

TARTAN 412

Design comments by Tim Jackett

The **Tartan 412** features a long waterline medium displacement hull form with fullness in the ends coupled with firm U-shaped sections. The **Tartan 412** offers performance easily realized by the short handed cruiser and appreciated by the racing sailor. The even distribution of hull volume produces a shape which stays uniform and balanced as the boat heels.

Two keels are offered, a deep fin (7' 6", 7600 lbs.) and a shoal draft Scheel (TM) keel (5' 1", 7600 lbs.). The ballast is carried low giving the **Tartan 412** the ability to comfortably utilize her powerful sailplan. A balanced spade rudder, on a properly sized 304 S.S. shaft offers both low resistance and maximum control.

The tall masthead, double spreader, tapered rig features a large mainsail and high aspect ratio fore triangle for easy sail handling. Mainsail sheeting is on a housetop traveler and the headsail is sheeted to adjustable inboard genoa tracks for upwind work and a rail mounted track for reaching and running.

The **Tartan 412** deck design anticipates frequent short-handed sailing and is engineered for safety and comfort. All sail controls are led to house-top winches, including single line reefing allowing the main to be shortened from the cockpit.

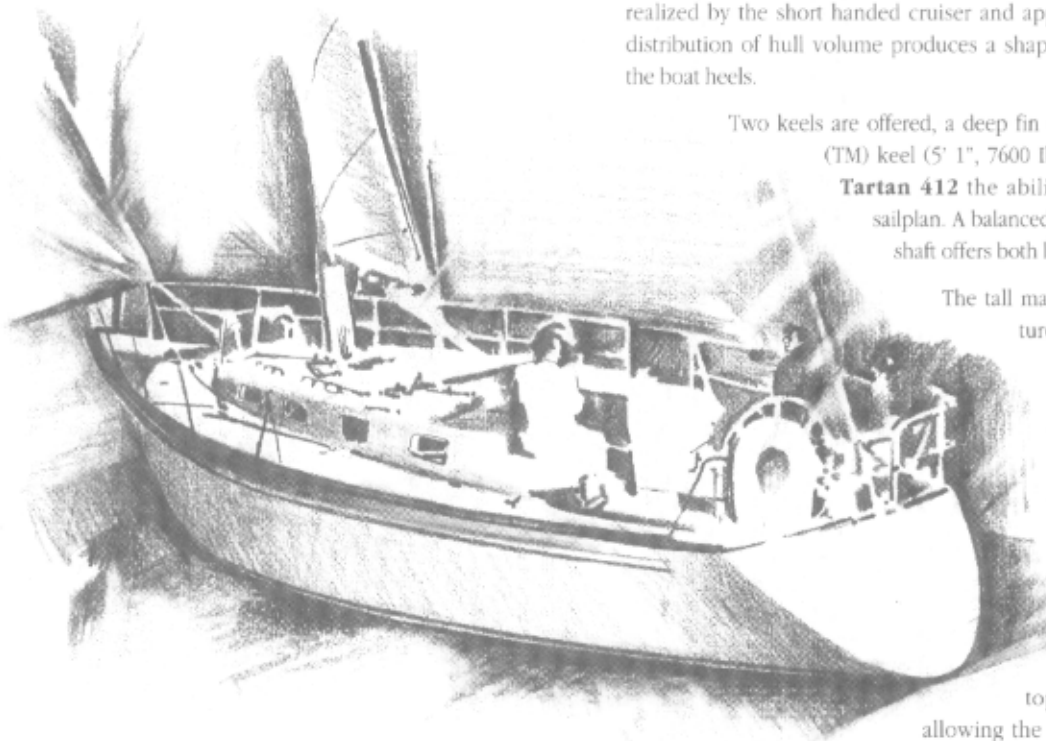
Double rails, lifelines and a tall teak rail offer crew security on her wide side decks and large foredeck. The cockpit has comfortable seating both at the dock and sailing. The helm position offers a raised hump seat for excellent forward visibility.

