



**JHSV 112 SPEC**

## Principal Particulars

- Designer/Builder** - Incat, Hobart, Australia
- Class Society** - American Bureau of Shipping (ABS)
- Length overall** - 112.60 metres (369'5")
- Length waterline** - 105.60 metres (346'6")
- Beam overall** - 30.50 metres (100'1")
- Beam of Hulls** - 5.80 metres (19' 1")
- Draft** - 3.93 metres (12'11") loaded
- Speed** - approx 39 knots @ 600 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 9000 kW)

## Capacities

### Deadweight

- approximately 950 tonnes

### Total persons

- Approximately 500 persons

### Vehicle Deck Capacity

- Transom to Frame 4 - 91.5 sqm (985 sqft) with unrestricted headroom.
- Frame 4 to Frame 63 - 1930 sqm (20774 sqft) with 4.70m (15'4") clear headroom.
- Frame 63 forward - 500 sqm (5382 sqft) with 3.0m (9'10") clear headroom

### VD Axle Loads

- Transom to Frame 63 - maximum 12 tonnes per single axle or up to M1A1 capable
- Forward of Frame 63 Ramp A - 9 tonnes per axle.

### Helicopter Deck

- 24.7 m x 15.24 m (81' long x 50' wide) certified to Level I Class 2A. (18,000 gallon 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

- 6 x 150,000 litres ( 6 x 39,626 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 5,000 litres (1,320 gals)

### Lube Oil

- 2 x 1,000 litres (264 gals)

### Oily Waste

- 4 x 150 litres (158 gals)

### Operating Range

- Minimum of 1,200NM at 35 knots (average speed) in SS3 with 600 tonne pay load

### Transit Range

- Minimum of 4,700NM at 25 knots (average speed)

## Crew Accommodation

### Crew Berthing

- 2 x single berth stateroom with private head including toilet, shower and washbasin.
- 3 x double berth stateroom with private head including toilet, shower and washbasin.
- 9 x four berth staterooms

### Crew Berthing

- 150 permanent bunk type berths

### Mission Seating

- Aircraft style HSC certified seating for 312 persons.

### Crew Mess

- 60 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 8 x Automatic washers, 8 x dryers, 4 x ironing boards.

**Office Spaces** - Ships Administration office containing computer work stations and storage cabinets.

**C4ISR** - 2,200 sqft C4ISR suite and 350 sqft C4I Equipment room with required '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 2 x folding operating table, refrigerator, separate head with shower, basin and toilet.

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## 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.

**Fire Detection** - An addressable fire detection system covers at minimum all high and moderate risk spaces (other than the wheelhouse) with alarm panel situated in the wheelhouse with CCTV cameras.

**Fire Protection** - Lightweight structural fire protection protects all moderate and high risk spaces.

**ER Fire Control** - CO2 system for each engine room together with second shot cross connection.

### Drenchers

- Vehicle deck is protected by a zoned drencher system capable of operating two zones simultaneously. Pump control is from the wheelhouse and anterooms.

- Crew and public area protected by a zoned, dry, closed bulb drencher system interconnected with control valves to a single vehicle deck drencher pump.

**Hydrants** - Two electric motor driven pumps, feed into a common loop, which feed fire hydrants distributed throughout the vessel.

**Firefighting Equipment** - Portable fire extinguishers, Fireman's outfits and equipment, water fog applicators, breathing apparatus, international connections and fire control plans included to meet rule requirements.

**Lifesaving Equipment** Lifejackets and Survival suits for 500 persons iaw IMO SOLAS regulations

## Machinery Installations

### Main Engines

- 4 x resiliently mounted MAN 28/33D marine diesel engines, each rated at 9000 kW at 100% MCR and 32/45 Celsius ambient temperatures

- Vertical dry exhaust system discharging outboard at portal top.

**Water Jets** - 4 x Wartsilia LIPS LIX1500 waterjets configured for steering and reverse.

**Transmission** - 4 x ZF 60000 NRH gearboxes, approved by 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, launching crane, stern ramp and rescue boat crane.

**Ride Control** - A 'Maritime Dynamics' active ride control system is fitted to maximize passenger comfort. This system combines, active trim tabs aft and 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 vmission 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 MAN D 876 LE 301,305EKW 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.

**Switchboard** - Main switchboards fitted with a load preferential trip system which automatically sheds non-essential loads whilst still maintaining one alternator as a standby set. Each switchboard fitted with a bus coupler breaker to allow the main bus bars to be split in the event of fault condition

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

**Shore Power** - shore power capable of tying into and compatible with US shore power systems. Connection points fitted in starboard anteroom.