

## LUCIANO FEDERICO

**Luciano Federico L** is a B60 Class catamaran designed by Advanced Multihull Designs (AMD) and built by Bazan (Izar), Spain's premier shipyard at the time of the vessel's delivery.

Built to Det Norske Veritas Class DNV + 1A1 HSLC R4 Passenger Car Ferry B E0 and delivered in October 1997, **Luciano Federico L** has been a long-standing entry in the Guinness Book of World Records as the "fastest car ferry in the world". **Luciano Federico L** has a maximum speed in excess of 60 knots and it can sustain loaded service speeds of 56 knots.

Notable features of Luciano Federico L include:

- The worlds fastest ferry (service speed 56 knots)
- Very shallow draft (only 2.15 metres)
- Interior designed by Arquitecto Julio Cesar Ortega
- First Class saloon with 92 seats
- · Economy Class saloon with 358 seats
- Duty free shop
- AAB turbine package completely overhauled by Siemens, Sweden, and they have not be operated since
- · Capacity for 450 passengers and 52 cars

## DESIGN

For this challenging shipbuilding project, Advanced Multihull Designs and Bazan (Izar) optimized the hull form in model testing conducted at the Huazhong University of Science and Technology in China. In order to achieve the ultra high operating speeds required by Buquebus, the ferry operator, **Luciano Federico L**'s hull was refined to accommodate very large diameter waterjets. To verify the initial model testing performance, a larger model of the final hull form was then built and tested at the El Pardo Towing Tank in Spain. Detailed CAD design of the vessel was then completed.

**Luciano Federico L** is powered by a pair of ABB Stal GT35 gas turbines, each developing 16.1MW of power at 3,250rpm. The ABB GT35 turbines offer a number of advantages over an aero derivative gas turbine including longer intervals between overhauls. The turbines drive KaMeWa 112 SII steerable waterjets through a flexible coupling and Renk AUS 135 reduction gearbox.

The electrical and control systems are based on elements from ABB's Advant system.

A Maritime Dynamics Inc (Vosper Thornycroft) ride control system consisting of active aft trim tabs was specifically designed for the  $Luciano\ Federico\ L$ .

At the time of delivery **Luciano Federico L** was one of the most expensive fast ferries ever built.







## LUCIANO FEDERICO

## **SPECIFICATION**

**POWER SUPPLY** 

IMO Number	9154684
Vessel Type	B60 Ultra High Speed Catamaran
Builders	
Designer	
Interior Designer	
Construction Material	
Classification	
Flag	
Built	· · · · · · · · · · · · · · · · · · ·
DIMENSIONS	
Length Overall (m)	77.32
Waterline Length (m)	69.94
Beam (m)	
Draught - loaded (m)	
Braught loaded (m)	
CAPACITIES	
Gross Tonnage	1737
Passengers	446
Crew	
Deadweight (tonnes)	
Deadweight (tornes)	I72
PERFORMANCE	
Maximum Speed (knots)	60
Service Speed (knots)	
Consumption (kg / nm @ 54 knots)	
Consumption (kg / nm @ 54 knots)	
Seakeeping	
Seakeeping	Ivianume Dynamics inc (ividi) min labs
PROPULSION	
Main Engines	2 y ABR GT 35 Turbings (2 y 16 100 k/M aach)
Gearbox	
Waterjet	
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All details and specifications are believed to be correct however no guarantee of accuracy is provided.

