

TARTAN 5300 SPECIFICATIONS & FEATURES

Hull

- NPG Isothalic gelcoat, hull is finished in owner's choice of color
- BPA epoxy infused hull laminate producing a strength to weight ratio not attainable in any production polyester laminates
- BPA epoxy's superior adhesive properties reduce overall hull weight while increasing strength, producing a faster and safer performance cruising yacht
- Strict resin control through use of resin infusion produces glass to resin ratio of 60% glass fiber, 40% resin. (Production polyester boats are typically 25% glass fiber, 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 BPA epoxy resin
- Synthetic foam hull coring, provides lightweight structure, stiffness, sound and thermal insulation and superior impact resistance
- Hull is vacuum-bagged and 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

Deck

- NPG Isothalic gelcoat for improved color and gloss retention
- Gelcoat is formulated for greater flexibility reducing occurrence of common gel coat crazing
- Two-color deck standard, choice of combinations
- Infused deck laminate, utilizing BPA epoxy resin yielding high resin/glass ratio and void free laminate.
- Composite laminate utilizing high strength uni-directional "E" glass and sealed end grain balsa coring
- Balsa core laminates are stiff, strong and lightweight.
- 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 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

- 13,000 lb. beavertail or 14,000 lb. keel/centerboard
- Template ground for fit and maximum performance
- Faired and epoxy coated
- Beavertail bulb and keel/centerboard 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

- Leather covered wheel
- Stainless steel pedestal guard
- 6" binnacle compass with stainless steel hood
- Single lever engine controls mounted on pedestal for easy access and viewing
- High density, closed cell urethane foam rudder blade with modified epoxy, carbon-fiber reinforced skins
- High strength/low weight carbon-fiber rudder post
- High density low friction self aligning rudder bearings
- Emergency tiller

Ventilation

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

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Interior

- Structural fiberglass timbers bonded to hull to carry mast and keel loads
- Structural bulkheads bonded to hull and deck
- 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
- 11/8" 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 sealings in forward and aft staterooms
- Solid cherry face, dovetail joined, all wood drawers throughout
- Custom solid stock main salon table with inlaid Tartan logo
- Easy maintainance, varnished cherry battened overhead with strategically placed access panels
- Varnished solid stock teak cabin sole with extensive access hatches
- Varnished teak handrails placed for security in a seaway
- Selection of premium designer fabrics or Ultraleather or Ultrasuede for interior upholstery

Engine & Mechanical

- 106 hp diesel with pedestal mount single lever controls
- Pedestal mount engine panel
- 125 gallon (473.18 l) fuel capacity in aluminum tank with remote gauge
- Fuel filter/water separator
- Lead-lined engine insulation
- Excellent engine service access on all sides through opening floor hatch in main saloon
- Balmar 105-amp output alternator with smart regulator control
- Folding three-blade prop on stainless steel shaft

Electrical

- (4) 8D batteries (880 amp-hour house battery bank) and 1 size 31 AGM starting battery
- 2.5 KW inverter/charger
- Polished chrome and stainless steel interior lighting
- Automatic lights in hanging lockers, 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 transom courtesy lighting
- 50 amp 220 VAC input shore power
- 110 VAC distribution panel prepped to accept gen set
- 24VDC metered distribution panel
- 12 VDC System for non 24VDC components
- 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 color coded wiring throughout
- USCG approved navigation lights on bow rail, stern rail and mast
- 100 SF SSB ground plane molded into hull
- High water bilge alarm

Head

- Two marine heads: Both included: separate shower stall with Plexiglas enclosure, molded seat and teak floor grate
- Showers drain to separate sumps 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
- Macerator pump for holding tank discharge for offshore use
- Holding tank remote level indicator
- Marine premium grade sanitation hoses with low odor permeability
- Premium marine grade head faucet and shower mixer
- Molded Granicote solid surface countertops with integral sink
- Utility storage under sinks through raised panel cherry door
- Ample storage in upper vanities

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Galley & Plumbing

- Four burner force 10 Gimbald LPG stove with oven & broiler
- Microwave oven in cabinet
- LPG sniffer with automatic shut off
- 24 VDC hold cold plate refrigeration and freezer compartments
- 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
- Hinge out galley trash bin with cherry raised panel door access
- 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
- Hot and cold cockpit shower
- 24 VDC deck washdown at bow
- 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
- 225 gallons (946.46 l) of freshwater tankage with distribution manifold
- Forespar Marelon thru-hull fittings throughout, UL approved and corrosion free

Accommodations & Storage

- Forward cabin with extensive lockers, hanging locker and four dovetail drawers
- Queen-sized berth in forward and aft cabins with quilted mattresses
- Furniture grade main cabin settees and seats with contoured cushions
- Main cabin fit with cherry cabinets and ventilated raised panel doors throughout
- Large storage outboard of main cabin seat backs
- Varnished, drop leaf, solid stock cherry table with inlaid Tartan logo
- Navigation station to starboard
- Navigation lockers with installation space for extensive electronics
- Bose AM/FM/CD stereo with 4 cabin speakers and 2 cockpit speakers
- Main cabin flat screen TV with DVD player
- Full width aft cabin berth, with hanging locker, bureau and shelves
- Storage below berths
- Storage for two composite 20 lb LPG bottles
- Crew cabin mid ship with upper & lower single berths
- On deck aft storage lockers
- Available in multiple cabin layout variations

Spars & Rigging

Mast:

