

# TARTAN 4700

## SPECIFICATIONS & FEATURES

### Hull

- NPG Isothalic gelcoat for superior gloss retention
- Resin infused BPA Epoxy hull laminate producing a strength to weight ratio not attainable in any production polyester laminates
- BPA Epoxy's superior adhesive strength reduces overall hull weight while increasing strength producing a faster and safer performance cruising yacht
- Strict resin control through vacuum infusion produces glass to resin ratio of 60% glass, 40% resin. (production polyester boats are typically 25% glass, 75% resin=heavy and brittle)
- Superior fatigue and cyclic loading characteristics of BPA epoxy ensure a hull that retains its shape and strength longer resulting in higher resale value
- Extensive internal structure designed to carry rig and keel loads, glass taped into hull using modified epoxy resin
- Synthetic foam hull coring, provides lightweight structure, stiffness, sound and thermal insulation and superior impact resistance
- Hull is resin infused under vacuum and the structure is laminated in "one shot" thus does not rely on secondary bonding of structural materials
- BPA epoxy hull laminate is far stronger than any polyester laminate of similar weight, i.e. greater safety margins while delivering superior performance over normal production polyester hulls
- 90 degree throw, Marelon, flush thru hull fittings. Marelon fittings are UL and ABS approved and are corrosion free
- Complete interior paintout for enhanced cosmetics and to seal interior laminate surfaces
- Built to meet ABS Plan Certification
- Industry leading, non-prorated 15 year hull structural and blister guarantee
- Warranty is conditionally transferable
- Painted hull in wide variety of colors

### Deck

- Deck is a balanced composite laminate utilizing BPA epoxy resin, uni-directional "E"-glass reinforcement, and high strength/stiffness sealed end grain balsa coring
- Our custom resin infusion process creates the best resin-to-glass reinforcement ratio possible resulting in the stiffest, lightest, strongest deck in production boatbuilding
- Weight saved high increases righting moment improving safety and performance
- Infusion process with BPA modified epoxy resin provides a stronger more fatigue resistant deck laminate than typical production polyester deck laminates
- Deck is locally reinforced at high load areas with additional plies of bi-directional "E"-glass reinforcement
- NPG Isothalic gelcoat for improved color and gloss retention
- Gelcoat is formulated for greater flexibility reducing gel coat crazing
- White or off-white gelcoat with patterned, molded non-skid surface on horizontal deck areas
- CNC computer cut balsa coring also offers acoustic as well as thermal insulation increasing interior comfort
- Core "windows" at all deck hardware installations. Window is reinforced with solid laminate and isolates hardware installations from cored laminate, reducing stress crazes around hardware often seen in laminates reinforced with plywood and eliminates rot problems associated with decks reinforced with plywood
- Structurally loaded hardware backed with either FRP or 6061 T6 aluminum backing plates
- Time-tested hull to deck joint. Deck is fastened to inward facing hull flange with integrally molded hardened 6061 T6 aluminum bar forming a full sheer length backing plate
- Stainless steel fasteners sized to meet or exceed ABS standard for offshore use, are drilled and tapped into aluminum bar, offering full serviceability from the outside of the boat
- Deck to hull joint bonded with 3M 5200 adhesive sealant

### Keel & Ballast

- 9,750 lb., 4% antimonial hardened lead casting
- Template ground for fit and maximum performance
- Faired and epoxy coated
- Beavertail bulb design significantly lowers center of gravity improving righting moment. Result is increased sail carrying ability, performance and safety
- Ballast is through-bolted to hull with cast in place stainless steel bolts. Quantity and size exceed ABS standard for offshore use

### Rudder & Steering System

- Console style rack and pinion steering pedestal
- 48" stainless steel leather wrapped wheel
- Stainless steel pedestal guard
- Single lever, pedestal-mounted engine control with stainless steel handles provides easy access and viewing while maneuvering
- 6" binnacle compass with stainless steel hood
- Carbon fiber rudder post, for lighter weight and greater strength
- Self aligning roller rudder bearings
- Gator rudder post seal
- Emergency tiller



