

HSV 209 SMILET SPEC



Principal Particulars

- Designer/Builder** - Incat, Hobart, Australia
- Class Society** - Det Norske Veritas
- Certification** - DNV +1A1 R1 HSLC Cargo EO HELDK
- Length overall** - 97.22 metres (318'11")
- Length waterline** - 92.00 metres (301'9")
- Beam overall** - 26.60 metres (87'3")
- Beam of Hulls** - 4.50 metres (14' 8")
- Draft** - 3.43 metres (11'3") loaded
- Speed** - approx 38.0 knots @ 627 tonnes deadweight
- approx 42.0 knots @ 300 tonnes deadweight

Note - All speeds quoted for smooth sea-state, excluding T-foil and 100% MCR (4 x 7200 kW)

Capacities

- Deadweight** - approximately 627 tonnes
- Total persons** - 353 maximum
- Vehicle Deck Capacity**
 - Transom to Frame 4 - 91.5 sqm (985 sqft) with unrestricted headroom.
 - Frame 4 to Frame 49 - 1215.6 sqm (13085 sqft) with 4.70m (15'4") clear headroom.
 - Frame 49 forward - 807.3 sqm (8690 sqft) with 2.0m (6'6") clear headroom
- VD Axle Loads**
 - Transom to Frame 49 - maximum 10 tonnes per single axle or up to M1A1 capable
 - Forward of Frame 49 Ramp A to D - 0.8 tonnes per axle.

Helicopter Deck

- 24.7 m x 15.24 m (81' long x 50' wide) certified to Level I Class 2A. (Fuel storage and on-deck refueling included) for MH-60S, CH-46, UH-1 and AH-1 helicopters.
- Weather protected stowage area for 2 x MH-60S helo forward of helo deck.

Fuel (operating)

- 190,080 litres (50,210 gals)

Fuel (long range)

- 2 x 210,238 litres (2 x 55,540 gals)

Fresh Water

- 2 x 6,625 litres (1,750 gals) GRP tanks plus 2 x 11,350 litres/day (3,000 gals/day) water maker.

Sewage

- 1 x 4,500 litres (1,200 gals)

Lube Oil

- 2 x 1,515 litres (400 gals)

Oily Waste

- 2 x 1,515 litres (400 gals)

Crew Accommodation

Sleeping Berths

- Total number of berths = 107.

Crew Staterooms

- CO - single berth stateroom with private head including toilet, shower and washbasin.
- XO/Commodore- single berth stateroom with private head including toilet, shower and washbasin.
- Officers - two and four berth staterooms
- CPO's - six and three berth staterooms
- Enlisted - two 18-berth bunkrooms, one 15-berth bunkroom and one 12-berth bunkroom.
- Technical Representatives - one 3-berth stateroom

Permanent Seating

- Aircraft style HSC certified seating for 128 persons.

Temporary Seating/Berths

- Aircraft style HSC certified seating for 122 persons re-configurable to temporary berthing for 87 persons.

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Crew Mess

- 39 seat crew mess/day lounge adjacent to galley.
- 10 seat officers lounge adjacent to crew cabins.

Galley - Fitted with cooking systems, day refrigeration and freezer, sinks and food prep area.

Additional modular cool/cold room and dry storage units fitted within vehicle deck space.

Sanitary Spaces - Centralized facilities containing heads, basins and showers.

Laundry - Laundry space located close to crew accommodations and fitted with

- 4 x Automatic washers, 4 x dryers,
- 2 x laundry troughs, and ironing boards.

Office Spaces - Ships Administration office containing 6 x computer work stations and storage cabinets. Computers considered GFE.

C4ISR - 700 sqft upper C4ISR room and 200 sqft lower C4I Equipment room with 70kW 'mission essential' electrical power and climate control.

Planning Room - Staff planning area with 15 seat conference table and office containing 8 x computer workstations.

Medical Space - Treatment facility containing folding operating table, refrigerator, separate head with shower, basin and toilet.

Storage - Weathertight storage spaces with rugged shelving systems located on forward vehicle deck levels.

Escape and Safety

Escape - Evacuation is via two Marine Evacuation Systems (17m inflatable slide with 100p SOLAS A pack liferaft attached). An additional 3 x 100 person SOLAS A pack liferafts are linked to the Marine Evacuation Systems for a total liferaft capacity of 500 persons.

Rescue Boat - 1 x SOLAS RHIB dinghy with 30 hp motor and approved launch / recovery method.

Work Boat - 1 x 7 metre RHIB, capable of carrying 10-15 personnel with a diesel engine and water jet propulsion. The 7 metre RHIB will be stowed on the mission deck on a trailer. The aft small boat crane will be used to launch and recover the 7 metre RHIB.

Machinery Installations

Main Engines - 4 x resiliently mounted Caterpillar 3618 marine diesel engines, each rated at 7200 kW at 100% MCR and 35/52 Celsius ambient temperatures

- Vertical dry exhaust system discharging outboard at portal top.

Water Jets 4 x Wartsilia LIPS LJ120E waterjets configured for steering and reverse.

Transmission 4 x ZF 53000 NRH gearboxes, approved by engine manufacturer, with reduction ratio suited for optimum jet shaft speed.

Ride Control A 'Maritime Dynamics' active ride control system is fitted to maximize 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.

Shore Ramp Stbd aft slewing stern ramp capable of landing to a wharf starboard alongside or directly aft plus capable of deploying amphibious vehicles to water.

Small Boat Crane Slewing telescopic boom crane located port side aft capable of launching small boats/ equipment rated as a 100 tonne/metre crane when lifting equipment.

Transfer of equipment / stores between the vehicle deck and helo deck will employ the ship's small boat crane. The crane will allow for the transfer of equipment between ship to shore or ship to sea.

Electrical Installations

Alternators - 4 x Caterpillar 3406C 320 kW 60 Hz (nominal) marine brushless self-excited alternators

Distribution - Standard 60 Hz US electrical power system available throughout craft via distribution boards adjacent to or within the space they serve.