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JetBrief No. 352 August 2002 Service: Passenger Ferries Location: Portugal

Australian Built Low-Wash River Ferries for Portugal's River Tejo

Hamilton Jet Model HM651 Application Review

The enclosed waterways of the River Tejo in Lisbon, Portugal, are home now to a pair of 37metre low wash river catamarans, each utilising twin Hamilton Model HM651 waterjets. Built by Image Marine (a subsidiary of Austal Ships) in West Australia, the two ferries will enhance commuter transportation between ports on the North and South margins of the river.

The vessels were launched in January 2002 and owner/operator Transtejo took delivery in April 2002. Low wash was a main requirement of the hull design, as was the need for easy passenger loading and unloading to shorten turnaround times on their busy commuter routes.

Waterjets were the ideal propulsion option for this type of vessel. The twin HM651 units, which utilise Hamilton MECS electronic controls, generate less wake compared to other forms of propulsion and allow for shallow water operation. They also provide a service speed of 27 knots and excellent manoeuvrability to make docking faster and safer.

The ferries, named Cesario Verde and Pedro Nunes, carry 292 passengers seated on a single level, with a minimum of three crew required. There are two wide hydraulic loading gangways fore and aft on each side, and passenger amenities include a kiosk for light refreshments and television monitors at the front of the saloon. There are outside viewing decks on the bow and on the upper level behind the bridge and crew mess.



Brief Specifications

TYPE Low Wash River Catamaran SERVICE: Passenger Ferry LENGTH: 37.43 metres [LOA] BEAM: 10.70 metres **DRAUGHT:** 1.15 metres **CONSTRUCTION:** Aluminium CLASSIFICATION: Germanischer Lloyd PAYLOAD: 292 passengers + 3 crew SPEED: 29 knots [maximum] WATERJETS: Twin Hamilton Model HM651

Hamilton MECS Electronic ENGINES: Twin MTU diesel, Model 16V 2000 M70, each

WATERJET CONTROLS:

1050kW (1400hp) @ 2100rpm GEARBOXES:

Twin Reintjes WVS430/I DESIGNER: Austal Ships, Perth, Australia

BUILDER: Image Marine, Henderson, West Australia

OWNER/OPERATOR: Transtejo, Transportes Tejo SA, Lisbon. Portugal

HamiltonJet DISTRIBUTORS: Electro Central Vulcanizadora LDA, Lisbon, Portugal WestJet Propulsion, North Fremantle, WestAustralia

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