

TARTAN 345 // STANDARD SPECIFICATIONS

HULL

- NPG Isophthalic gelcoat
- Modified epoxy vinylester laminating resin
- CNC computer cut closed-cell synthetic foam coring
- Locally reinforced in high-load areas
- Laminated in “one shot” resin infusion process eliminating secondary bonding of structural materials
- All hull penetrations made through solid E-glass laminate “core windows”
- Interior surfaces painted out for aesthetics
- Internal structural grid designed to carry rig and keel loads, bonded and glass-taped into hull
- UL and ABS approved, corrosion free Marelon flush through hull fittings
- Built to meet ABS Plan Certification
- Transferrable 10-year hull structural and blister warranty

DECK

- NPG Isophthalic gelcoat
- Modified epoxy vinylester laminating resin
- CNC computer cut sealed end-grain balsa coring
- Locally reinforced in high-load areas
- Laminated in “one shot” resin infusion process eliminating secondary bonding of structural materials
- All deck penetrations made through solid E-glass laminate “core windows”
- Interior surfaces painted out for aesthetics
- Molded nonskid surface on working areas
- 6061 T6 aluminum backing plates added at lamination for all loaded hardware
- Inward-facing hull flange with integrally molded 6061 T6 aluminum bar forming a full length backing plate for hull-to-deck joint
- Hull-to-deck joint fasteners, stainless steel and meet or exceed ABS standard for offshore use
- Hull-to-deck joint bonded with 3M 5200 adhesive sealant

KEEL & BALLAST

- Deep fin bulbed keel, beavertail bulbed keel, or (optional) keel/centerboard configuration
- Antimonial hardened lead keel castings
- Template-ground for fit and maximum performance
- Faired and epoxy coated
- Keel is through bolted to hull with cast-in-place stainless steel bolts
- Keel bolt 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
- Lighted binnacle compass
- High density, closed-cell foam rudder blade with reinforced skins
- 2 1/2” diameter, type 304 stainless steel rudder post
- High density, low friction rudder bearings
- Bronze rudder stuffing box
- Emergency tiller

DECK HARDWARE

- (1) Harken 32.2 STC Radial (self-tailing chrome) main halyard winch
- (1) Harken 32.2 STC Radial (self-tailing chrome) cabin top winch
- (2) Harken 40.2 STC Radial (self-tailing chrome) cockpit winches
- Harken self-tacking jib traveler
- 24" x 1" diameter stainless steel stanchions
- 24" x 1" tube double stainless steel bow rail with navigation light
- 24" x 1" tube double stainless steel split stern rail with navigation light
- 1 x 19 double lifelines with port, starboard, and transom boarding gates
- Stainless steel stem fitting with integral bow roller
- Stainless steel 10" bow mooring cleats
- Stainless steel bow mooring chocks
- Stainless steel 8" mid-ship mooring cleats
- Stainless steel mid-ship chocks
- Stainless steel 10" aft mooring cleats
- Aluminum slotted toe rails
- (2) Harken aluminum winch handles
- Custom stainless steel mast collar with attachment points for mast-base blocks
- Harken turning blocks at base of mast for leading sail controls aft to cockpit
- Spinlock rope clutches on cabin top for aft led sail controls
- Harken mainsheet and traveler systems led to cabin-top winches
- Harken stacked, double, aft lead control blocks
- Companionway hatch sea hood with instrument pod
- Match molded anchor locker lid with latch
- Deck drains to waterline discharge, eliminates hull streaking
- Stainless steel cabin top handrails
- Cockpit mounted manual bilge pump
- Offshore ready, match-molded and gasketed cockpit seat hatches

VENTILATION

- (3) Stainless steel CE unlimited offshore approved deck hatches
- (8) Cabin-side mounted stainless steel portholes with fly screens
- Cockpit-mounted stainless steel porthole with fly screen
- ((2) polished chrome 4" cowl vents on teak Dorade boxes with stainless steel guards
- Lexan sliding companionway hatch with solid teak hatch boards and trim

ENGINE & MECHANICAL

- 30 hp diesel saildrive with two-blade fixed propeller
- 25-gallon fuel capacity in aluminum tank with remote gauge
- Fuel filter/water separator
- Lead-lined engine insulation
- Engine service access forward, sides, and aft

ELECTRICAL

- (2) AGM Group 27 batteries
- 30A battery charger
- Polished chrome and stainless steel interior lighting fixtures with LED lights
- Courtesy floor lighting
- Service lighting in engine compartment and cockpit lockers
- Directional reading lights at berths and main cabin settees

ELECTRICAL (continued)

- Directional spot lights in galley and over main cabin table
- 110 VAC distribution panel
- 110 VAC outlets in each cabin with GFI protection
- 12 VDC metered distribution panel
- Battery selector switch
- ABYC compliant color coded wiring throughout
- UL approved, stranded, tinned, copper wiring
- All wiring is chafe-protected where it passes through internal structure
- Wiring bundled in PVC conduit with room for future installations
- 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
- High-water bilge alarm
- USCG approved navigation lights on bow rail, stern rail, and mast

