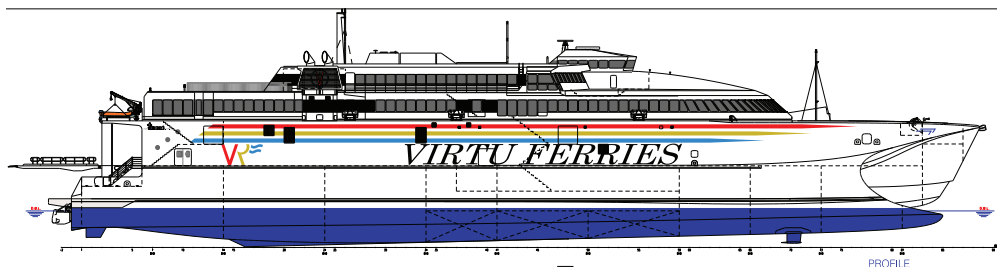


Hull 089

110m Passenger Catamaran



General Particulars

Yard No:	089
Designer:	Revolution Design Pty Ltd
Builder:	Incat Tasmania Pty Ltd
Class Society:	DNV GL
Certification:	DNV +1A1 HSLC R1 Car Ferry "B" EO
Length overall:	110.6 m
Length waterline:	101.9 m
Beam moulded:	28.2 m
Beam of Hulls:	5.4 m
Draft:	4.375 m
Speed:	38 knots at 85% MCR, 600 DWT

Capacities

Deadweight:	1000 tonnes.
Passenger Capacity:	924 persons (including crew).
Seats Installed:	1134 seats.
Passenger Decks:	Located on two levels. Consisting of: Tourist Class passenger seating areas (Tier 2) Truck Drivers Lounge (Tier 2) Business Class passenger seating area (Tier 3) 2 x VIP Lounges (Tier 3) Bars (x3), Gift Shop, Gaming Lounge Rest rooms Pursers Office Passenger lift. Servicing - Tier 1, Tier 2, Tier 3 and Tier 1 mezzanine store.
Crew Accommodation:	Sleeping cabins for 24 crew members.
Vehicle Capacity:	490 truck lane metres at 3.5m wide and 4.6m clear height or up to 167 cars at 4.5m length x 2.4m wide.
Axle loads:	12 tonne tonne (single axle single wheel) or 15 tonnes (single axle dual wheel).
Vehicle Ramps:	Two vehicle ramps fitted. One at the ship stern and on port side forward. Each ramp is capable of carrying vehicles of up to 50 tonnes.

Tankage

MGO Fuel Oil (Storage tanks) -	492,000 litres
Fuel Oil (Header tanks) -	2 x 5000 litres
Fuel Oil (Separator tanks) -	2 x 5000 litres
Fresh Water -	2 x 6500 litres
Sewage -	1 x 6,500 litres
Lube Oil -	2 x 1,100 litres
Oily Bilge Water -	1 x 2000 litres
Aft Hydraulic Oil -	4 x 500 litres
Fwd Hydraulic Oil -	1 x 500 litres

Construction

Design - Two slender, aluminum hulls connected by a bridging section with centre bow structure at forward end. Each hull is divided into ten vented, watertight compartments divided by transverse bulkheads. Two compartments in each hull are prepared as fuel tanks with additional strengthening on each of the end bulkheads and intermediate tank tops.

Air Conditioning

Combination of water cooled air conditioning plant and reverse cycle heat pump units capable of maintaining between 20-22 deg C and 50% RH with a full passenger load and ambient temperature of between 12 deg C and 32 deg C and 80 % RH.

Evacuation

Four Marine Evacuation Stations (MES), two port and two starboard, each MES capable of serving a total of up to 300 persons. A total of eleven, 100-person liferafts are fitted.
2 x SOLAS inflatable dinghies with 25 hp motor and approved launch/recovery method.

Machinery

Main Engines:	4 x resiliently mounted MTU 20V8000M71L marine diesel engines, each rated at 9100kw at 100% MCR.
Water Jets:	4 x Wartsila LJX 1500SR waterjets configured for steering and reverse.
Transmission:	4 x ZF60000 gearboxes, approved by the engine manufacturer, with reduction ratio suited for optimum jet shaft speed.
Hydraulics:	Five hydraulic power packs, one forward, four aft.
Ride Control:	A 'Naiad' active ride control system is fitted to maximise passenger comfort. This system combines active trim tabs aft and two (2) hull mounted T-foils

Electrical

Generators:	4 x 300ekW MTU8V2000M51A generators. The generators are arranged for automatic startup and paralleling. The automation will consider one generator maintained as a standby set.
Distribution:	415V, 50 Hz. 3 phase 4 wire distribution with neutral earth allowing 240 volt supply using one phase and one neutral. Distribution via distribution boards adjacent to or within the space they serve. 100-amp 415V 3-phase shore connection point fitted in starboard aft mooring station.

[Details provided are based on original design and certification.](#)

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