

R.V. STRAIT SIGNET

Offshore Support / Research Vessel

GENERAL

STRAIT SIGNET was built by Saint John Shipbuilding and Drydock, Saint John, New Brunswick, for year round operation in the North Atlantic. The vessel has a moulded steel hull with ice classification. Machinery selection and configuration has been chosen for dependability, station keeping and economical operation.

DECK AND LABORATORY SPACE

Aft Lab: Air conditioned, 600 sq. ft with counters and sinks, direct access to main deck aft. Communications from aft lab through intercom, plus aft deck, fwd deck and galley to bridge.

Main Deck Aft: 560 sq. ft. reinforced steel, clear deck. Open to stern ramp. Bulwark height: 4 ft.; freeboard: 4 ft.

0-1Deck: 700 sq. ft. steel deck, support for winches with room for modular lab or storage container. Various rigging possibilities from the two masts and stay wires.

Moon Pool/Sonar Tube: 42" diameter located amidships from main deck to bottom of keel. Access to 0-1 deck via cargo hatch.

Electrical Capability: Two independent diesel generators. Single phase 120/240V, 3 phase 240V. Shore power connection: 3 phase 240V.

Scientific Equipment: Full suite of instruments available.



PRINCIPAL DIMENSIONS

LOA	130 ft / 40 m
LWL	97 ft / 29 m
Beam moulded	28 ft / 8.5 m
Design draft	14.5 ft / 4.4m aft; 10.0 ft / 3.0 m fwd

MACHINERY/PROPULSION

Main engine	Cat D-398, fixed pitch prop in Kort Nozzle
Auxiliary	Cat D-343/135 kw 220v/60Hz 3 phase w/PTO
Auxiliary	Cat D3306/135kw 220v/60Hz 3 phase
Transformer	220 VAC to 440 VAC
Thrusters	LIPS (bow and stern) fixed pitch
Compressors (2)	220 psi each

DECK MACHINERY

Stern A frame	5 ton capacity (hydraulic)
Deck crane	6 ton capacity (hydraulic, knuckle boom)
Vert. Capstan Aft	6 ton capacity (hydraulic)
Windlass fwd	1000' of 3/4" cable on hydraulic winch
Gantry Aft	6 ton capacity knuckle boom

ELECTRONICS

Radar (2)	Raytheon M34 ARPA. Raytheon RL 80C 4kw
VHF (2)	Skanti DSC.1000, Sailor RT5020
SSB (2)	Ray 150, Sailor 5000MF/HF
GMDSS	Sailor 5000MF/HF Sailor TT-3000 INMARSAT AC
Sounder (2)	Raytheon DSL 250 digital Raytheon DE-731 stylus plotter
Doppler Log	Raytheon DSN-450
DGPS (2)	MicroLogic, Trimble Navtrac, Furuno GP-32
AutoPilot (2)	Sperry Gyro SR-130 Sperry AutoPilot 8T (Magnetic)
Loud Hailer/l'ocm	Ray 430
Weather Fax	Ray Fax 1500
Digital Compass	Com Nav G2 A IS JRC – JHS182
Communications	KVH VSAT TracPhone Sailor 500 VSAT Fleet Broadband

CAPACITIES

Fuel	24,000 US gallons (91,000 litres)
Potable water	4,000 US gallons (15,000 litres)
Lube Oil	600 US gallons (2,300 litres)
Cruising range	6,000 miles
Cruising speed	11 knots maximum

ACCOMMODATIONS

Total compliment of 20 persons including 7 crew, HVAC throughout.



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