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### Interior

- Structural fiberglass timbers bonded to hull to carry mast and keel loads
- Structural bulkheads bonded to hull
- Bulkheads and risers are pressure laminate or varnished cherry faced marine plywood
- Hand fit varnished cherry trim throughout
- Solid stock raised panel varnished cherry cabinet doors with ventilation slots
- Positive lock polished chrome cabinet hardware
- 1" solid stock raised panel varnished cherry passage doors in full cherry framed jambs
- Polished chrome mortised door lock sets
- Solid stock varnished cherry cabinet faces throughout
- Tongue and groove solid cherry hull ceilings in forward stateroom
- Solid cherry face, dovetail joined, all wood drawers throughout
- Custom solid stock main salon table with inlaid Tartan logo and centerline storage
- Easy maintenance, varnished cherry battened overhead with strategically placed access panels
- Varnished solid stock teak cabin sole with extensive blage access hatches
- Varnished solid teak handrails placed for security in a seaway
- Selection of designer fabrics available for interior upholstery

### Ventilation

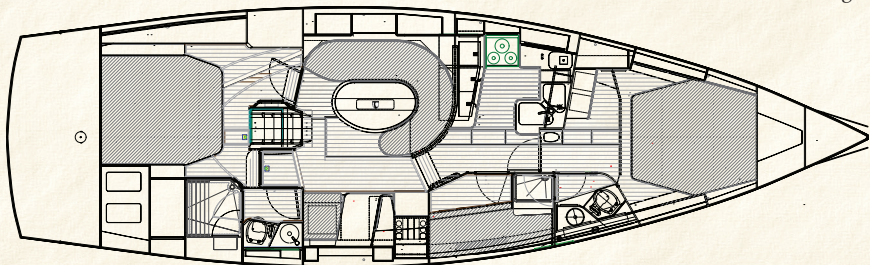
- (5) Stainless steel unlimited offshore CE approved deck
- (8) Stainless steel unlimited offshore CE approved deck hatches
- (8) Cabin side mounted stainless steel opening port lights with fly screens
- (3) Cockpit mounted stainless steel opening port lights with fly screens
- (2) 4" Chrome dorade vents with stainless steel guard
- Lexan sliding companionway hatch with fiberglass spray hood, solid teak hatch boards and trim

### Engine & Mechanical

- 75 hp diesel
- Pedestal mount single lever controls
- Pedestal mount engine panel
- 80 gallon (302.83 l) fuel capacity in aluminum tank with remote gauge
- Fuel filter/water separator
- Lead lined engine insulation
- Excellent engine service access
- 100-amp output alternator with external smart regulator
- Folding four blade propeller for high performance under power or sailing

### Electrical

- Batteries, 2 8D AGM house batteries and 1 size 27 gel starting battery
- 2 KW inverter/charger
- Polish chrome and stainless steel interior lighting
- Automatic lights in hanging locker, liquor locker and refrigerator compartment
- Service lighting in engine compartment
- Service lighting in cockpit lockers
- Directional reading lights at berths and main cabin settees
- Directional spotlights in galley and over main cabin table
- Recessed, dimmable overhead spotlights in cabin overhead
- Interior courtesy lighting
- Cockpit and swim ladder courtesy lighting
- Dual 30 amp shore power services
- 50 foot shore power cord
- 110 VAC distribution panel prepped to accept gen set
- 12 VDC & 110 VAC digital metered distribution panel
- Battery selector switch
- Electrical bonding system
- Electric sump pump with automatic float switch for icebox and shower drains
- Electric bilge pump with automatic float switch with manual override
- UL approved, stranded, tinned copper wiring for increased corrosion resistance
- Wiring bundled in PVC conduit with additional conduit in place and available for future installations
- All wiring is properly chafe protected where it passes through bulkheads, liners and cabinetry
- ABYC compliant color coded wiring throughout
- USCG approved navigation lights on bow rail, stern rail and mast
- High water bilge alarm





