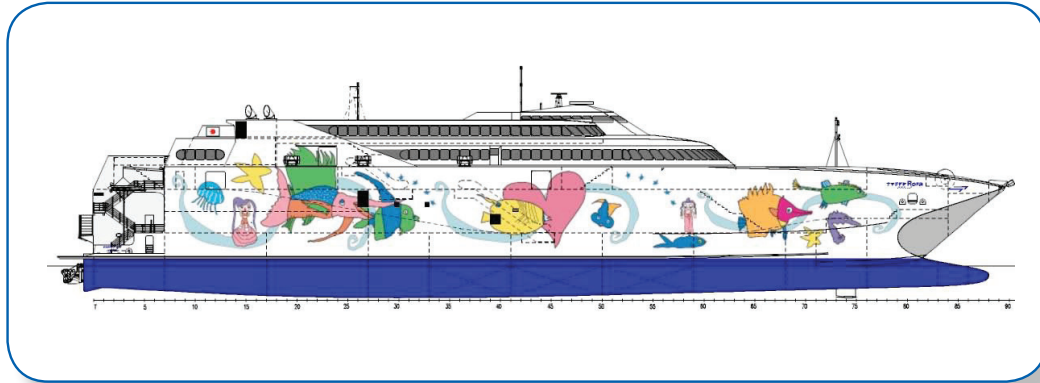


**112m****HULL 064**

## Hull 064

### 112m Wave Piercing Ro/Pax Catamaran



#### General Particulars

Yard No: 064  
 Designer: Revolution Design Pty Ltd.  
 Builder: Incat Tasmania Pty Ltd.  
 Class Society: Det Norske Veritas  
 Certification: DNV 1A1 HSLC R1 Car Ferry "B" EO  
 Length overall: 112.60 m  
 Length waterline: 105.60 m  
 Beam moulded: 30.50 m  
 Beam of Hulls: 5.80 m  
 Draft: 3.93m  
 Speed: approx 40 knots at 600 DWT

Note - All speeds quoted at 100% MCR 4 x 9000 kW @ 1000 rpm without deployment of T-foil, with clean underwater parts and in water depths of 10 metres to 50 metres.

#### Capacities

Max Deadweight - approx 880 tonnes or 1380 at reduced operating conditions.

Passenger Capacity - 800 persons (including crew)  
 Passenger Deck - located on two levels, the Passenger Deck is divided into four lounges:

- Forward Tier 3 Economy Class Lounge
- Midship Tier 3 Entrance Lounge.
- Aft Tier 3 Business Class Lounge.
- Tier 4 Executive Class Lounge.

Vehicle Capacity - 450 truck lane metres at 3.1 m wide and 4.35m clear height plus 193 cars at 4.5m length x 2.3m wide or 355 cars only.

Axle loads - Tier 1 - 12 tonne (single axle dual wheel) between transom and frame 72, CL to 7100 and between Transom and frame 63 outboard of 7100. 9.0 tonnes (single axle dual wheel) FWD. of frame 63 (outboard of 7100 only) and fwd. of frame 72. Tier 2 - 9 tonne (single axle dual wheel) between Transom and frame 21. 2.0 tonnes between frame 21 and 76.

#### Tankage

Fuel Oil - 900,000 litres  
 Fresh Water - 10,000 litres  
 Sewage - 5,000 litres  
 Lube Oil - 2 x 1000 litres  
 ER Oily Water - 4 x 150 litres  
 Genset Fuel Oil - 2 x 1238 litres

#### Construction

Design - Two slender, aluminum hulls connected by a bridging section with center bow structure at fwd end. Each hull is divided into nine vented, watertight compartments divided by transverse bulkheads. Two compartments in each hull prepared as short-range fuel tanks and one as a long-range fuel tank.

#### Air Conditioning

Sanyo 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 35 deg C and 60 % RH.

#### Safety and Evacuation

Escape is via Four Marine Evacuation Stations, two port and two starboard. The two forward MES serve a total of 200 persons each and the two aft MES can serve up to a total a total of 300 persons each. A total of nine 100- person rafts are fitted. 2 x SOLAS inflatable dinghy with 30 hp motor and approved launch / recovery method.

#### Machinery Installations

Main Engines - 4 x resiliently mounted MAN 28/33D marine diesel engines, each rated at 9000 kW.

Water Jets - 4 x Wartsila IJX 1500 waterjets configured for steering and reverse.

Transmission - 4 x ZF60000 NR2H gearboxes, approved by the engine manufacturer, with reduction ratio suited for optimum jet shaft speed.

Hydraulics - Three hydraulic power packs, one forward and two 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 - A 'Maritime Dynamics' active ride control system is fitted to maximise passenger comfort. This system combines active trim tabs aft and optional fold-down T-foil located at aft end of centre bow fitted with active fins. The structural abutment, electrical and hydraulic services to receive the fwd T-foil will be fitted as standard to the vessel.

#### Electrical Installations

Alternators - 4 x MAN D 2876 LE 301/HCN 534 C 360kW (nominal) marine, brushless, self-excited alternators.

Distribution - 415V, 60 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.

Details provided are based on original design and certification.

For information on Incat representatives in your region contact head office

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