

***TIEN HOU* Specifications and Equipment List**

See Also: ***Tien Hou*** [History and Narrative](#)



Photo 1 - Tien Hou under sail

DESCRIPTION

Type:	Auxiliary Cruising Ketch
Designer:	Reuel B. Parker
Builder:	Parker Marine Enterprises
Model:	Lorcha 50 (Photo 2)
Year Launched:	2002
Type:	Gaff rigged center cockpit ketch
Construction:	Cold-molded wood; marine plywood fully wrapped in epoxy-impregnated Xynole

SPECIFICATIONS

Length Sparred:	65'
LOA:	50'
Length on Deck:	48'
LWL:	41' 5"
Beam:	13' 1"
Draft:	3' 2" keel up/ 6' 5" keel down
Air Draft:	42' with gaff lowered
Displacement:	26,000 lb.
Ballast:	8,000 lb. lead (incl. 3500 lb in lifting keel) + 3750 lb. fuel and water below waterline
Hull Speed:	8.6 kt
Sail Area:	Working – 795 ft ² Total – 1215 ft ²
Engine:	Yanmar 4JH4E 4-cylinder diesel (54 hp @ 3000 rpm); 2500 hours
Steering:	Mechanical – 5/8" chain on helm turns solid 1" ss jack shaft driving bronze & ss rack & pinion on rudder quadrant that's keyed directly to rudder shaft
Tankage:	Integral, below waterline; fuel – 210 gal, water – 300 gal, holding – 35 gal
Cruising Range:	Over 1500 miles at 7.5 kt 2500 rpm - using less than 1 gallon/hr
Accommodations:	Sleeps 8; two in forward cabin, four in main salon, two in aft cabin
Dinghy: (Photo 3)	2025 Gig Harbor 10' rowing dinghy on stern davits ; 2.5 hp Yamaha 4 stroke

ACCOMODATIONS & LAYOUT

Master Cabin Aft: Transom gallery fixed ports; queen berth, two hanging lockers, overhead and reading lights; two Lewmar Ocean 40 hatches Caframo fan ([Photo 4](#))

Center Cockpit:

- Hard dodger & windshield (center removable for ventilation), side curtains
- 4' x 4' engine hatch (complete standing access to all sides of engine) ([Photo 5](#))
- 6' cockpit bench/pilot berth to port w/ two lockers under ([Photo 6](#))
- Helm station to starboard, 30" wheel, single lever Morse engine control ([Photo 7](#))
- Enclosed head w/ toilet, wash basin, hand-held shower, pressure water ([Photo 8](#))

Salon Cabin:

- 56" x 20" desk & 30" x 36" chart table to starboard w/ chart storage under ([Photo 9](#))

- U-shaped galley to port ([Photo 10](#)); top-loading DC Isotherm 4 ft³ reefer/freezer; Seaward Princess 3-burner propane stove w/ oven; full size sink w/ hot and cold pressure water plus fresh water foot pump ([Photo 11](#))
- Full size double berths port and starboard; flip up dining table between ([Photo 12](#))
- two Lewmar Ocean 40 hatches, four Lewmar size 5 standard opening portlights, custom dorade/skylight ([Photo 13](#)), four Caframo DC fans
- 5 overhead and 2 reading lights

Hold/Workshop: 12' x 5' "cargo hold" with 6' headroom; 16" deep work bench w/2 vices; storage lockers and shelves for materials, supplies, tools, and spares

Forward Cabin: Twin 7' long v-berths w/reading lights; Lewmar Ocean 40 hatch ([Photo 14](#))

Rode Lockers: Chain locker under forward cabin v-berths; rope locker in forepeak

RIG

Jib Topsail - 190 ft²: Yankee-cut Dacron flying jib by Calvert Sails, 2005, excellent condition

Staysail jib – 150 ft²: Hank-on Dacron club footed jib by Calvert Sails, 2005; good condition

Mainsail – 520 ft²: Laced-on Dacron gaffed mainsail with full-length battens by North Sails; 2017, lazy jacks, excellent condition

Mizzen – 125 ft²: Laced on Dacron on sprit by Calvert Sails, 2005; lazy jacks, good condition

Miz. Staysail – 230 ft²: Nylon drifter by Schurr Sails, 2012; excellent condition

Spars:

- Bowsprit – tapered aluminum tubing
- Main & Mizzen - keel-stepped hollow box Douglas fir and epoxy