INTERIOR

- Structural fiberglass timbers taped to hull to carry mast and keel loads
- Structural bulkheads bonded to hull and deck
- Maple-faced bulkheads and risers
- Solid stock maple trim throughout
- Solid stock raised panel maple passage doors
- Polished chrome, mortised door lock sets
- Solid stock maple cabinet faces throughout
- Positive lock polished chrome cabinet hardware
- Solid maple-faced, dovetail joined, all-wood drawers throughout
- Maple-battened overhead with strategically placed access panels
- Varnished teak handrails placed for security in a seaway
- Interior woodwork sprayed with satin finish solvent and UV resistant conversion varnish
- Selection of designer fabrics available for interior upholstery

ACCOMMODATIONS & STORAGE

- Forward cabin with storage lockers, hanging locker, and dovetail drawers
- Approximately 78" x 60" forward berth
- Furniture-grade main cabin settees and seats with contoured cushions
- Maple cabinets with ventilated raised panel doors throughout main cabin
- Storage outboard of main cabin seat backs
- Main cabin table folds up to mast for exceptional available floor space
- 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 to starboard
- LPG gas bottle storage in cockpit for 11-lb tank

GALLEY & PLUMBING

- Two-burner Force 10 gimballed LPG stove with oven and broiler
- LPG sniffer with automatic shut off
- Maple-faced cabinetry with raised panel access doors
- Maple-faced, dovetailed cutlery drawers
- 9" deep, molded Granicoat single sink with marine grade galley faucet and manual foot pump with swivel spigot
- Granicoat solid surface galley countertops
- Storage under galley sink through ventilated raised panel Maple doors
- Molded icebox with Granicoat solid surface counter and 4" foam insulation, front and top access
- Hot and cold pressure water with service access to pump and plumbing
- Polyethylene tubing and Whale mechanical fittings for freshwater plumbing
- All below waterline hose connections are double-clamped with stainless steel hose clamps
- Premium marine-grade hoses used throughout
- 60 gallons of freshwater tankage with distribution manifold
- 6-gallon water heater, operates on 110 VAC or engine heat exchanger

HEAD

- Manual marine head with 20-gallon holding tank
- Deck pump out with vent
- Low-odor premium grade marine sanitation hose
- Shower drains to sump box with automatic overboard discharge
- Premium, marine-grade head faucet and shower mixer
- Molded Granicoat solid surface counter top with integral sink
- Utility storage under sink through raised panel maple door
- Solid maple-faced upper vanity cabinet with storage

SPARS & RIGGING

MAST

- Carbon-fiber mast with integrally molded carbon-fiber masthead
- Double tapered airfoil aluminum spreaders
- 1 x 19 Stainless steel wire rigging with forged turnbuckles
- Internal halyards
- Internal, single-line lazy jack system
- Furler for self-tacking jib
- Mast-to-deck tie rod to carry running rigging loads
- Masthead anchor light
- Steaming light with foredeck illuminator
- Mast wiring conduit
- Custom stainless steel chainplate system links to structural fiberglass grid in hull
- Spartite mast sealing and chock system

BOOM

- Painted aluminum boom with stack pack mainsail flaking system
- (2) Single line reefs led aft to cabin-top winch
- Internal 2:1 outhaul led aft to cabin-top winch
- Two-part boom topping lift
- Rod vang with tackle led aft

SPARS & RIGGING (continued)

RUNNING RIGGING

- Polyester double-braid jib sheet, mainsheet, and reacher sheets
- Polyester double-braid main traveler control lines

SAILS

- Fully-battened Dacron mainsail with Sunbrella sail cover
- Dacron self-tacking jib



440.392.2628

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DESIGN DIMENSIONS

LOA	34 ft 5 in
LWL	30 ft 5in
Beam	11 ft 11 in

DRAFT

Deep Fin	6 ft 6 in
Beavertail	4 ft 11in
Keel/Centerboard	3 ft 11 in/6 ft 11 in

DISPLACEMENT

Deep Fin	10,800 lb
Beavertail	11,000 lb
Keel/Centerboard	11,500 lb

BALLAST

Deep Fin	3,500 lb
Beavertail	3,700 lb
Keel/Centerboard	4,200 lb

CAPACITIES

Fuel	25 gal
Water	60 gal
Auxiliary	30 hp diesel saildrive
Berths	6

SAIL DIMENSIONS

I, self-tacking jib	46 ft
J, self-tacking jib	12 ft 9 in
I, 155% reacher (optional)	49 ft 8 in
J, 155% reacher (optional).....	13 ft 9 in
P	44 ft 4 in
E	14 ft 9 in
Mainsail area	326.93 sq ft
100% foretriangle	293.25 sq ft
Upwind sail area (main & self-tacking jib)	620.20 sq ft
Offwind sail area (main & reacher)	856.23 sq ft
Bridge clearance	55 ft

PERFORMANCE RATIOS

Ballast/displacement ratio	34
Displacement/length ratio	171.3
Sail area/displacement ratio (upwind)	20.4
Sail area/displacement ratio (offwind)	28.13
Righting moment @ 1 degree	980 ft lb

Designer

Tim Jackett



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