



## Southern Ocean Knud - Patrol Vessel

<b>General:</b>	<p>Complete concept design for the Australian Customs Service. The vessel was designed for patrol operations in the heavy seas of the Southern Ocean with good seakeeping performance.</p> <p>The vessel had a long endurance of 60 days with a range of 20,000 nm using an efficient hybrid DM/DE propulsion system. In addition to the crew of 60, austere accommodation was provided for 120 persons. Funding was cancelled by the Government and vessel has not been realised yet.</p>	
<b>Main Particulars:</b>	Length o.a.	90.00 m
	Length p.p.	76.00 m
	Breadth moulded	17.0 m
	Depth to deck 3	7.70 m
	Draught, Design (max.)	5.70 m
	Draught, Scantling	5.90 m
	Deadweight	1,100 t
<b>Capacity:</b>	Passenger Cabins	12 pcs
	Marine Diesel Oil	60 m <sup>3</sup>
	Lube Oil	25 m <sup>3</sup>
	Sewage	90 m <sup>3</sup>
	Fresh water	130 m <sup>3</sup>
	Water Ballast	900 m <sup>3</sup>
<b>Speed:</b>	Service speed	18 kn
<b>Machinery and Equipment:</b>	Medium speed diesel engines with less than 750 rpm	2 x 3,300 kW
	PTO/PTI system	7,600 kW
	Retractable azimuth thruster	
	Helicopter deck	
	Secure accommodation area	
	Tender dock and garages	
	Crane	
	UAV hanger	
<b>Scope of Work:</b>	<p>Concept design, including:</p> <ul style="list-style-type: none"> <li>General Arrangement</li> <li>Outline Specification</li> <li>Hull lines &amp; hydrostatics</li> <li>Speed &amp; power prediction</li> </ul>	
<b>Ref. No.:</b>	KEH 1188.04	