

BoatSmith *Wharram Ariki 48* Performance Cruising Catamaran v3 Specifications

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LOA: 48 <i>ft 2 in</i>	BOA: 22 <i>ft</i>
LWL: 41 <i>ft 6 in</i>	Weight: 12,000 <i>lbs</i>
Draft: 3 <i>ft</i> – 7 <i>ft</i> (daggerboards down)	Mainsail: 650 <i>ft</i> ²
Jib: 250 <i>ft</i> ²	Screecher: 820 <i>ft</i> ²
Asymmetrical spinnaker: 1,234 <i>ft</i> ²	Designer: James Wharram

1 Hull Structures

- Hulls, decks, houses, and cockpit in H60 Divinycell foam with biaxial and triaxial fiberglass skins inside and out
- Exterior hull skins in vinylester resin
- High load areas reinforced with Coosa board inserts
- Hull-to-deck joint fibreglassed on interior and exterior with three layers of 1708 biaxial tapes
- Rub rails/lashing strakes in Coosa board with unidirectional and biaxial reinforcements

- Toe rails at deck edges
- Below water line finished with two coats of epoxy barrier coat
- Solid glass laminate cross beams
- Interior bulkheads, floors, and bunk tops in H60 Divinycell foam with biaxial fiberglass skins
- Interior and exterior paint is Awlcraft
- Bottom paint
- 2 aft houses

2 Cockpit & Decks

- 7 *ft* long U-shaped settee at forward end of cockpit around a varnished hardwood double drop-leaf table
- The cockpit drop-leaf table is a high-low model with filler cushions and the table drops to convert the dinette space into 2 on-deck double berths
- All cockpit cushions with Sunbrella covers
- Helm console with seating, instrument panel, and reefer seat on forward face
- Built-in cockpit electric reefer/freezer
- Composite hard-top bimini 12×14 *ft*² with anodized aluminum supports
- Side cockpit awnings
- Storage for 2 20 *gal* propane tanks
- Storage for batteries
- Storage for 2 28 *gal* engine fuel tanks
- Slated Cypress decks between beams fore and aft
- Aft boarding stairs
- 2 aft trampolines
- 1 forward trampoline

3 Spars, Rigging, & Sails

- All sails by North Sails
- Mast and boom of custom-built series 60 extruded painted aluminum
- Mast is 54 *ft* fractionally-rigged and tapered above the hounds
- Mast is rigged with single spreader diamond shrouds, upper and lower shrouds, and forestay and includes internal conduit and wiring
- Low friction mainsail track batten car system
- Boom is 19 *ft* and configured with lazy jacks, stack pack, and a Dynex Dux main topping lift
- Headstay is $\frac{5}{8}$ *in* 1×19 316 stainless wire
- Upper and lower shrouds are in 13 *mm* Dynex Dux with Colligo Marine terminators and deadeyes
- $\frac{1}{4}$ *in* diamond shrouds in 1×19 316 stainless
- Forestay bridle in 13 *mm* Dynex Dux
- 2 chainplates built of $\frac{1}{2}$ *in* thick stainless steel
- Main halyard is high-tech low stretch T 900 with 2-to-1 purchase
- 2 jib halyards in high-tech low stretch T 900
- 2 spinnaker halyards in StaySet
- 4 padeyes on forward beam to park halyards
- Outhaul and two reef lines
- 12 line-clutches at mast base
- 4-to-1 purchase mainsheet at helm station
- 12 *ft* main traveler track mounted on bimini with 4-to-1 control lines at helm station

- 650 *ft*² mainsail of high quality Dacron with 6 full-length battens and 3 reef points with low friction sliding cars at all luff attachments
- 1 Lewmar 50 2-speed aluminum self-tailing mainsheet winch
- 1 Lewmar 44 2-speed aluminum self-tailing halyard winch
- 2 Lewmar 44 2-speed aluminum self-tailing primary winches
- 2 Lewmar 44 2-speed aluminum self-tailing secondary winches
- 250 *ft*² jib on a Harken roller furler with Dacron jib sheets
- Sunbrella foot and leech covers for jib
- 820 *ft*² screecher on Colligo continuous line furler with sheets and tackle
- 1,234 *ft*² asymmetrical spinnaker on Colligo continuous line furler with sheets and tackle
- Retractable carbon bow sprit with 4 *ft* extension
- Performance sail handling hardware by Harken, Lewmar, and Schaeffer

4 Engine, Controls, & Tanks

- Twin 60 *hp* Honda 25 *in* shaft high thrust outboard motors with power tilt
- Morse single lever engine controls
- 2 28 *gal* polyethylene fuel tanks
- Water separating fuel filter system

5 Steering

- Full mechanical steering with 60 *in* diameter composite wheel
- Rudders in Coosa board and biaxial fiberglass attached with lashings
- Daggerboards, daggerboard trunks, rigging, and winches

- Aluminum tillers and tiller bar
- Ray Marine Smart Pilot X 10 Core Pack with Type 1 rotary drive

6 Deck Hardware

- 4 12 *in* stainless steel primary mooring cleats
- 8 teak midships cleats at beam ends
- 55 *lb* Rocna anchor with 60 *ft* $\frac{3}{8}$ *in* chain and 200 *ft* $\frac{5}{8}$ *in* 12-strand plaited nylon anchor rode
- West Marine Performance 2 46 *lb* secondary anchor with 50 *ft* $\frac{5}{16}$ *in* chain and 200 *ft* $\frac{5}{8}$ *in* anchor rode
- Electric windlass mounted over chain locker in forward deck
- Port and starboard life line systems each comprising 5 26 *in* stanchions with double life lines outside of beam pairs and triple life lines between beam pairs; life lines terminate at deck aft and forward of beams
- 8 chafe guards