## Galley & Plumbing

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- 4 burner Force 10 gimbale LPG stove with oven and broiler
- LPG sniffer with automatic shut off
- Cherry faced cabinetry with raised panel access doors
- Cherry faced, dovetailed cutlery drawers
- Molded Granicote double basin sink with premium marine grade galley faucet and manual foot pump with swivel spigot
- Granicote solid surface galley countertops available in several designer colors
- Storage under galley sink through ventilated raised panel cherry doors
- Galley trash bin
- Molded icebox with Granicote solid surface counter top and 4" foam insulation, insulated front and top load access
- Hot and cold pressure water with easy service access to pump and plumbing
- Freshwater plumbing features polyethylene tubing and Whale mechanical fittings
- All below water hose connections are double stainless steel clamped for added security
- Premium marine grade hoses used throughout
- 200 gallons (757.08 l) of freshwater tankage with distribution manifold
- Forespar Marelon thru-hull fittings throughout, UL approved and corrosion free
- 10 gallon (37.85 l) water heater, operates on 110 VAC or engine heat exchanger

## Head

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- (2) Marine heads- One aft with separate shower stall with Plexiglass enclosure, molded seat and teak floor grate, one forward with vanity
- Showers drains to separate sump with automatic electric pump for overboard discharge
- 24 gallon (90.95 l) holding tank for each head w/ deck pump out and vent
- Y-valve with direct overboard discharge for offshore use
- Holding tank remote level indicator for each tank
- Marine premium grade head faucet and shower mixer
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- Molded Granicote solid surface counter tops with integral sink
- Utility storage under sink through raised panel cherry door
- Hanging/wet locker outboard of shower seat

## Accommodations & Storage

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- Forward and aft cabins with extensive lockers, hanging locker and dovetail drawers
- Queen-sized berth in forward and aft cabin with quilted mattress
- Furniture grade main cabin settees and seats with contoured cushions
- Main cabin fit with cherry cabinets and ventilated raised panel doors throughout
- Through bulkhead raised panel ventilation door to forward cabin
- Large storage outboard of main cabin seat backs
- Varnished, drop leaf, solid stock cherry table with center storage bin
- Forward-facing navigation station to starboard
- Navigation lockers with installation space for extensive electronics
- Starboard crew cabin with stacked single berths
- Storage below berths
- Cockpit seat locker to starboard
- Cockpit lazarette hatches port and starboard
- Propane gas bottle storage in cockpit for two 11 lb tanks

## Spars & Rigging

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### Mast:

- Carbon-fiber mast for greater strength, lower weight, increased safety margins and improved performance
- White coated double spreader design
- CCR rig, self tacking jib and masthead reacher
- Tapered mast section for reduced weight aloft
- Tapered airfoil swept spreaders
- Custom designed carbon fiber masthead with sheaves for 2 headsails halyards and 1 main halyard
- 1 x 19 Stainless steel wire rigging with forged turnbuckles
- Mast to deck tie rod to carry running rigging loads
- Custom designed stainless steel chainplate system ties to extensive internal, FRP structure and hull
- Masthead anchor light
- Harken Cruising Series headsail furling for self tacking jib and reacher
- Bow light with foredeck illuminator
- Mast wiring conduit
- VHF wiring for masthead antenna
- Spartite mast sealing and chock system
- (2) fold down stainless steel mast steps
- Harkenball low friction mainsail track



# TARTAN 4700

## SPECIFICATIONS & FEATURES

### Spars & Rigging cont'd

#### Boom:

- Carbon fiber pocket boom with integral sail cover and lazy jack system
- (2) Single line reefs led aft to cockpit winch, allows for reefing from the cockpit
- Internal 4:1 outhaul
- Two-part boom topping lift

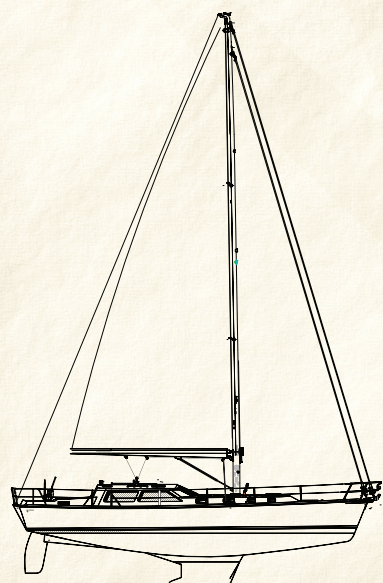
#### Running Rigging:

