

MONOHULL HSC CREW BOAT

COMET-1, COMET-2, COMET-3



- 1. Designer** : **CROWTHER MULTIHULLS PTY LIMITED (INC. IN N.S.W.)
Unit 15, 9 Narabang Way, Belrose NSW 2085
Australia**
- 2. Hull Built** : **SOUTHERN HEMISPHERE SHIPYARD
P.O. Box 5317, Manly Qld 4179, Australia**
- 3. Classification** : **American Bureau of Shipping (ABS)**
- 4. Basic Function** : **A1 – HSC, Fast Crew Boat**
- 5. Hull Material** : **Marine Grade Aluminium**
- 6. Hull Insulation** : **Accommodation area insulated with 80D Rockwool
and in Engine Room insulated with 130D Rockwool
with fire retardant cloth.**

7. Main Particulars:

Length	: 15.50 M	Cb	: 0.36
LWL	: 13.40 M	Gross Tonnage	: 27.26
Breadth	: 3.80 M	Net Tonnage	: 10.08
Draft	: 0.90 M		
Service Speed	: 20Knots		

8. Hull / Scantling	: In conformity with the ABS – Guide for Building and Classing High Speed Craft
Bottom Sides, Bhd, Dk, Roof, etc	: Grade 5083 H321 Plates
Framings	: Grade 6061-T6
Frame Spacing	: 1000mm
Aft Box, Frame -1 to 0	: Void Tank
Engine Room- Mid Box, Frame 0 to 4	: Void Tank
Fuel Oil Compartment, Frame 0 to 6	: Fully insulated with 130D / Vapour tight
Void Tanks (3 Compts.) Frame 6 to 15.5	: Water tight

9. Deck Dimensions:

91. Accommodation Dimensions	:	Clear Area (Sq. Mtrs.)
a. Passenger Deck		
L = 5.0 mtr. B = 2.75 mtr.		A = 13.75
b. Toilet Deck		
L = 1.0 mtr. B = 1.0 mtr.		A = 1.00
c. Galley		
L = 1.0 mtr. B = 1.0 mtr.		A = 1.00
92. Wheel House Deck		
a. Nav. Deck (P/S)		
L = 1.05 mtr. B = 0.6 mtr.		A = 0.63 x 2 = 1.26
b. Passage.		
L = 0.65 mtr. B = 0.75 mtr.		A = 0.50
93. Weather Deck		
a. Fwd Deck		
L = 3 mtr. B = 2.5 mtr (85%).		A = 7.50
b. Passage Deck (P/S)		
L = 11 mtr. B = 0.45 mtr.		A = 4.95 x 2 = 9.90
c. (Aft Deck) Clear Deck Area		
L = 5.0 mtr. B = 3.5 mtr.		A = 17.50

10. Marine Evolution Seat

10.1. Passenger Seats	: 28 – 30 Nos. – Marine New Evolution seating from Australia
10.2. Bridge Nav. Chair	: 2 Nos. – from Australia

11. Hull Preservation / Protection : Jotun Marine Paints + Al. Anodes

12 Propulsion System:

Main Engine	: 2 x Detroit Diesel Engine V8 92 TI Series
Power	: 2 x 600hp @ 2300 RPM / Engine
Drive Shaft	: 2 x Cardan Shaft – Model 688-45 with Universal Joint and Axial load moment on spline, certified by ABS Manufactured by SPICER GELENKWELLNBAU, Germany
Water Jets	: 2 x Hamilton Marine Water Jet- Type HJ632
Engine Controls System	: KOBELT ELECTRONIC CONTROL HEAD 6655 WITH FULL FOLLOW-UP STEERING AND NON FOLLOW-UP STEERING BACK UP. Brand: KOBELT Electronic Control, Canada.

13. Independent Diesel Fuel Tank : 1500 ltrs

14. Power / Lightening System:**14.1. Lightings:**

a. Passenger Deck	: 14 Nos Luxury lamps
b. Wheel House Deck	: 3 Nos. Luxury Lamps
c. Fwd. Weather Deck (P/S)	: 2 Nos. Courtesy Light
d. Aft Weather Deck	: 2 Nos. Courtesy Light
e. Wheel House Deck working light	: 1 No. Search light 2 Nos. (1000W)
f. Mast	: 2 Nos. Navigational lights

14.2. Power

a. Generating Set : Brand: Cummins, Diesel Engine; Onan, Alternator
22.5 Kw, 50Hz, 1 Phase, 230V, 1500 Rpm

b. Battery & Charger 24V DC

- i. Separate battery bank + charger for navigation & communication system.
- ii. Separate battery bank + charger for lighting, bilge pumps and fire pump.
- iii. Separate battery bank + charger for main engines (Port & Stbd) and Aux. Engine.

