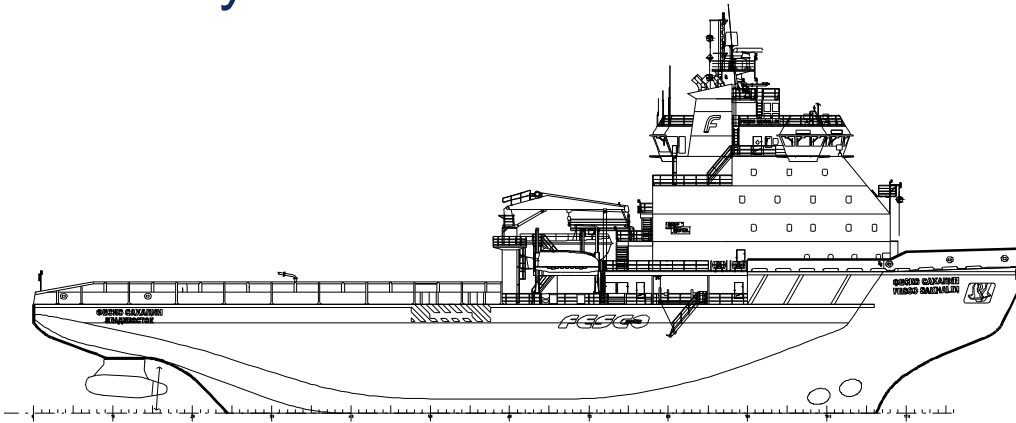
The current ship design is a result of the long term R&D activity by AARC.

This activity started already in 1989 with research on the operational conditions offshore Sakhalin and has continued in form of different research and development tasks for the potential operators and oil companies in the area and in co-operation with several Russian organisations.

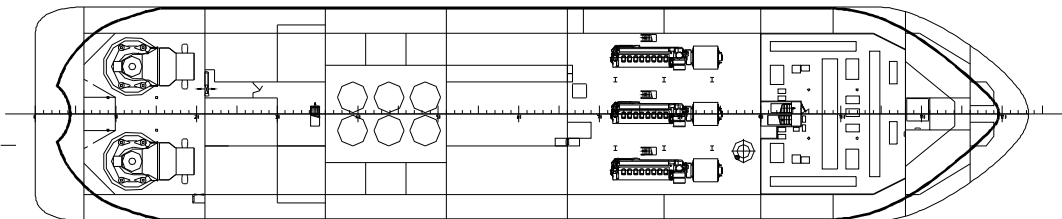
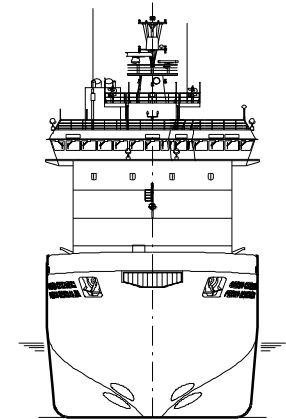
The platform supply vessels operated by Prisco Swire Offshore Ltd. for Sakhalin 2 project were built by Aker Yards AS and are equipped with Aquamaster ARC 1.0 thrusters and operate also on the “double-acting” concept.

Icebreaking Supply and Standby Vessel **Fesco Sakhalin**

Aker Arctic



Main deck



Tween deck

Main particulars

Length OA	99,9 m	Cargo capacity	
Breadth max	21,2 m	liquids / bulk	1500 t
Draught	7,5 m	deck cargo	1000 t, 700 m ²
Speed	16,7 kn	Fire fighting capacity	2 monitors x 1200 m ³ /h
Gross Tonnage	6 900	Rescue capacity	150 evacuees
Deadweight	4 200 t	Owner	Far-Eastern Shipping Company
Crew (max)	40 persons	Builder	Aker Finnyards Inc. Helsinki (2005)
Classification	DNV		
+1A1, Ice-10 Icebreaker Supply Vessel, Fire Fighter I, OILREC, SF, De Ice, EO, DYNPOS- AUT, Naut-06, DK(+), HL (2.0)			
Diesel-electric propulsion			
Main engines 3 x 5 800 kW, 600 rpm			
Azimuth prop. units 2 x 6 500 kW			
Bow thrusters 2 x 1 100 kW			
Harbour engine 1 x 1 080 kW, 1000 rpm			

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