Forward and aft staterooms, each served by a private head, highlight the accommodation plan. The forward cabin berth is 6' 8" long and 6' 9" wide with abundant storage in drawers, lockers and shelves. Ventilation forward is provided by two dorades, two 7" x 10" vent hatches and the 24" x 24" foredeck hatch. The aft cabin adjoins a full head with separate stall shower and a 6' 7" x 6' 0" berth, ample storage and excellent ventilation. All bunk cushions are 6" firm foam.

In the main cabin, a drop leaf, adjustable table is flanked by a U-shaped settee to port and two over stuffed chairs to starboard. Lockers outboard with storage, liquor locker and an entertainment cabinet complete the main cabin. The galley and nav station are to port and aft. A 3-burner CNG stove with oven and broiler, double sinks, hot and cold pressure water, an icebox and generous locker space are a few of the features of the galley. The nav table is large and the cabinet arrangement allows full utilization of available electronics.

Her interior fit and finish continues in the Tartan tradition; hand oiled, satiny smooth teak cabinetry, teak louvered locker doors and teak faced plywood bulkheads and risers. Ventilation is provided by 6 deck hatches, 11 aluminum opening ports and 4 dorades.

The **Tartan 412** gains from our successful *Tartan 40*, incorporating many of the custom features which *T-40* owners have specified. Since all tastes cannot be filled with a "one size fits all" mentality, customization is welcomed on the **Tartan 412** to produce a uniquely individual yacht.



VITAL STATISTICS

Sail Area	756.5 sq. ft.
I - Foretriangle Height	53'0"
J - Foretriangle Base	16'0"
P - Mainsail Luff	47'6"
E - Mainsail Foot	14'0"
Bridge Clearance	59'0"
LOA	41'2"
LWL	31'5"
Beam	12'8.5"
Draft: Deep Fin	7'6"
Scheel Keel	5'1"
Ballast	8,000 lbs
Displacement	18,500 lbs
Diesel Power	Universal 44
Berths	7

SPECIFICATION

HULL

- White NGP/ISO gelcoated hull, hand laminated with alternating layers of stand mat and uni-directional "E" glass. Fully balsa cored for stiffness. Gel-coat back-up layer is laminated using styfoester anti-corrosive resin for blister resistance.

DECK

- White, off-white or sand gelcoat with a patterned non-skid deck, consisting of a balsa cored uni-directional "E" glass laminate. Hand laid with polyester resin.

KEEL/BALLAST

- 8000 lb. high lift lead fin or patented Scheel CDM keel. Attached to hull with stainless steel bolts.

RUDDER

- Foam cored rudder blade with uni-directional FRP skins. 3/2" Q.D. 304 stainless steel rudder post. Pedestal steering with 44" s.s. wheel. Emergency tiller supplied.

INTERIOR

- Structural fiberglass floor timbers bonded to hull. Bulkheads and ribs are teak faced or pressure laminate faced plywood. Cabinetry and trim of hand ribbed teak. Cabin sole is varnished teak and holly. The overhead liner is teak battened FRP with strategically placed access panels. A selection of designer fabrics is available for interior upholstery.

VENTILATION

- Forward Stateroom: (1) 24" x 24" Lewmar Deck Hatch (1) 7" x 12" Lewmar Deck Hatch (2) 4" Chrome Dorades with Guards
- Aft Stateroom: (1) 10" x 10" Lewmar Deck Hatch (1) 4" x 17" Bowmar Portlight (2) 4" x 14" Bowmar Portlights
- Forward Head: (1) 7" x 12" Lewmar Deck Hatch
- Aft Head: (1) 4" Chrome Dorade with Guard (1) 4" x 7" Bowmar Portlight
- Main Cabin: (4) 4" x 17" Bowmar Portlights (1) 16" x 16" Lewmar Deck Hatch (1) Companionway Hatch
- Galley: (1) 4" Chrome Dorade with Guard (2) 4" x 17" Bowmar Portlights (1) 10" x 10" Lewmar Hatch

