

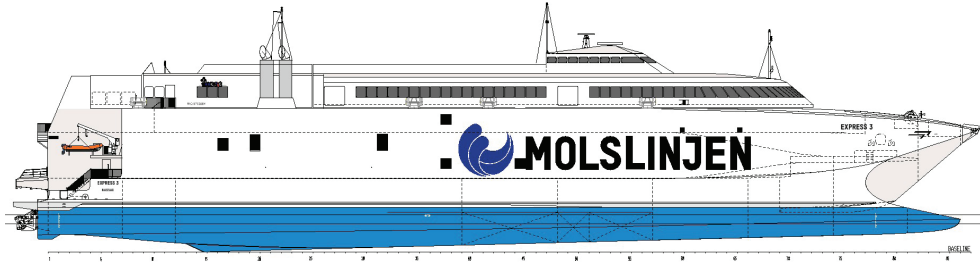
109m

Hull 088



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109m Passenger Catamaran



General Particulars

Yard No:	088
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:	109.4 m
Length waterline:	103.2 m
Beam overall:	30.50 m
Beam of Hulls:	5.80 m
Draft:	4.05m
Speed:	39 knots at 600 DWT

Capacities

Deadweight:	1000 tonnes.
Passenger Capacity:	1000 persons (including crew).
Passenger Deck:	Located on one level, Tier 3, is divided into three lounges: Forward Tier 3 Business Class Lounge and Restaurant. Midships Tier 3 Economy Class Lounge, Kiosk, Café and Children's area. Aft Tier 3 TV rooms and quiet lounge.
Vehicle Capacity:	411 cars (610 truck lane metres at 3.1m wide and 4.6m clear height) plus 227 cars at 4.5m length x 2.3m wide and 2.1m high.
Axle load:	Tier 1 - 13 tonne (single axle dual wheel) between transom and frame 70, CL to 4800 and between Transom and frame 60 outboard of 4800. 2.0 tonnes (single axle dual wheel) fwd of frame 60 (outboard of 4800 only) and fwd of frame 70 elsewhere.
Axle load:	Tier 2 - 2.0 tonne (single axle).

Tankage

Fuel Oil (Main storage tanks):	160,000 litres
Fuel Oil (Long Range tanks):	450,000 litres
Fuel Oil (Header tanks):	2 x 1240 litres
Genset Fuel Oil:	2 x 1240 litres
Fresh Water:	2 x 5,000 litres
Sewage:	1 x 6,500 litres
Lube Oil:	1 x 1,100 litres
Bilge Holding:	1 x 1,100 litres
ER Oily Water:	4 x 160 litres
Engine Coolant:	1 x 4,000 litres
Aft Hydraulic Oil:	2 x 500 litres

Construction

Design: Two slender, aluminium hulls connected by a bridging section with center bow structure at fwd 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

Reverse cycle heat pump units throughout capable of maintaining between 20-22 deg C and 50% RH with a full passenger load and ambient temperature of between -5 deg C and 35 deg C and 60 % 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 life rafts are fitted. 2 x SOLAS inflatable dinghy with 40 hp motor and approved launch/recovery Davit.

Machinery

Main Engines:	4 x resiliently mounted MAN Diesel & Turbo 20V 28/33D STC 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 ZF NR2H 60000 gearboxes with reduction ratio suited for optimum jet shaft speed.
Hydraulics:	Three hydraulic power packs located aft, all alarmed for low level, high temperature and filter clog and low pressure. One pressure line filter and two return line filters fitted. An off-line filter/pump provided.
Ride Control:	An active trim tab ride control system is fitted to maximise passenger comfort.

Electrical

Generators:	4 x Scania 296ekW 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 2430 volt supply using one phase and one neutral. Distribution via distribution boards adjacent to or within the space they serve. 200-amp 415V 3-phase connection point fitted in starboard anteroom.

Details provided are based on original design and certification.

For information on Incat representatives in your region contact head office