- (1) Low stretch genoa halyard
- (1) Low stretch main halyard
- (1) Dacronself-tacking jib sheet
- (1) Dacron mainsheet
- (2) Main traveler taglines
- (2) Reacher sheets
- (2) Reef lines

### Deck Hardware

- (2) Harken 56.2 STC (self tailing chrome) cockpit winches
- (2) Harken 44.2 STC (self tailing chrome) cockpit winches
- (1) Harken 44.2 STC aft house top-mounted winches for sail controls
- (1) Harken 44.2 C genoa halyard winch mounted on mast
- 27" 1 1/8 diameter, all welded stainless steel stanchions, 4 hole mounting base with backing plate intallation
- 27" 1 1/8 tube double stainless steel split stern
- 27" 1 1/8 tube double stainless steel bow rail with rail mounted navigation light
- 1 x 19 double lifelines with port, starboard, and stern boarding gates with pelican hooks
- Custom designed and fabricated stainless steel stem fitting with integral double bow roller
- Custom fabricated rail mount chocks for bow mooring cleats
- Stainless steel 10" bow mooring cleats with backing plate
- Custom fabricated mid mooring chocks with 8" stainless steel mooring cleats, installed with backing plates
- Custom fabricated rail mount chocks for stern mooring cleats
- Stainless steel 10" aft mooring cleats
- 3 1/2" X 1 3/4 " teak cap rail through-bolted to 6060 T6 aluminum bar in hull flange
- Teak taffrail
- Polished stainless steel toerail mounted genoa track with lead cars for reacher

- Harken self tacking jib track mounted forward of mast
- (2) Harken 44.2 STC (self tailing chrome) housetop winches
- (3) Harken aluminum winch handles
- (8) Spinlock rope clutches for aft sail control leads
- (1) Harken 44.2 C genoa halyard winch mounted on mast
- Harken over/under style aft lead control blocks
- Harken turning blocks at base of mast for aft sail control leads
- Harken mainsheet system led to cockpit winches
- Harken traveler with six-part tagline adjustment led to aft end of housetop for easy adjustment
- Custom stainless steel mast collar with multiple attachments for blocks
- Polished chrome 4" dorades on teck dorade caps
- (2) Stainless steel dorade gaurds
- Companionway hatch sea hood with instrument pod
- 6" binnacle compass
- Split locker lid latch
- CE unlimited offshore approved stainless steel deck hatches
- CE unlimited offshore approved stainless steel port lights
- On deck drains to waterline discharge, eliminates hull streaking
- Extensive housetop teak handrails
- Mauual cockpit mounted bilge pump
- Drink holders in cockpit
- offshore ready, match molded, and gasketed cockpit seat hatches
- Hinge down swim platform with retracting stainless steel ladder



### Tartan 4700 Design Dimensions

LOA.....	47.0 ft
LWL.....	39 ft
LOA/WL .....	1.21
Max Beam.....	14.08 ft
Draft.....	6.25 ft
Displacement.....	28,000 lbs(LT SHIP)
Ballast.....	9,750 lbs (ALL LEAD)
Ballest/Disp .....	.35
Disp/Length .....	210.73

#### RIG DIMENSIONS

I Seftacking Jib.....	56.5 ft
I Reacher.....	62.7 ft
J Seftacking Jib .....	16.5 ft
J Reacher.....	17.5 ft
P.....	57 ft
E.....	19.2 ft

#### SA/DISP

ST Jib 100% Fore Tri .....	18.09
Reacher 100% Fore Tri .....	19.09

#### SAIL DIMENSIONS

Mainsail .....	547.2 sq ft
100% Fore Tri, Self Tacker .....	490.075 sq ft
100 % Fore Tri, Reacher .....	548.625 sq ft
TTL W/ST 100% Fore Tri.....	1,038.075 sq ft
TTL W/Reacher 100% Fore Tri .....	1,095.83 sq ft
Designer.....	Tim Jackett

CE approved for category "A" unlimited offshore  
NMMA Approved Builder

Specifications subject to change • Updated September 2011