

GC70TRI

DESIGN BRIEF

The GC70 Power Trimaran has been custom designed for a scheduled ferry service between St. Maarten, Saba and St. Barths. The design features long slender fuel efficient wave piercing hull shapes and a sleek low profile passenger cabin for 30. The primary design parameters are fuel efficiency, ride comfort, vessel cost and to meet SVC regulations.



SPECIFICATIONS

LOA	70'9"
BOA	30' 6"
Draft	3'6"
Light Displacement	20,000 lbs (+/-)
Heavy Displacement	30,000 lbs
Passengers	32/ 2 crew
Engines	2 x 240 HP Yanmar
Fuel Capacity	1 x 300 gal
Water	1 x 55 gal
Waste	1 x 35 gal
Electronics	Standard Horizon, Sitex, Simrad
Steering	Hydraulic
AC Electric	1 x 7.5 Onan
HVAC	2 x 18,000 BTU
Cruise speed loaded	23 knots (+/-)
Top speed	27 knots plus

HULLS, DECKS AND SUPERSTRUCTURE

Manual and Drawings

- A Notebook of all purchased equipment manuals will be provided
- A Copy of the purchase order master for the VESSEL showing what and from whom each item was purchased
- A set of drawings and Stability Calculations to meet SVC requirements

Construction

- Hulls, decks, cross beams, wing decks, bulkheads, roof, cabin sides, windshield and heads walls built with Corecell foam and fiberglass using Proset epoxy resin via resin infusion and vacuum-bag processes. Miscellaneous other components built using West System construction methods.

Exterior/Interior Finish

- Dupont MS 600 polyurethane paint over Dupont Corlar epoxy primer—commercial yacht finish.

Paint & Graphics

- 787176 Snow White – Exterior roof, hull, cabin
- 787474 Shell White – Salon interior
- 787176 Snow White – tinted light grey nonskid using Fiberglass Hawaii particles.
- Pettit Trinidad SR Red bottom paint
- Vinyl graphic stern lettering

DECK FITTINGS AND EQUIPMENT

Cleats

- 4 - 15" Stainless
- 4 - 12" Stainless

Life Rails

- Removeable boarding stanchions
- 1.25" aluminum handrails and posts as needed
- 2 – 1.25" cabin side crew handrails

Deck Hatches

- 787176 Snow White – Exterior roof, hull, cabin
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Windows/ Doors

- 1 – .375" clear fixed glass window bonded flush to superstructure - helm
- 2 - .375" clear acrylic helm port and starboard windows w/ D hatches
- Cabin side windows .375" tinted acrylic bonded flush to superstructure
- 2 – Custom composite cabin entrance doors w/ window
- 1 – Custom composite stern deck access door w/ window
- 1 - Custom composite head door
- 1 - Custom composite 32" x 32" Emergency exit door

Steering

- Simrad autopilot
- bronze tiller arms
- Liquid tie bar
- Marine Hardware bronze rudder on S.S. shaft
- UHMW bearings
- 28" SS destroyer wheel

GROUND AND MOORING TACKLE

- 1 – 55 Fortress anchor with 15'-3/8" chain and 300' of 3/4" rode
- 1 - 44 lb Lewmar Claw anchor with 15'-3/8" chain and 300' of 3/4" rode
- 3 - 65' 3/4" dock lines
- 6 – Polyform 10" x 26" Fenders

ELECTRICAL

- 1 - Standard Horizon Matrix AIS VHF
- 1 - Standard Horizon CP590 12" chartplotter, GPS w/ depth sounder
- 1 - Sitex MDS1 Radar
- 1 – Simrad Autopilot

- 1 - Clarion XMD stereo with AM/FM, IPOD adaptor and remote control. 4 Bose Speakers
- 1 – Public address system
- 1 - 4" Hi-speed Compass
- 2 - Dynaplate ground plates
- 1 - Paneltronics AC/DC electrical panel
- 1 – 7.5 KW Onan generator w/ soundshield and Optima starting battery
- 2 – Flagship Marine 18,000 BTU HVAC units
- 1 - 12V LED Port and starboard bow light, sternlight, steaming and anchor lights
- 1 - 12V CCFL light fixture for head
- 11 – 12V Dr. Led red/white interior light fixtures for salon and helm
- 2 – 12V CCFL lights for hull interior
- 1 - 12V Dr. Led white dome light for exterior under roof
- Soft Aisle 12V aisle guide lights w/ carpet to edge track
- 3 – 120V/USB charging stations
- 2 – GoLight 12V spotlights
- 4 – 12V LED underwater lights
- 1 – windshield wiper