- Carbon-fiber mast for greater strength, lower weight, increased safety margins and improved performance
- White coated double spreader design
- Tapered mast section for reduced weight aloft
- Tapered airfoil swept spreaders
- Custom designed carbon-fiber masthead with sheaves for headsail halyard, main halyard, spinnaker halyard and reacher halyard
- Rod rigging with forged turnbuckles
- Hydraulic backstay and boomvang with remote pump/panel
- Internal halyards
- Harken roller furling for genoa
- Harken roller furling for reacher
- Harken Battcar system for mainsail
- 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
- Bow light with foredeck illuminator
- Mast wiring conduit
- VHF wiring for masthead antenna
- Spartite mast sealing and chock system

Boom:

- White carbon-fiber Pocket Boom with integral sail cover & lazy jacks
- (2) Single line reefs led aft to cockpit winch, allows reefing from the cockpit
- Internal 4:1 outhaul
- Two-part boom topping lift

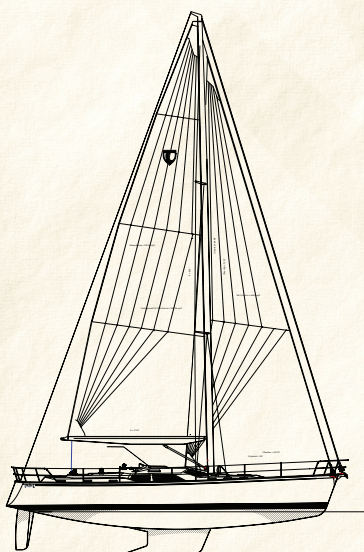
Running Rigging:

- (1) Low stretch genoa halyard
- (1) Low stretch reacher
- (1) Low stretch main halyard
- (2) Dacron genoa sheets
- (2) Dacron reacher sheets
- (1) Dacron mainsheet
- (2) Main traveler taglines
- (2) Adjustable genoa track lead taglines led to cockpit
- (2) Reef lines

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Deck Hardware

- (2) Harken 70.2 STCE (self-tailing chrome electric) primary genoa winches
- (2) Harken 48.2 STCE (self-tailing chrome electric) aft house top-mounted winches for sail controls
- (1) Harken 53.2 STCE (self-tailing chrome electric) mainsheet winches
- (1) Harken 48.2 STC genoa halyard winch mounted on mast
- 30" x 1 1/4" diameter, all-welded stainless steel stanchions, 4 hole mounting base with backing plate installation
- 30" x 1 1/4" tube double stainless steel bow rail with rail-mounted combination navigation light
- 30" x 1 1/4" tube double stainless steel split stern 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
- Chrome windlass, including drum and chain gypsy and chain stop with separate battery forward
- Custom fabricated rail mount chocks for bow mooring cleats
- Stainless steel 12" bow mooring cleats with backing plate
- Custom fabricated mid mooring chocks with 10" stainless steel mooring cleats, installed with backing plates
- Stern stainless steel quarter caps
- Stainless steel 12" aft mooring cleats
- 4" x 1 3/4" teak caprail through-bolted to 6060 T6 aluminum bar in hull flange
- Teak hull rubstrake with stainless steel striker mounted at sheerline
- Teak taffrail
- Polished stainless steel toerail mounted genoa track
- Inboard Harken adjustable lead genoa tracks with wide sheave cars
- (2) Harken aluminum winch handles
- Spinlock rope clutches for aft sail control leads
- Harken over/under style aft lead control blocks
- Harken turning blocks at base of mast for aft sail control leads
- Double ended Harken mainsheet system led to cockpit self-tailing electric winches
- Harken traveler with tagline adjustment
- Cockpit mounted Wichard folding padeyes for safety harness
- Bow and stern mounted padeyes for safety harness jacklines
- Custom stainless steel mast collar with multiple attachments for blocks
- Polished chrome 4" dorades on teak dorade caps
- (3) Stainless steel dorade guards
- Companionway hatch sea hood with instrument pod
- 6" binnacle compass
- Aft on deck storage access through 24" x 24" hatches
- Foredeck locker and chain locker access through 24"x 24" hatch
- 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
- Manual cockpit mounted bilge pump
- Drink holders in cockpit
- Teak cockpit table
- Offshore ready, match molded, and gasketed cockpit seat hatches
- Large hinge down swim platform with stainless steel swim ladder



Tartan 5300 Design Dimensions

LOA.....	53 ft (16.15 m)
LWL.....	46.5 ft (14.173 m)
Beam.....	16.1 ft (4.75 m)

DRAFT

Beavertail.....	6 ft 8 in (2.03 m)
Centerboard up/dn.....	5 ft 6 in/9 ft 6 in (1.68 m)

DISPLACEMENT

Beavertail.....	37,225 lbs (16,885 kg)
Centerboard.....	38,225 lbs (17,339 kg)

BALLAST

Beavertail.....	13,000 lbs (5,897 kg)
Centerboard.....	14,000 lbs (6,350 kg)

CAPACITIES

Fuel.....	125 gal (473.18 l)
Water.....	250 gal (946.42 l)
Auxiliary.....	106 hp
Berths.....	6-8

SAIL DIMENSIONS

Sail area.....	1,387.06 sq ft (128.85 sq. m)
Mainsail area.....	722.26 sq ft (67.18 sq. m)
100% foretriangle.....	664.8 sq ft (61.76 sq. m)
L.....	69.98 ft (21.33 m)
J upwind.....	19 ft (5.8 m)
P.....	65.9 ft (20.09 m)
E.....	21.92 ft (6.68 m)
J reacher.....	20.375 ft (6.21 m)
I reacher.....	73.25 ft (6.8 m)
Bridge clearance.....	80 ft

PERFORMANCE RATIOS

Ballast/displacement.....	35
Displacement/length.....	165
Sail area/displacement.....	20

DesignerTim Jackett

CE approved for category "A" unlimited offshore