ENGINE/ELECTRICAL

- 44 HP Universal diesel with pedestal mount controls and instrument panel
- 50 gallon fuel capacity (approximately) with Racor fuel filter
- 17" fixed propeller on stainless shaft
- (2) 105 amp hour batteries with battery selector switch
- Interior cabin dome lights and berth directional lights
- Courtesy night lighting
- Navigation lights
- Electric bilge/auto-sump pump
- 1.2V DC metered panel
- 11.0V AC shorepower with distribution panel
- 50' shorepower cord
- 10 gallon stainless steel hot water heater

GALLEY

- 3 burner gas/balbed CNG stove with oven
- Double stainless steel galley sinks - 9" deep
- Molded top and front lead icebox, (refrig. optional) 4" foam insulated
- Built-in trash bin
- Hot and cold pressure water and manual freshwater hand pump
- Extensive lockers, shelves and drawers. Teak covered doors and teak hardwood
- 120 gallons fresh water (aluminum tank with gauge)

HEADS

- (2) Marine heads with "Y" valves and 10 gallon holding tanks with deck pumpouts
- (2) Shower fixtures in heads with drain to sump
- Molded FRP sinks

ACCOMMODATIONS/ STORAGE

- Forecabin with lockers, hanging locker, and 4 drawers; berth is 7'0" x 6'9"
- Furniture grade bunk cushions and seats
- Main cabin with teak hardwood cabinetry throughout
- Main cabin settees fitted with 6" thick tapered cushions
- Large storage area outboard of main cabin seatbacks
- Furniture quality, varnished pedestal table
- Full navigation station
- Navigation locker with storage space for electronic installations
- Aft double quarterberth with furniture quality cushions, 6'7" x 6'0"

- Storage below quarterberth
- Cockpit seat locker to port
- Helmseat storage to port and optional propane gas storage to starboard

SPAR/RIGGING

Mast:

- Polyurethane finished double spreader, tapered mast
- 1" x 19" stainless steel standing rigging with turnbuckles
- Bow light foredeck illumination light
- Masthead light
- Mast wiring conduit
- Internal halyards

Boom:

- Polyurethane finished boom
- Single line slab reefing—one line reefs both luff and leech
- Internal 4:1 outhaul led aft to cockpit
- (4) sheave outboard end
- (4) sheave inboard endcap
- 2-part boom topping lift

DECK HARDWARE

- (2) Lewmar #56 CST (self tailing) primary winches
- (2) Lewmar #40 C Halyard aft lead winches
- (1) Lewmar #43 CST mainsheet winch
- Double stainless steel bow and stern rails
- Double lifelines
- Swim ladder
- Boarding gates port and starboard
- Custom stainless steel stemplate with tackline and anchor roller
- Teak toe rails aluminum toe rails optional
- Teak and stainless hull rubstrate
- S.S. bow mooring chocks with stainless steel cleats
- S.S. mid mooring chocks with stainless steel cleats
- S.S. stern chocks with stainless steel cleats
- Teak tuffrail
- Outboard track 1 1/4" with (2) cas and (2) snatch blocks
- Inboard genoa track Harken hull bearing with (2) wide sheave cas
- (5) Lewmar winch handles
- (5) Spinelock Express rope clutches for all leads
- Deck turning blocks for halyards and all leads
- 4-part mainsheet system lead to winch
- Mainsheet traveler with ratchet adjustment
- Cast aluminum mast collar with stainless all lead plates
- On deck drains to waterline outlet
- Hoosestop teak handrails
- Manual deck mount bilge pump
- Ritchie SP-5 bimini compass
- Fore and aft dorade guards

RUNNING RIGGING

- (1) wire rope genoa halyard
- (1) low stretch main halyard
- (2) Dacron genoa sheets
- (1) Dacron mainsheet
- (2) traveler taglines
- (2) reeflines
- (2) Adjustable genoa car taglines

OPTIONS

- Colored hull
- Contrasting non-skid color
- Deep or Scheel CDM keel (no charge)
- 40 amp battery charger
- Propane stove with oven
- Spreader gear
- 2nd internal genoa halyard led aft
- Boom vang
- Steel storage cradle
- Ship shades
- Secondary winches

TARTAN

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Qualifications: Specifications and prices subject to change without notice including after receipt of customer's order and final delivery.

All prices P.O.B., Grand River, OH

