



**Dual Fuel PC5 Tug "Arctic"**

*ILS Knight Design Series* high ice class, dual fuel Arctic escort tug suitable for harbor area icebreaking and ice management operations as well as towing for round-the-year operation, search & rescue operations, fire fighting, personnel transport, and anchor handling.

Class Notation, example

KM★ PC5 AUT1 ANTI-ICE FIFI 1 ESCORT tug.



**Main characteristics**

<u>Length OA</u>	52.2 m
<u>Length WL</u>	49.0 m
<u>Breadth (moulded)</u>	14.0 m
<u>Depth (moulded)</u>	7.6 m
<u>Draught (moulded, scantling):</u>	5.0 m
<u>Draught under keel, scantling:</u>	6.3 m
<u>DWT in tug use</u>	470 t
<u>Propulsion</u>	DE, 2 x AZ, FPP
<u>Propulsion power</u>	2 x 3 600 kW
<u>Main diesel generators (Dual Fuel)</u>	2 x 4 300 kW
<u>Speed</u>	14.0 kn
<u>Icebreaking capability, limit thickness</u>	1.0 m level ice

<u>Main diesel generators</u>	Wärtsilä W9L34 DF 2 x 4320 kW
<u>LNG plant and tank</u>	Wärtsilä
<u>Auxiliary engine</u>	Cummins K19 – DM3 360 kW
<u>Emergency diesel generator</u>	Cummins, abt 100 kW
<u>Water heating boiler</u>	Heatmaster 1 x 650 kW
<u>Azimuth thrusters</u>	ABB Azipod 2 x ICE 1400 a' 3,600 kW, with dia 3500 mm stainless steel propellers
<u>Electrical power plant</u>	ABB
<u>Bow thruster</u>	Kongsberg 1 x 350 kW, electric drive FP
<u>Towing winch</u>	Kongsberg TWH 1500/500 2 drums x 200m UHMPE rope 60mm dia
<u>Escort winch</u>	Kongsberg ETWH 1500/800 2 drums x 200m UHMP rope 60 mm dia
<u>Deck cranes</u>	1 x 2,5 t /6 m foldable
<u>Fast rescue boat</u>	6,5m, 21 knots with 3 persons
<u>Work boat</u>	320 kW, bollard pull 1,3 t