BoatSmith *Wharram Ariki 48*
Performance Cruising Catamaran
v3 Specifications

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<table>
<thead>
<tr>
<th>LOA: 48 ft 2 in</th>
<th>BOA: 22 ft</th>
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<tbody>
<tr>
<td>LWL: 41 ft 6 in</td>
<td>Weight: 12,000 lbs</td>
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<tr>
<td>Draft: 3 ft – 7 ft (daggerboards down)</td>
<td>Mainsail: 650 ft$^2$</td>
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<tr>
<td>Jib: 250 ft$^2$</td>
<td>Screecher: 820 ft$^2$</td>
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<tr>
<td>Asymmetrical spinnaker: 1,234 ft$^2$</td>
<td>Designer: James Wharram</td>
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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 fiberglassed 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 hard-wood 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 ft² 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 in$^2$
- 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.