

TARTAN 3400 SPECIFICATIONS & FEATURES

Hull

- NPG Isothalic gelcoat for superior gloss retention
- 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 use of resin infusion produces a 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 BPA 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 structure is laminated in "one shot" thus does not rely on secondary bonding of structural materials
- Pound-for-pound an infused epoxy resin laminate is double the strength of a comparable polyester resin laminate providing greater safety margins while delivering superior performance over normal production polyester hulls
- 90 degree throw, Marelon, flush through-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

- 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
- 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 occurrence of common gel coat crazing
- White or off-white gelcoat with patterned, molded non-skid surface on horizontal deck areas
- 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 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

- 3,500 lb. - 4,000 lb. (1588 kg. - 1814 kg.), antimonial hardened lead castings. (depending on draft configuration) for maximum stability
- Template ground for fit and maximum performance
- Faired and epoxy-coated
- Deep fin, beavertail bulb, or keel/centerboard design significantly lowers center of gravity improving righting moment. Result is increased sail carrying ability, performance and safety
- Ballast is thru-bolted to hull with cast in place stainless steel bolts. Quantity and size exceed ABS standard for offshore use

Rudder & Steering System

- Pedestal style rack and pinion steering system
- 40" stainless steel wheel
- Stainless steel pedestal guard
- Single lever engine control with stainless steel handle
- Large Binnacle Compass for easy visibility
- High density, closed cell urethane foam rudder blade with modified epoxy reinforced skins
- 2 1/2 " type 304 stainless steel rudder post
- High density low friction rudder bearings
- Bronze rudder stuffing box
- 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 passage doors in full cherry framed jambs
- 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
- Solid cherry face, dovetail joined, all wood drawers throughout
- Custom solid stock main salon table with inlaid Tartan logo and centerline drawer storage
- Easy maintenance, varnished cherry battened overhead with strategically placed access panels
- Varnished teak and holly cabin sole with extensive teak banded access hatches
- Varnished teak handrails placed for security in a seaway
- Selection of designer fabrics available for interior upholstery

Ventilation

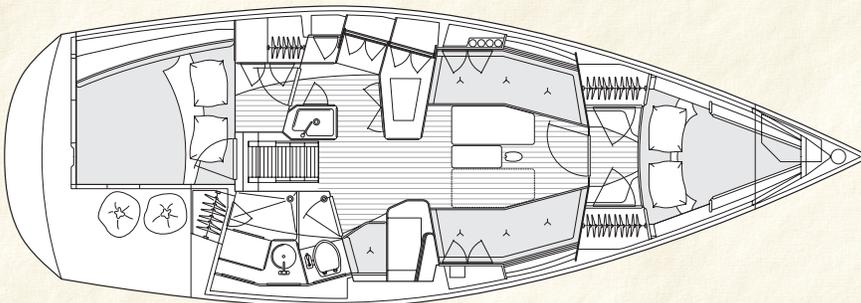
- (3) Stainless steel unlimited offshore CE approved deck hatches
- (8) Cabin side mounted stainless steel opening portlights with fly screens
- (1) Cockpit mounted stainless steel opening portlights with fly screens
- (2) 4" Chrome dorade vents with stainless steel dorade guards
- Lexan sliding companionway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

Engine & Mechanical

- 28 hp diesel saildrive with pedestal mount single lever control
- 25 gallon (95 l) fuel capacity in aluminum tank with remote gauge
- Fuel filter/water separator
- Lead lined engine insulation
- Excellent engine service access front, sides and aft
- Two-blade folding propellor for high performance under power and sailing

Electrical

- Batteries, (2) Group 27
- 30-amp battery charger
- Polished chrome and stainless steel interior lighting
- Service lighting in engine compartment
- Service lighting in cockpit lockers
- Directional reading lights at berths and main cabin settees
- Directional spot lights in galley and over main cabin table
- Cockpit and swim ladder courtesy lighting
- 110 VAC distribution panel
- 110 VAC outlets in each cabin with GFI protection
- 30-foot shore power cord
- 12 VDC 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 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
- Courtesy floor lighting
- High water bilge alarm



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Galley & Plumbing

- 2 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
- 9" deep molded Granicote single sink with 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
- 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 waterline hose connections are double stainless steel clamped for added security
- Premium marine grade hoses used throughout
- 60 gallons (227.12 liters) of freshwater tankage with distribution manifold
- Forespar Marelon thru-hull fittings throughout, UL approved and corrosion- free
- 6 gallon (27.71 l) water heater, operates on 110 VAC or engine heat exchanger

Head

- Marine head with 20-gallon (75.7 liters) holding tank w/deck pump out and vent
- Marine premium grade sanitation hoses with low odor permeability
- Shower drains to separate sump with automatic electric pump for overboard discharge
- Y-valve with direct overboard discharge throughhall
- Premium marine grade head faucet and shower mixer
- Molded Granicote solid surface counter tops with integral sink
- Utility storage under sink through raised panel cherry door
- Ample storage in upper vanity
- Macerator pump for holding tank

Accommodations & Storage

- Forward cabin with extensive lockers, hanging locker and dovetail drawers
- Approximately 78" x 60" forward berth
- 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 center storage bin and two dovetail drawers
- Full navigation station
- Navigation lockers with installation space for extensive electronics
- Aft cabin with a double berth, hanging locker and shelves
- Storage below berths
- Cockpit seat locker
- Cockpit lazarette hatch starboard
- Propane gas bottle storage in cockpit for 11 lb. (5kg.) tank