- c. Shore Supply : 100A, 220V, 1Ph, 50Hz
- d. Switch Boards : 24V DC + 230V AC + Isolator
- e. Electrical Wires : Manufactured by: with Class -Type Approval
 a. Enameled wire & Cable PTE Ltd.
 b. Helkama Bica Oy
 c. Tele-Fonika Kable SA
- f. Bilge Pump : 7 x 165Watts, 16 A / 24V DC; 3700 GPH
 (14000 LPH) / 1-1/2" Discharge
- g. Fire Pump : 1 x 1.1Kw, 220V AC

15. Air Conditioning System : Marine type, Brand: **CRUSSAIR**, USA
 Capacity: 4 Tons with 4 diffuser in the
 Accommodation and 2 Nos. in the Bridge.

16. Piping System : All pipes and fittings are made of stainless steel
 SS 316L

17. Navigation and Communication Equipment:

Installation and commissioning by : Radio Holland Middle East

Make : **FURUNO Model NavNet M-1724c Colour LCD**
 7" Super clear picture on color LCD, easy to operate RAD /
 Plotter

NavNet Features : All NavNet Products incorporate a "Network circuit board" to
 integrate each navNet product on board through an optional LAN
 cable.
 : Each NavNet product is assigned an IP address to enable transfer
 of images between other NavNet products.
 : Pictures received via the NavNet may be adjustable at the
 receiving end.
 : A NavNet system may consist of up to 4 Navnet display units and
 one network sounder.

Key features & benefits: 2.2Kw powerful transmitter for extended 24nm range.
 : 7" LCD coloured display Visible under direct sunlight.
 : Built-in NavNet interface circuit board for integrity with other
 NavNet products.
 : Rugged, die cast, waterproof housing to with stand extreme
 conditions.
 : New reduced-windage compact radome (18") providing stylish form.
 : User-programmable function keys for easy operation.
 : User-friendly operation with combination of discrete keys, Soft
 keys, Alphanumeric Keys and Trackball.
 : Accepts FURNO and Nav-charts (optional), or C-MAP charts,
 depending on specification.
 : Fast chart redraw
 : 12 channel GPS receiver GB-320B with highly accurate position
 fixing available as optional.

- : Video Sounder Picture available with connection of the Optional Network Sounder ETR-6/10N
- : Automatic optimization of radar picture for user convenience.
- : Newly enhanced short-range performance for maximum safety.
- : Cursor position and radar system data output for easy navigation.
- : Head-up, Course-up, North-Up and True Motion modes for navigator performance.
- : Economy mode, Guard-Zone Alarm and Watch mode for maximum protection.
- : Dual EBL, dual EVRM and Off-Center facilities for professional navigation.
- : NMEAD183 interface for easy connection to other navigation equipment.

- Specifications**
- : 2.2Kw output
 - : 24nm range
 - : 460 Radome antenna
 - : 7" TFT color LCD
 - : For 12-24VDC power supply

- Comprising**
- : Display Unit
 - : RSB-0071 Radome Antenna Unit.
 - : Standard Spare Parts and Installation Materials
 - : 5m power cable
 - : with 15mtrs. antenna cable MJ-B24LPF0002-150

- GP320B, GPS Receiver**
- : GPS Bracket
 - : ETR 6/10N Network 600/1000w network sounder
 - : 520-5PSD Plastic Transducer

NAVTEX RECEIVER, NX700 B

Dual Channel Receiver, fully meets new IMO resolution MSC.148 (77)

Key Features & Benefits: Fully meets new IMO resolution MSC.148(77) implemented after July 01, 2005

- : Dual Channel reception, 518KHz and either 490 or 4209.5 Khz.
- : Incorporates a printing device (NX700 A) or a dedicated display device with printer output (NX700B)
- : 200 messages of average length 500 characters can be stored in non-volatile memory.
- : Incorporates a preamp within a lightweight, compact antenna for Reliable uninterrupted reception.
- : Display message on a clear 5" silver bright LCD
- : Low power consumption.
- : NAV data display acts as NMEA repeater for GPS or instruments.