Standing Rigging: 3/8" SS wire with Norseman terminals

Running Rigging: 7/16" and 1/2" double braid and 3-strand polyester

- All halyards are block and tackle
- All sheets tended from cockpit
- Jib topsail, staysail jib, and mizzen staysail sheets, lead to Anderson 46ST self-tailing two speed winches
- Main and mizzen sheets are block and tackle, lead to pin rail aft of cockpit

Reefing:

- Jib topsail – Pro Furl NC-32 roller reefing
- Staysail – NA
- Main – jiffy slab reefing
- Mizzen – NA

PLUMBING

- Galley: Hot and cold pressure fresh water plus foot-operated Whale Gusher fresh water
- Head: Hot and cold pressure fresh water sink with faucet/shower head combo on 6' hose
- Toilet: SeaLand 911-M28 electric marine toilet; selectable fresh or sea water flush
- Deck: Jabsco high pressure washdown pump; outlets at bow and on aft deck; selectable raw or hot/cold fresh water
- Bilge: 3 x bilge pumps –
- Jabsco 4.5 gal/min self-priming diaphragm pump, #101 Water Witch sensor
 - Rule 25 gal/min submersible pump, Groco AS-100 pressure sensor
 - Guzzler 600 12 gal/min (2" inlet/outlet) fixed manual emergency pump
- Hot Water: Torid Marine Systems model MVS 10, 10 gallon, stainless outer sheath, glass lined inner tank, engine coolant heat exchanger plus 110 v, 1500 W heating element
- Raw Water:
- Groco SA-100 ¾" inlet/outlet strainer w/ stainless basket
 - SpeedSeal Easy Slider engine impeller cover plate
- Fuel Filters:
- Primary - RCI Technologies model FP fuel purifier/water separator
 - Secondary – Parker Racor 120A spin on filter/water separator
 - Tertiary – Yanmar engine-mount final filter

ELECTRICAL SYSTEM

DC

House Bank:	6 x 100 AH Duracell 27M Ultra AGM; purchased 2023
Start:	1 x 55 AH Duracell 12-55P Ultra AGM; purchased 2023
Battery Management:	Blue Seas – 5511E Dual Circuit battery switch + 7610 ACR relay
House circuit:	New Mar/UPM with 15 circuit breakers
High-amp Circuit:	Keel & anchor winches & inverter on dedicated circuit using <ul style="list-style-type: none">• 00 gage tinned copper cable• 500 amp fuse• Blue Sea Systems 150 amp thermal-trip waterproof breaker/switch
Battery Monitoring:	Xantrax Link 200-R dual-bank status & volt/amp/amp-hour meter
Primary Charging Source:	2 x 255 watt LG solar panels (Photo 15)
Solar Control:	Midnite Solar Kid 30 amp MPPT Controller
Secondary Charge Source:	Balmar 200 amp alternator w/ serpentine belt & pulleys, tensioner
Alternator Control:	Balmar MC-614 multi-stage programmable voltage regulator
Tertiary Charge Source:	Charles 30-amp multi-stage programmable AC to DC charger

AC

Shore Power:	2 x Marinco 25' 30 amp cords; 50 amp to 30 amp receptacle adapter
Ground Isolation:	ProMariner ProSafe galvanic isolator
House Power:	2500 watt DC-AC Inverter
Distribution :	Blue Seas main plus 6 individual circuit breaker panel
AC Access:	11 x 110 v receptacles throughout vessel

Nav Lights

Running Lights:	Aqua Signal Series 34 LED
Steaming/Foredeck:	Aqua Signal mast-mount combo
Masthead:	Orca Green Marine LXTA-XP LED multilight, including – <ul style="list-style-type: none">• photodiode control• tricolor• anchor• strobe

INSTRUMENTATION

Fully integrated and networked Raymarine system -

Chart Plotter/Display: C-120 12" display on swivel mount - viewable at helm ([Photo 16](#)) or nav station ([Photo 17](#))

GPS Receiver: RS 130 antenna

Radar: RD218 2 kW radome mounted on mizzen

Auto Pilot:

- Smartpilot SPX 10 corepack course computer
- Type 1 rotary drive unit (chain)
- Autohelm remote fluxgate compass
- Rudder position sensor

Sounders:

- DSM 30 digital sounder module
- DST800 Triducer Multisensor (depth, speed, temperature) transducer
- Auxiliary T912 depth transducer

Weather Access: SR50 Sirius Marine Weather Receiver and antenna

Cockpit Displays:

- C-120 chart plotter
- ST60 Tridata (depth, speed, water temp.)
- ST60+ Rudder angle indicator
- ST60+ wind speed and direction (apparent and true)
- ST7000 Plus autopilot display and controller

