



## 7800 LM RoRo

### General:

The nine vessels will have a length of 238 metres and will be able to transport over 7,800 lane meters of rolling units, equivalent to above 500 trailers.

The design was developed in a fruitful cooperation between the Grimaldi Group, Nanjing Jinling Shipyard and KNUD E. HANSEN.

The vessels will be 'ultra green' with 600m<sup>2</sup> of solar panels, large-capacity batteries to achieve zero emissions in port and a peak shaving system. Furthermore, an air lubrication system is included so the ship will ride on a carpet of micro bubbles, hereby reducing the frictional resistance between the hull and the water.

### Main Particulars:

Length o.a.	238.00 m
Length p.p.	229.75 m
Breadth moulded	34.00 m
Depth to main deck	9.30 m
Draught to summer load line	7.20 m
Deadweight (design/summer draught)	17,000 t

### Capacity:

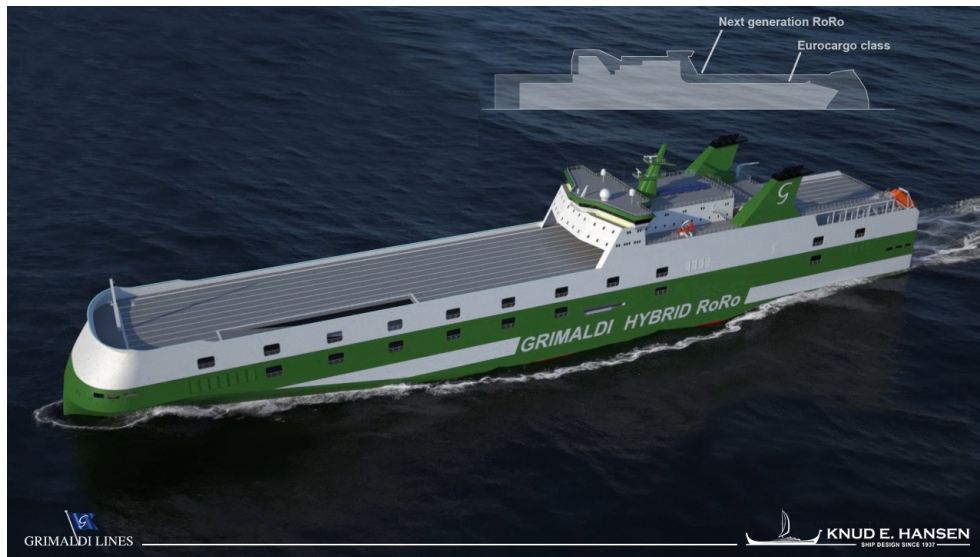
Crew	31 pers
Passengers	12 pax
Lanemetres	7,800 m
Trailers	above 500 pcs

### Speed:

Service speed	20.80 kn
Range on HFO	Approx. 7,000 nm
Range on MGO	Approx. 1,000 nm

### Machinery and Equipment:

Fuel	HFO and MGO
Main engines	Two (2) slow speed 2-stroke Diesel
Installed power	12,780 kW (MCR) per engine
Aux. engines	Three (3) 1,580 kW (MCR) per engine
Propellers	Two (2) CPP propellers



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<b>Miscellaneous:</b>	Classification	RINA
	Number of vessels	9
	IMO numbers	9859533, 9859545, 9859557, 9859569, 9859571, 9859583, 9859595, 9859600, 9859612
<b>Scope of Work:</b>	<p>From Concept to full Basic Design, including:</p> <ul style="list-style-type: none"> <li>General Arrangement and Technical Specification for contract signing</li> <li>Lines plan, optimization and model test assistance</li> <li>Intact and damage calculations</li> <li>Noise and vibration prediction calculations</li> <li>Hull structure design</li> <li>FEM verification of hull structure, global and local</li> <li>Deck outfitting</li> <li>Machinery - Engine Room Design</li> <li>Machinery - System Design</li> <li>Machinery - Hull Engineering</li> <li>HVAC</li> <li>Electric, instrumentation and automation</li> <li>Statutory- and Class documents</li> </ul>	
<b>Ref. No.:</b>	KEH 18029.01	