- Comprising**
- : Display unit NX700B
 - : Receiver unit NX 7001
 - : Antenna unit NX-7H
 - : Antenna cable 0484168-0
 - : Standard Spare Parts and Accessories

Furuno VHF Radio FM-8800-25watts, with DSC model FM-8800S

Comprising	: Transceiver unit FM8800S
	: Handset HS 2003
	: Handset Cradle FP05-05510
	: Junction Box IF 8810
	: Standard Installation Materials
	: 2 X Heavy Duty Whip Antenna, for VHF and DSC, Make Celwave Model Cx4
	: 2 X Heavy Duty Antenna Bracket
	: 30m x Antenna cable per meter RG-213
	: 4 x connectors PI-259/10
	: 1 x Power supply unit 110/220VAC @ 12VDC

NAVICO SRH50, GMDSS MARINE HANDHELD VHF

Commercial heavy duty version fully complying with IMO Res. A762(18) and A809 (19) and FCC and Wheel mark approved.

Comprising	: Transceiver unit with LCD display.
	: Helical antenna
	: NOC8 Rechargeable battery (NiCad 850mAh)
	: LTB3 Single charge, emergency use only, Lithium battery (25 hrs battery life)
	: TOS0 12V Trickle charger
	: MAT50 Mains adaptor for trickle charger.
	: Integral belt-clip.

Jotron, model TRON 40s GMDSS CLASS I EPIRB

Fulfills GMDSS EPIRB regulations IMO A662/695/810

Comprising	: Satellite beacon, with built-in antenna
	: Lithium battery
	: Fiber-free mounting bracket, model FB-4, with Hammer H-20 automatic release mechanism.

Jotron, model TRON SART GMDSS 9GHz Radar Transponder

For use in lifeboats, life rafts and vessel bulkheads.

Comprising	: Main Unit
	: Mounting bracket
	: Standard Spare Parts and Accessories

18. Window Glass & Frames:

Toughened Glass ISO 614 with Marine Grade Aluminium Frame and Stainless Steel outer frame and SS fasteners
Approved by ABS, Denmark

Manufactured by **C.C. Jensen A/S, Svendborg, Denmark**

19. Fresh Water Tank @ Fwd Void Space (P/S) :

Dimension:L = 0.80 mtr. ; B = 0.60 mtr. ; D = 0.60mtr.(2) ; Vol.= 0.576 M³ = 576 Ltrs.

20. Toilet	: Granite flooring, ceramic toilet bowl, wash basin with all associated fittings.
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21. Galley : Granite table top, Stainless steel wash basin with all associated fittings, cabinet for kitchen utensils

22. Watertight Hatches :

- 22.1. Emergency Escape WT Door at Fwd.
- 22.2. Accommodation Roof Top WT Door at Fwd.
- 22.3. Wheel House W.T. Door
- 22.4. Engine Room WT Door

23. Anchor System:

Self Launch Plough Anchor
By Simpson – Lawrence,
Lewmar Delta Anchor
With Bow Roller, Anchor Chute
Stainless Steel Roller

24. Fire and Safety Equipment:

- 1. FIXED FIRE SUPPRESSION SYSTEM – FM200
- 2. MOB
- 3. SART
- 4. EPIRB
- 5. LIFE RAFT
- 6. LIFE BUOY
- 7. MANUAL HAND PUMP
- 8. FIRE PUMP
- 9. FIRE EXTINGUISHERS
- 10. FIRE DETECTORS
- 11. CCTV – DAY/NIGHT VISION
- 12. FIRE ALARM SYSTEM
- 13. SMOKE AND HEAT DETECTORS
- 14. LIFE JACKETS
- 15. FIRE RETARDENT SEATS
- 16. FIRST AID KITS

25. Completed by :RMC
Dubai Dry Docks
Dubai, United Arab Emirates

26. Completion of build : May, 2011

27. Vessel Class : American Bureau of Shipping (ABS)
Certificates from Class : Full Class Certificates valid till May 2016

28. Vessel Flag : St.Kitts & Nevis
Certificates from Flag : Certificate of Registry
Certificate of Radio Station License