7 Access & Ventilation

- 4 dorades (2 port and 2 starboard) with internal boxes in main cabins
- 5 electric fans: galley, bunk, head, dinette, and office
- 2 sliding companionway hatches with acrylic dropboards in main houses
- 2 sliding companionway hatches with acrylic dropboards in aft houses
- 2 hinged deck hatches in foc'sles port and starboard
- 2 Lewmar size 60 hatches with screens: one for main bunk and one for dinette
- 2 Lewmar size 40 hatches with screens: one for galley and one for office
- 2 Lewmar size 40 hatches: one port and one starboard in forepeaks

- 2 Lewmar size 40 hatches: one port and one starboard in aft peaks
- 3 fixed portlights of $\frac{1}{4}$ *in* tempered smoked safety glass in main house port hull
- 3 fixed portlights of $\frac{1}{4}$ *in* tempered smoked safety glass in main house starboard hull
- 1 fixed portlight of $\frac{1}{4}$ *in* tempered smoked safety glass in aft house port hull
- 1 fixed portlight of $\frac{1}{4}$ *in* tempered smoked safety glass in aft house starboard hull
- 2 Lewmar size 20 hatches with screens for aft houses: one port, one starboard

8 Interior Accommodations & Finish

- Main and aft cabins faired and painted with Awlcraft
- Oiled and varnished wood trim in main cabins
- Teak & holly plywood soles in main cabins
- Teak & holly dinette sole
- Saloon dinette table is varnished hardwood convertible to a bunk
- Saloon dinette cushions with fabric upholstery
- Main bunk cushion is 4 *in* high-quality flow-through foam with fabric upholstery
- Forepeaks and aft peaks port and starboard painted with white elastomeric paint
- Foc'sles port and starboard painted with white elastomeric paint

9 Galley

- Force 10 3-burner, 1.05 *ft*³ oven model no. 63351
- 1 20 *gal* propane tank
- Propane control system
- 4 *ft*³ top-loading icebox with 5 *in* foam insulation
- Cabinets with drawers, cupboards, shelves
- Gas and CO sniffer

10 Plumbing

- Bath tub shower with hot and cold water in aft port cabin
- Head in aft port cabin
- 80 *gal* fresh water tank space
- Stainless steel deck fill to fresh water tank
- Fresh water pressure pump system
- 1,200 *Watt* 110 *Volt* 6 *gal* water heater
- Retractable deck shower with hot and cold water
- Stainless steel head and galley sinks and fixtures
- Potable water filter for galley faucet
- Electric flush marine toilet
- 40 *gal* waste holding tank under head floor

11 Electrical & Solar Charging System

- 30 *Amp* shore power inlet connector
- 50 *ft* 30 *Amp* shore power cord
- Galvanic isolator
- Generator interface transfer switch and inlet
- 4 200 *Watt* solar panels
- Morningstar multi-stage solar controller
- 4 225 A/H 8D AGM deep cycle batteries
- 2 75 A/H AGM starter batteries
- Batteries connected to electrical system through 4 battery switches to control power supply
- Main electrical distribution panel with 6 AC and 13 DC circuits
- Feed from battery protected with 150 *Amp* main fuse block
- 2,000 *Watt* modified-sine inverter
- Port, starboard, and stern navigation lights
- Mast-mounted steaming light/foredeck light
- Masthead anchor light and tricolor light
- 18 LED interior lights (bright white and soft blue)
- 4 LED cockpit lights (bright white, soft blue, and helm)
- 9 12 *Volt* outlets: 1 double at saloon dinette, 1 double at navigation office, 1 double at main bunk, 1 single at helm console, 1 single at cockpit, 1 single in the aft starboard cabin
- 4 110 *Volt* outlets: 1 at saloon dinette, 1 at navigation office, 1 at galley, 1 at main bunk
- Lightning bonding: rod on mast and connect base to deployable ground plane

12 Instruments

- Garmin GPSMap 4210
- Garmin GMI 10 Depth, GWS 10 Wind System bundle
- Garmin AIS 600
- Garmin 4 kW 18 in RADAR
- Garmin VHF 200 fixed mount radio
- Lighted compass

13 Commissioning

- West Marine Antigua binoculars
- 4 25 ft $\frac{5}{8}$ in pre-spliced double-braid dock lines
- 2 50 ft $\frac{5}{8}$ in pre-spliced double-braid dock lines
- 2 35 ft $\frac{5}{8}$ in pre-spliced double-braid dock lines
- 4 fenders 20 in Tuff End round
- 4 fenders survivor center rope 12×34 in²
- 2 10 lb refillable fire extinguishers
- 2 5 lb refillable fire extinguishers
- 12 gauge high performance Alert + Locate Plus
- Life Sling 3
- Type 4 horse shoe
- Horn
- Bell
- Boat hook

14 Additional Provisions

- BoatSmith's *Ariki* built to these v3 specifications is US \$434,945 FOB West Palm Beach, Florida.
- BoatSmith may alter specifications at its discretion to improve quality.
- BoatSmith warrants that the *Ariki* built to these v3 specifications shall be free from manufacturing defects.