

**96m****HULL 051**

## Hull 051

### 96m Wave Piercing Ro/Pax Catamaran



#### General Particulars

Yard No:	051
Designer:	Incat Tasmania Pty Ltd.
Builder:	Incat Tasmania Pty Ltd.
Class Society:	Det Norske Veritas
Certification:	DNV 1A1 HSLC R1 Car Ferry "B" EO
Length overall:	95.47m
Length waterline:	86.00m
Beam overall:	26.60m
Beam of Hulls:	4.50m
Draft:	4.03m
Speed:	38 knots at 686 tonnes deadweight 47 knots at lightship

Note - All speeds quoted at the time of delivery at 100% MCR 4 x 7080 kW @ 1030 rpm without deployment of T-foil, with clean underwater parts and in water depths of 10 metres to 50 metres.

#### Capacities

Max Deadweight - 802 tonnes

Passenger Capacity - 717 passengers + crew

Passenger Deck - located on two levels, the Passenger Deck is divided into four lounges:

- Tier 2 Aft Lounge with seating areas, Male/Female Toilets, Disability Toilet/Mothers Room, Children's Play Area and external Passenger Deck.
- Tier 2 Midship Lounge with seating areas and Bar.
- Tier 2 Forward Lounge with seating areas, Kiosk, Food Preparation Area and Pursers Office.
- Tier 3 Upper Lounge with seating areas, Bar, Male/Female Toilets, Lower Wheelhouse, Crew Mess and external Passenger Deck.

Vehicle Capacity - 330 truck lane metres at 3.1m wide x 4.0m/4.35m clear height plus 80 cars at 4.5m length x 2.3m wide or 230 cars only using optional mezzanine decks.

#### Tankage

Fuel Oil - 174,880 litres
(plus 392,856 litres in long range tanks)
Fresh Water - 5,000 litres
Sewage - 5,000 litres
Lube Oil - 2 x 465 litres
ER Oily Water - 2 x 150 litres
Genset Fuel Oil - 2 x 850 litres

#### Construction

Design - Two slender, aluminum hulls connected by a bridging section with center bow structure at fwd end. Each hull is divided into eight vented, water-tight 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 loads and ambient temperature of 35 deg C and 50 % RH.

#### Safety and Evacuation

Escape is via Four Marine Evacuation Stations, two port and two starboard. Each MES serving a total of up to 200 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 Ruston 16RK270 marine diesel engines, each rated at 7080 kW at 1030 rpm.

Water Jets - 4 x Lips UJ150D waterjets configured for steering and reverse.

Transmission - 4 x Reintjes VUJ 6831 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, for running of mooring capstans, anchor winch, ride control, steering/reverse and rescue boat cranes.

Ride Control - A 'Maritime Dynamics' active ride control system is fitted to maximise passenger comfort. This system combines, active trim tabs aft T-foils located at fwd end of each outer hull fitted with active fins.

Monitoring - An electronic alarm and monitoring system with dual central VDU displays, keyboards and printer fitted in the wheelhouse. Alarm and monitoring to meet the requirements of the HSC Code, the HSLC Rules and EO requirements.

#### Electrical Installations

Alternators - 4 x Caterpillar 3406B 245kW (nominal) marine, brushless, self-excited alternators.

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. Distribution to essential services from independent distribution boards supplied from both switchboards.

Details provided are based on original design and certification.

For information on Incat representatives in your region contact head office

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