Compass: Ritchie Powerdamp Plus, 5" card

Barometer: Salem w/ 3.5" dial, compensated

Chronometer: Weems & Plath, quartz w/ 3.5" dial

Sextant: Davis Instruments Mark 3

VHF Radio:

- ICOM model IC- M602, DSC; Shakespeare 4200 antenna on main mast
- Two ICOM IC -M1V handheld transceivers

AIS Radio: AIS250 class B radio module; Shakespeare 4200 antenna on mizzen mast

Stereo: JVC model KD SX36MBT w/ Bluetooth, aux input; salon & cockpit speakers

SW/MW/LW Radio: Kaite KA1103 multi-band receiver only; can output WEFAX to printer or laptop

GROUND TACKLE

Rode:	300' of 1" plaited nylon plus 50' of 3/8" galvanized chain
Chain:	200' of 3/8" galvanized chain
Primary Anchor:	44 lb. Spade model 100
Secondary Anchor:	50 lb. CQR plow
Tertiary Anchor:	43 lb. Danforth model S2
Specialty Anchor:	75 lb. fisherman's (yachtsman's)
Storm Anchor:	100 lb. Danforth model S3
Sea Anchor:	42" Galerider Drogue
Windlass:	Lunenburg Foundry bronze manual; professionally electrified (Photo 18) <ul style="list-style-type: none">• Reversing• Foot operated deck switches plus helm-mounted switches• Full manual capability retained for back-up

MISCELLANY:

Dozens of charts, chart kits, cruising guides, and reference books, including:

- Chapman, "Piloting, Seamanship, and Small Boat Handling"
- Nigel Calder, "Cruising Handbook"
- Donald Street, "Seawise"
- Ian Nicholson, "Boat Data Book"
- Edgar Boyn, "The 12 Volt doctor's Alternator Book"
- Revere Comfort Max Model 61021 PFD; manual + auto inflation with safety harness
- West Marine Suspenders PFD; manual inflation with safety harness
- All USCG required Class 3 safety equipment

DOCKAGE AVAILABLE:

The privately-owned dock space in a bayou off Pensacola Bay, FL is available for rent at a below-market rate to the new owner. It is a former commercial shrimp boat landing that was recently reconditioned with new decking, power, water, and security lighting. A row of stand-off mooring piles parallel the dock. It is in one of the best hurricane holes within 50 miles. ([Photo 19](#))

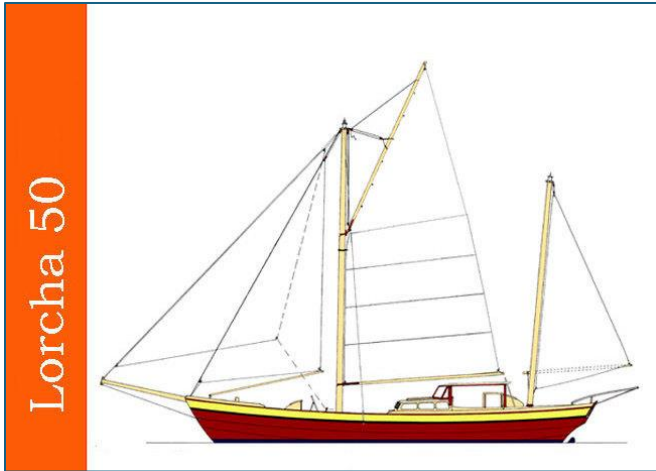


Photo 1 - Lorcha 50 profile ([back](#))



Photo 3 - Dinghy on stern davits ([back](#))



Photo 4 - Aft cabin ([back](#))



Photo 5 - Engine compartment hatch opened ([back](#))



Photo 6 - Cockpit bench/pilot berth ([back](#))



Photo 7 – Helm station (back)