Spars & Rigging

Mast:

- Carbon-fiber mast for greater strength, lower weight, increased safety margins and improved performance
- White coated mast
- Tapered mast section for reduced weight aloft
- Tapered airfoil swept spreaders
- Custom designed carbon fiber masthead with sheaves for 1 headsail halyard, 1 main halyard, 1 reacher halyard and optional spinnaker halyard
- Carbon fiber backstay crane integrally molded at lamination
- 1 x 19 Stainless steel wire rigging with forged turnbuckles
- Internal halyards
- Harken furler for self-tacking jib
- Harken furler for masthead reacher
- Mast to deck tie rod to carry running rigging loads
- Masthead anchor light
- Custom designed stainless steel chainplate system ties to extensive internal FRP structure and hull
- Bow light with foredeck illuminator
- Mast wiring conduit
- VHF wiring for masthead antenna
- Spartite mast sealing and chock system

Boom:

- Carbon-fiber Pocket Boom with sail cover
- (2) Single line reefs led aft to housetop winch, allows reefing from the cockpit
- Internal 4:1 outhaul
- Two-part boom topping lift
- Rod vang with tackle led aft
- Integral lazy jack system

TARTAN 3400 SPECIFICATIONS & FEATURES

Spars & Rigging cont'd

Running Rigging:

- (1) Low stretch genoa halyard
- (1) Low stretch reacher halyard
- (1) Low stretch main halyard
- (1) Dacron jibsheet
- (2) Dacron reacher sheets
- (1) Dacron mainsheet

- (2) Main traveler taglines

- (2) Reef lines

Sails:

- Fully-battened Dacron mainsail
- Dacron self-tacking jib
- Light weight masthead reader

Deck Hardware

- (2) Harken 32.2 STC (self-tailing chrome) aft house top-mounted winches for sail controls and mainsheet
- (2) Harken 40.2 STC (self tailing chrome) cockpit winches
- Harken self-tacking jib traveler
- 24" x 1" diameter, all-welded stainless steel stanchions, 4-hole mounting base with backing plate installation
- 24" x 1" tube double stainless steel bow rail with rail-mounted combination navigation light
- 24" x 1" tube double stainless steel split stern rail with rail mounted navigation light
- 7 x 19 double lifelines with port, starboard, and stern boarding gates with pelican hooks
- Custom designed and fabricated stainless steel stem fitting with integral single bow roller
- Stainless steel 10" bow mooring cleats with backing plate
- Custom fabricated mid mooring chocks with 8" stainless steel mooring cleats, installed with backing plates
- Stern stainless steel quarter caps
- Stainless steel 10" aft mooring cleats
- 2" x 1 1/2" teak toerails through-bolted to 6060 T6 aluminum bar in hull flange
- Teak taffrail

- Outboard genoa track for reacher
- (2) Harken aluminum winch handles
- (8) Spinlock rope clutches for aft sail control leads
- Harken stacked double aft lead control blocks
- Harken turning blocks at base of mast for aft sail control leads
- Four-part Harken mainsheet system led to housetop self-tailing winch
- Harken traveler with four-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 teak dorade caps
- Companionway hatch sea hood with instrument pod
- Binnacle compass
- Match molded anchor locker lid with 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
- Manual cockpit mounted bilge pump
- Drink holders in cockpit
- Offshore ready, match molded, and gasketed cockpit seat hatches

Tartan 3400 Design Dimensions

LOA.....	34 ft 5 in (10.5 m)
LWL	30 ft 5 in (9.27 m)
Beam	11 ft 11 in (3.63 m)

DRAFT

Fin.....	6 ft 6 in (1.98 m)
Beavertail.....	4 ft 11 in (1.5 m)
Keel/Centerboard	3 ft 11 in/7ft (1.2 / 2.13 m)

DISPLACEMENT

Fin	10,800 lbs (4899 kg)
Beavertail.....	11,000 lbs (4990 kg)
Keel/Centerboard	11,800 lbs (5353 kg)

BALLAST

Fin.....	3,500 lbs (1588 kg)
Beavertail.....	3,700 lbs (1678 kg)
Keel/Centerboard	4,000 lbs (1814 kg)

CAPACITIES

Fuel	25 gallons (94.64 liters)
Water	60 gallons (227.12 liters)
Auxiliary	27 hp diesel saildrive
Berths.....	6

SAIL DIMENSIONS (with 100% self-tacking jib)

Sail Area	620.18 sq ft (57.67 sq m)
I.....	46 ft 0 in (14.02 m)
J.....	12 ft 9 in (3.89 m)
P.....	44 ft 4 in (13.51 m)
E.....	14 ft 9 in (4.5 m)
Mainsail Area	326.93 sq ft (30.4 sq m)
100% Foretriangle.....	293.25 sq ft (27.27 sq m)

SAIL DIMENSIONS (with 155% stem-mounted reacher)

Sail Area	856.12 sq ft (79.68 sq m)
I.....	49 ft 8 in (15.14 sq m)
J.....	13 ft 9 in (4.2 m)
Reacher Sail Area	529.19 sq ft (49.28 sq m)
Spinnaker pole length.....	13 ft 9 in (4.2 m)

Bridge Clearance	55 ft (16.76 m)
Ballast/displacement.....	.34
Displacement/length.....	171.3
Sail area/displacement.....	18.8
RM @ 1 degree	980 ft lbs
Designer	Tim Jackett

CE approved for category "A" unlimited offshore

Specifications subject to change • Updated September 2011