PLUMBING

Piping

- Rigid SeaTec, PVC, nylon and reinforced vinyl
- Rule 2000 bilge pumps as required
- WaterWitch high water alarm system

Water Systems

- 1 – 55 gal. water tank
- ParMax pressure pump
- Deck fill
- 1 - sink spigot
- 1 – Hose bib for deck washdown

Head

- 1 – Dometic 8100 electric marine toilet
- Marlon thruhulls and seacock
- 1 – 35 gal holding tank
- Overboard and deck pump out discharge

ENGINE

- 2 - 4LHA-STP 240hp Yanmar diesels w/60 amp alternators
- ZF 63A transmissions
- 2" Aquamet SS shafts to Kraft pillow blocks to 1.75" Aquamet SS shafts
- 4 blade fixed bronze props
- Lewmar bow thruster

- Bronze thru hulls
- Morse SL - 3 controls, Morse cables
- Yanmar instrument panel, with oil pressure, water temp, and engine hour meters, safety alarm, tachometers
- Vernalift wet exhaust
- 2-Optima (1000 CCA) starting batteries
- 1 - 300 gal aluminum fuel tank
- Fire blanket overhead
- 2" Sounddown engine room soundproofing

ACCOMMODATIONS

- Air conditioned salon w/ backup air blower system
- 3 – Lewmar roof hatches
- Springfield Senja ferry seats w/seat belts, storage nets and aluminum frames for 32
- Fiberglass exterior seating for 2
- Air conditioned head w/ door, sink, toilet and mirror
- Luggage storage area
- Pompanette helm chair
- Dinghy launch /haul system with integral stern steps
- 12' Caribe dinghy w/ 20HP Yamaha outboard
- Flat passenger loading ramps aft of each wing with removable life rails
- Carpeted floor covering on interior walkways
- 6'-8" to 6' passenger headroom at centerline, 5'-4" at helm

MISCELLANEOUS

- Buckets
- Scrub brush
- Sponges
- Toilet paper holder

SAFETY EQUIPMENT

Construction and equipment to meet SVC requirements as follows:

- 1 - 30" Ring bouy (orange) w/bracket
- 1 - ACR SM2A Man overboard light w/rack and battery
- 34 - Taylortec Adult Type 1 PFD's w/ retroreflective tape, lights, whistle
- 3 - Taylortec Child's Type 1 PFD's w/retroreflective tape, lights, whistle
- 1 – 16 man and 1 - 20 man Viking self deploy/self inflate life rafts
- 1 – hand pump w/10' intake and discharge hose
- 6 - Red hand-held flares
- 6 - Orange smoke hand-held flares

- 6 – Parachute flares
- 2 - Waterproof flashlight
- 4 - D-cell batteries - dated
- 60' - 3/8" black polypropylene line (ring buoy, MOB light)
- 3 - 10 lb ABC (B II) Fire Extinguisher
- 2 – 2.5 gal 'fire bucket' w/ lanyard – labeled
- 1 - Watertight container (flares, flashlight & whistle)
- 1 - Signage (emergency procedures, waste plan, PFD Donning, oil, garbage, drugs, lettering and load lines markings as needed)
- First Aid kit
- Radio and Ship Log Books
- 1 - 406 CAT-1 Self-launching EPIRB
- 1 – Engine room fire blanket and fasteners
- 1 - PTO fire pump
- 1 - Fire hose and nozzle
- 2 – Engine room air intake w/closure
- 2 – Engine room auxiliary air intake w/closure
- 1 - Engine room fixed FE - 241 Fire System
- CSD bulkhead sealant for bulkhead penetrations as required

SEA TRIALS and WARRANTY

SEA TRIALS

Seatrials will be conducted to confirm;

- Correct rpm is achieved for the engines
- Vibration and alignment is correct
- Steering is functional and that rudders go to stops
- Cummins warranty seatrial including rpm at graduated speeds, backpressure, exhaust gas temperature, oil pressure and cooling water flow.

WARRANTY

See "Schedule C"

OPTIONS

- Bespoke design, colors and equipment upon request