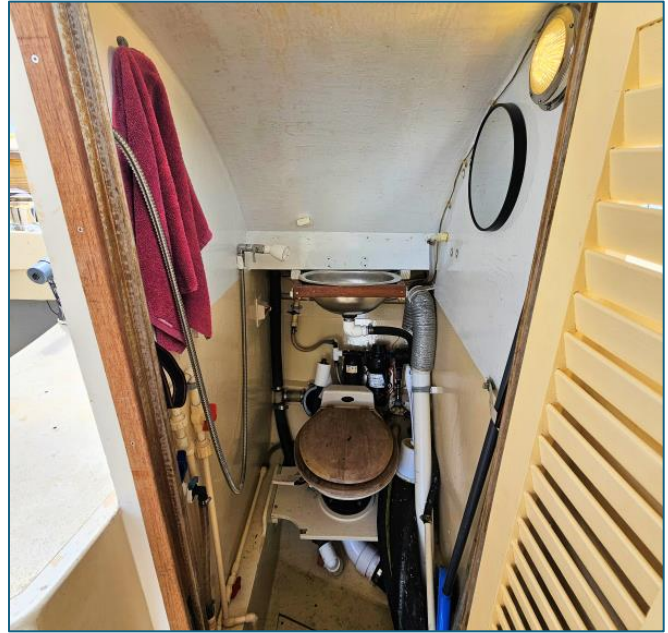


Photo 8 – Head compartment (back)



Photo 9 – Nav station w/ chart table and desk (back)



Photo 10 – Galley (back)



Photo 11 – Sink and port berth ([back](#))

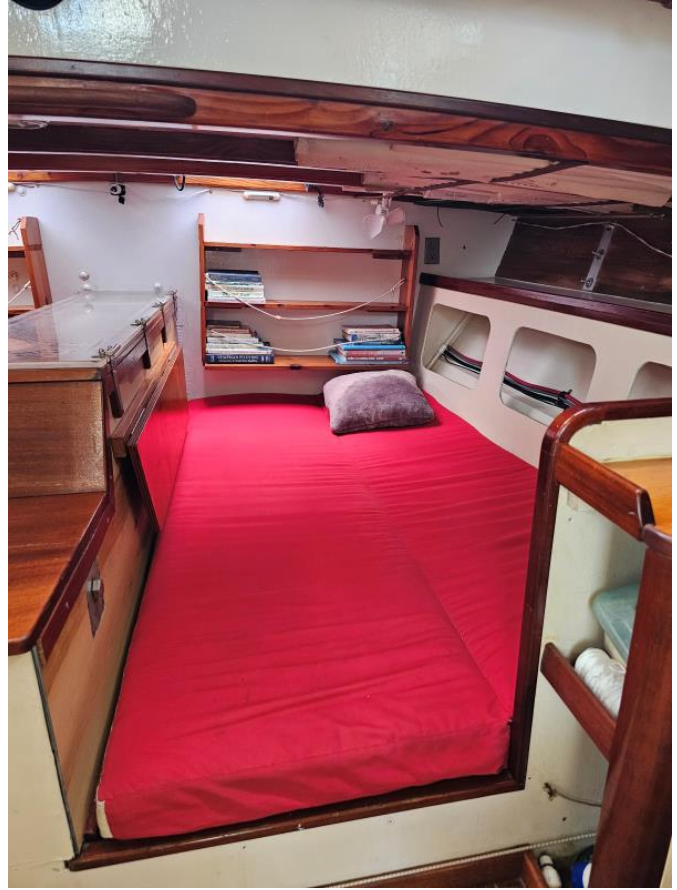


Photo 12 – Starboard berth ([back](#))



Photo 13 – Dorade with skylight ([back](#))



Photo 14 – Port berth, fo'c'sle ([back](#))



Photo 15 – Solar panels on hard dodger ([back](#))



Photo 16 – Chart plotter at nav station ([back](#))



Photo 17 – Chart plotter at helm ([back](#))

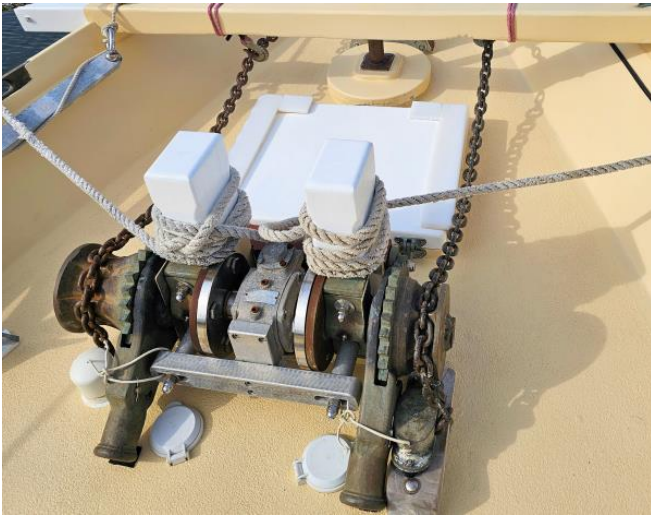


Photo 18 – Windlass with samson posts ([back](#))



Photo 19 – Slip available for rent ([back](#))