

HYPATIA DE ALEJANDRÍA: Ro-pax

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Spanish ferry operator Balearia has ambitions to operate one of the cleanest ferry fleets in Europe, and as part of that plan, *Hypatia de Alejandría* has claimed the distinction of being the first LNG fuelled passenger ferry to operate in the Mediterranean.

The first of two sister ships by Italian builder Cantiere Navale Visentini – the second vessel *Marie Curie* was delivered six months later in July 2019 – *Hypatia de Alejandría* is a 28.658gt ro-pax of 186,48m in length. The vessel is powered by a pair of Wärtsilä 9L46DF main engines, each with 10,305kW output, which are connected to controllable pitch propellers through Renk reduction gearboxes. Additionally, the ro-pax is fitted with a Wärtsilä 9L20DF auxiliary as well as two Caterpillar 3516C oil-fuelled gensets. Service speed is 24knots.

The vessel has five vehicle decks and can accommodate 166 cars and 120 trucks in its 2,194 lane metres. There is capacity for 850 passengers in 123 fourperson cabins and three lounges with reclining seats. Describing *Hypatia de Alejandría* as its first smart ship, Balearia designed much of the innovative equipment and services to enhance the passenger experience.

All signage onboard is digitised and if passengers prefer not to wait at reception for key allocations, access to cabins can be granted by of QR codes sent to mobile phones. Pets are allowed onboard in a kennel area which has been equipped with cameras allowing passengers to monitor them by smart phones and tablets. Passengers can access wi-fi entertainment services that include TV, films, games, e-books and magazines. This platform with a-la-carte digital content is also accessible from the smart TVs in the cabins. Hypatia de Alejandría has a shop, café, self-service and a-la-carte restaurant in addition to Jacuzzis on the outside deck.

The use of smart technology further extends to the operation of the vessel with a system in place for remote monitoring of the ship's engines and fuel consumption.

TECHNICAL PARTICULARS

Length oa:	186.48m
Length bp:	177.40m
Breadth moulded:	25.60m
Depth moulded	
to main deck:	9.15m

to upper deck:
scantling: 7.10n design: 6.75n Gross: 28,658g Displacement: 18,090.2t full load cond Lightweight: 10,371.5 Deadweight: 7,718.7 Block co-efficient: 0.569 (draught = 6.75 Speed, service (85%MCR output): .24.65knots
Bunkers (m³) 707.2 Heavy oil: 210.1 LNG: 2 X 165m
Water ballast (m³):5,516 (with heeling tanks = 6,244.32m³
Classification society and notations:RINA RO-RO passenger ship AUT-PORT, AUT-UMS, gas fueler
Propulsion Model:
Gearbox(es) Make: Renl Model: RSV – 1060 Number: 2 Output speed: 137.3rpn
Propeller(s) Material: Ni-Al-Bronze Designer/Manufacturer: Rolls-Royce Number: 2 (4 blades each Fixed/Controllable pitch: Controllable Diameter: 4.8 Speed: 137 rpn
Main-engine driven alternators Number:
52 3 S7/4f Output/speed of each set: 1,800kW/1,800rpn Diesel-driven alternators
Number:

Boilers
Number: 1 Type:
Bow thruster(s) Make: Rolls-Royce Number: 2 Output (each): 1,300kW
Mooring equipment Number:2 combined mooring winch / windlass and 4 mooring winches
Make: Rolls-Royce Type: Electric
Special lifesaving equipment (eg MES, free-fall lifeboats) Number of each and capacity:2 x MES x
303 persons Make:Viking Type:VEMC
If MES, vertical or sloping chutes?: Sloping Hatch covers Design:Cover
Manufacturer:
Vehicles Number of vehicle decks (fixed/moveable): 5
Total lane length: 2.194 LM Total cars: 166 Total freight units: 120 (16m)
Doors/ramps/lifts/moveable car decks Number of each:
Cargo control system
Make: Janus Ballast control system Make: Seastema
Ballast water treatment system Make:Alfa Laval
Capacity:
Crew:
Total:
Navigation and other equipment Is bridge fitted for one-man operation? Yes
Radars Number:
Make:Sperry Marine Model(s):Radar(A) S-Band, Radar(B) X-Band, Vision Master FT PCM4
Fire detection system Make:Autronica (AUTRO SAFE) Type:BS – 420 M
Fire extinguishing systems Cargo holds:Marioff – HIFOG / HF
MT4 system Engine room:Marioff – HIFOG / HF MLS-ML9
Vehicle spaces: Marioff – HIFOG / HF Ro-ro system
Cabins: Marioff – HIFOG / HF 3000 Public spaces: Marioff – HIFOG / HF 3000 Galley Spaces: Marioff – HIFOG / DUCT
Waste disposal plant Sewage plant Make: Evac Model: MBR 70 KN
Efficiency Installed Fuel Meters:VAF instruments /
J5040PTZ (volume) Energy Saving Technologies*: Alternative fuel (LNG), LED lighting, special hull coating (sili- cone), an energy saving device for cooling water system
Launch/float-out date:

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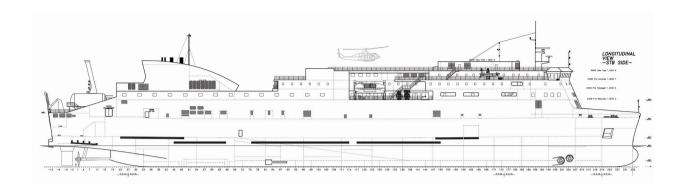
Output/speed of each set: ..2,095kW/1,800rpm

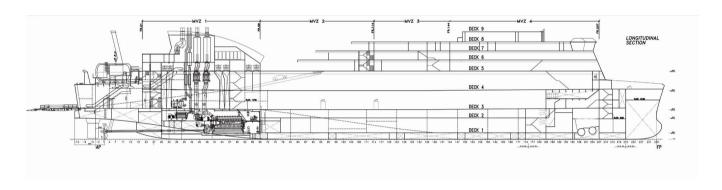
Engine make/type: Wärtsilä / W9L20DF Type of fuel:LNG / HFO / MDO

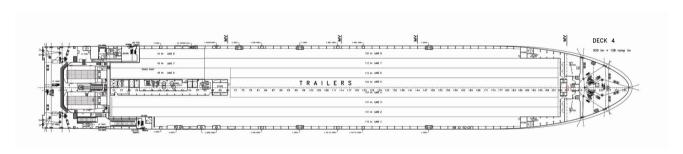
Output/speed of each set: ..1,665kW/1,200rpm

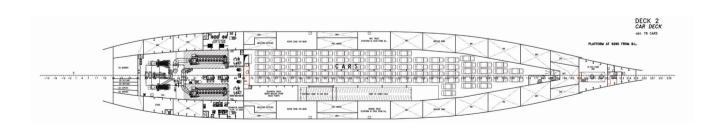
Diesel-driven alternators Number:

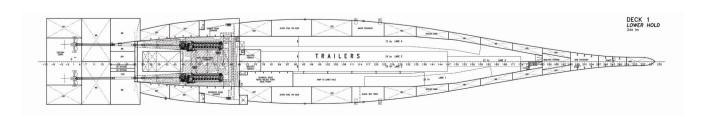
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