



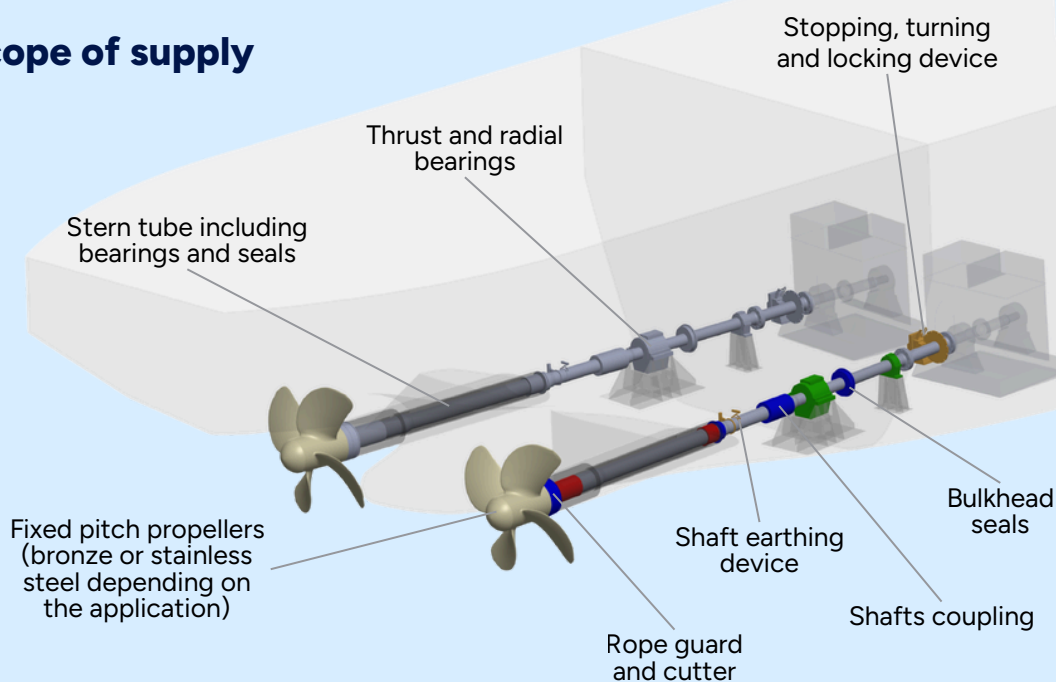
PROPULSION PACKAGE SOLUTION

Reliable, efficient shaft performance throughout the lifetime of the vessel.

Operations in ice pose a significant design challenge due to the large ice pieces interacting with the propeller. This requires the propulsion system to achieve an optimal balance between strength and efficiency.

Railotech's solutions ensure reliable and cost-effective performance of propulsion systems, drawing on decades of experience in designing shaft lines for icebreakers and vessels operating in extreme Arctic conditions.

Our scope of supply

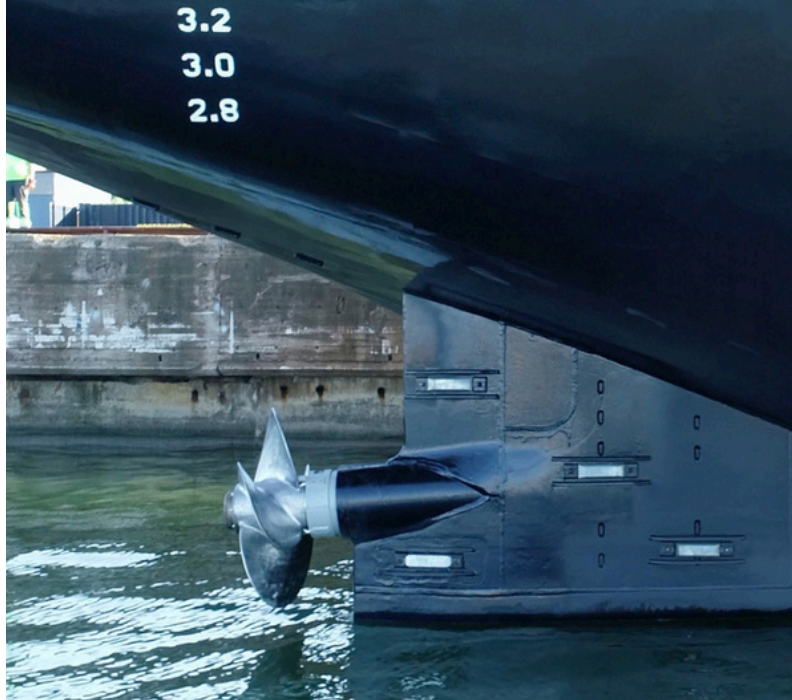


Service description

- Design check of interface elements to propulsion shaft lines
- Classification and detail design of propulsion shaftline
- Design and delivery of equipment
- Performance guarantee

Background and history

Railotech's experience in the design and delivery of shaft lines for ice-going vessels dates back to the 1980s and 1990s. This extensive database of references places Railotech in a unique position to further develop shaft line concepts for a wide range of ice-going vessels.



Propulsion Design and Delivery References

Years	Vessel name	Delivery includes
2015 - 2016	Audax, Pugnax	four 5.4-meter PC3 fixed - pitch propellers
2015, 2016	Louhi	two bronze propellers
2018	Calypso	two high ice class bronze propellers
2020	Saimaa	complete propulsion shaftline package
ordered	Pohjanmaa-class corvette	complete propulsion shaftline package
2025	Polar icebreaker	a PC2 ice class propeller
ordered	Undisclosed	complete PC2 propulsion shaftline package
ordered	Polarstern II research vessel	complete PC2 propulsion shaftline package